

Ahsay Online Backup Manager v9

Oracle Database Backup and Restore Guide for Linux (CLI)

Ahsay Systems Corporation Limited

7 March 2022

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Revision History

Date	Descriptions	Version
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1 Overview

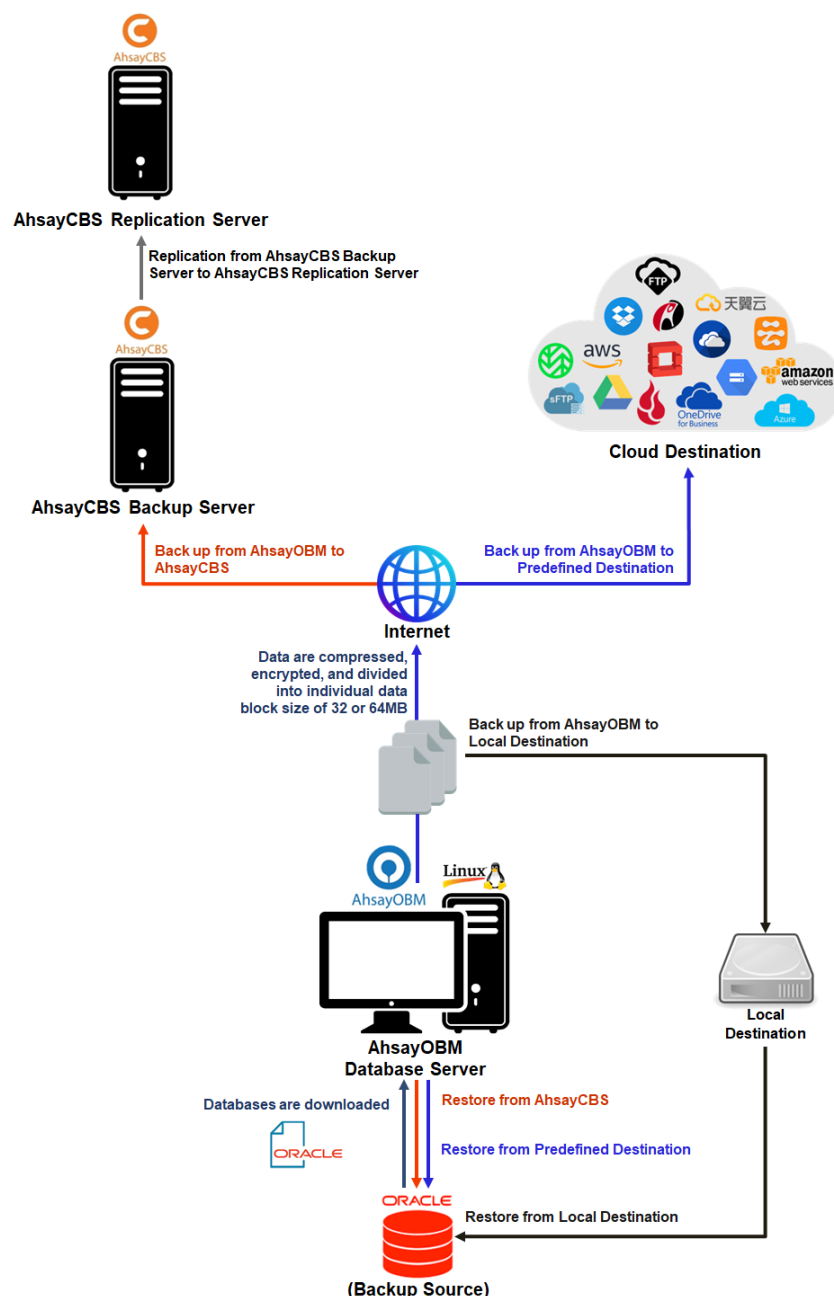
1.1 What is this software?

Ahsay brings you specialized client backup software, namely AhsayOBM, to provide a comprehensive backup solution for your Oracle Database Server. The Oracle Database Server module of AhsayOBM provides you with a set of tools to protect your Oracle Server with both full database and archived log backups while your database is online.

1.2 System Architecture

Below is the system architecture diagram illustrating the major elements involved in the backup process among the Oracle Database Server, AhsayOBM and AhsayCBS.

In this user guide, we will focus on the software installation, as well as the end-to-end backup and restore process using AhsayOBM as a client backup software on using Linux CLI mode.

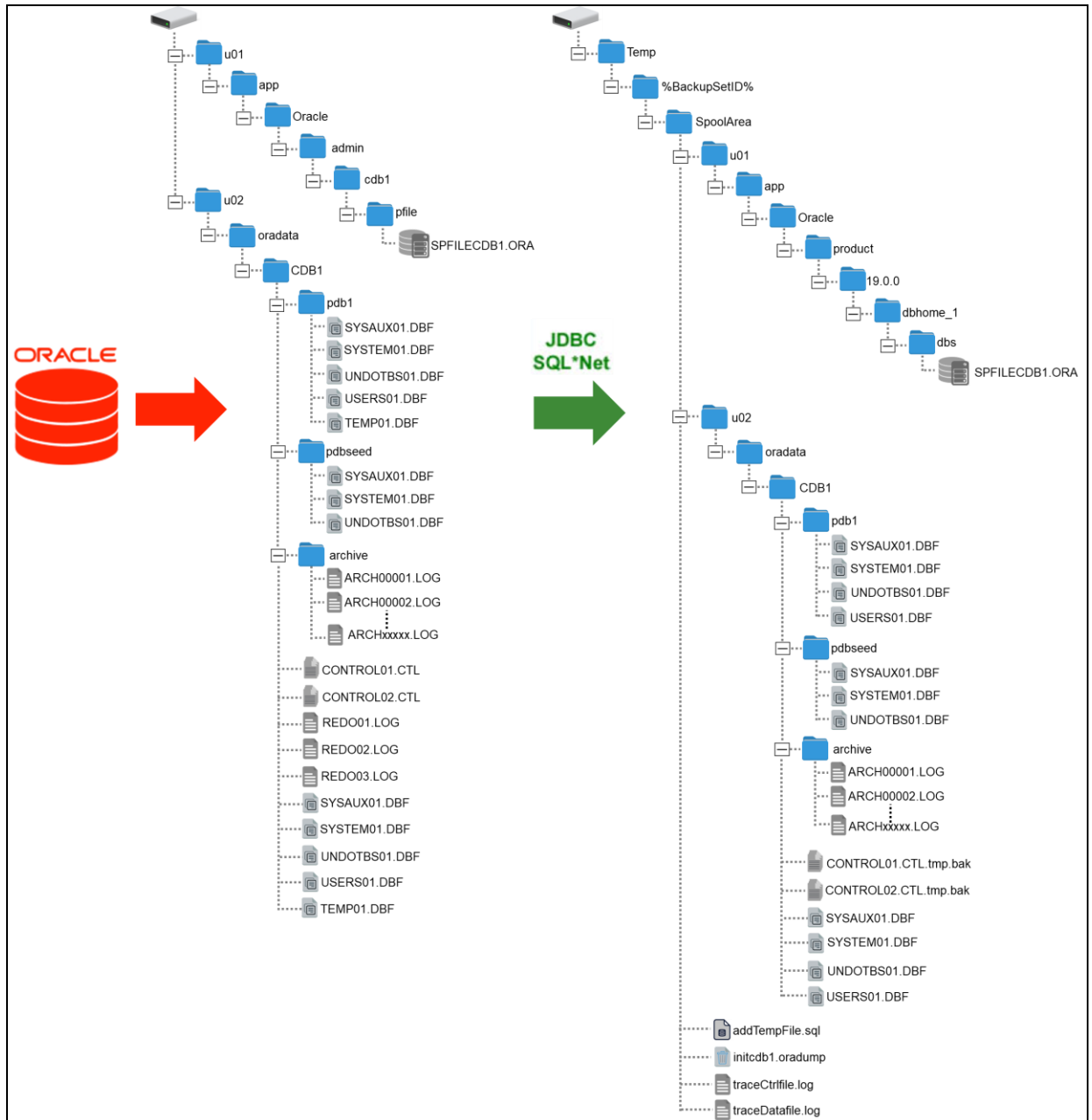


1.3 Oracle Database Backup Mode

Ahsay Oracle database and archived log backups use a spooling method to make a consistent snapshot of the database for backup.

For each database backup job, AhsayOBM will trigger Oracle to spool or make a copy of the following files to the temporary folder:

- Database files (.DBF)
- Archived Log files
- Control files (.CTL)
- Init.ora file



2 Requirements

2.1 Hardware Requirement

Refer to the following article for the list of hardware requirements for AhsayOBM:

[FAQ: Ahsay Hardware Requirement List \(HRL\) for version 9.1 or above](#)

2.2 Software Requirement

Refer to the following article for the list of supported operating systems and application versions:

[FAQ: Ahsay Software Compatibility List \(SCL\) for version 9.1 or above](#)

2.3 AhsayOBM Installation

Make sure the latest version of AhsayOBM is installed directly on the machine where the Oracle database server is hosted.

NOTE

Backup and restore of Oracle database(s) running on a remote machine is not supported.

2.4 AhsayOBM Add-On Module Configuration

Make sure the Oracle Database Server add-on module is enabled on your AhsayOBM user account.

Please contact your backup service provider for more details.

The screenshot displays the 'Backup Client Settings' configuration page in AhsayOBM. The left sidebar contains navigation links: User Profile, Backup Set, Settings, Report, Statistics, and Effective Policy. The main content area has tabs for General, Backup Client Settings (selected), Contact, User Group, and Authentication. Under 'Backup Client Settings', the 'Backup Client' section shows 'AhsayOBM User' selected. The 'Add-on Modules' section lists various backup targets with checkboxes. The 'Oracle Database Server' checkbox is checked and highlighted with a red box. Other modules include Microsoft Exchange Server, MySQL Database Server, Lotus Domino, Windows System Backup, VMware, Microsoft Exchange Mailbox, NAS - QNAP, Mobile (max. 10), Volume Shadow Copy, OpenDirect / Granular Restore, MariaDB Database Server, Microsoft SQL Server, Lotus Notes, Windows System State Backup, Hyper-V, ShadowProtect System Backup, NAS - Synology, Continuous Data Protection, In-File DeltaOnly apply to v8 or before, Office 365 Backup, and Deduplication.

2.5 Backup Quota Requirement

Make sure that your AhsayOBM user account has enough storage quota assigned to accommodate the storage of Oracle database server backup set and retention policy.

2.6 Java Heap Size

The default maximum Java heap size setting on AhsayOBM on Linux is 768MB. For Oracle database backup, it is highly recommended to increase the Java heap size setting to be at least 4096MB to improve backup and restore performance. The actual heap size is dependent on the amount of free memory available on your Oracle server.

For details on how to modify the Java heap size setting of AhsayOBM/AhsayACB, refer to the following article:

[FAQ: How to modify the Java heap size setting of AhsayOBM / AhsayACB?](#)

2.7 Temporary Directory Folder

The Temporary directory folder is used by AhsayOBM during a backup job as the storage of spooled Oracle database(s) and archived log files.

It is strongly recommended that the temporary directory folder is located on a local drive with enough free disk space to be used by the spooled databases and archived log files. The temporary folder should **not** be located on the Oracle Home drive.

NOTE

The calculation of disk space required on the drive where the temporary folder is located is as follows:

$(\text{Total Database Size} * \text{Delta Ratio}) * \text{number of backup destinations} = \text{Minimum Free Space Required}$

Example:

If the default Delta ratio is 50% for in-file delta, and if the total Oracle database size is 1TB and there is only one backup destination, the minimum free space needed on the drive where the temporary directory folder is located = 1.5TB:

1TB = Total Oracle database size

500GB = Total maximum size of incremental or differential delta files generated

To obtain the size of the data files on the Oracle database instance, use the Oracle RMAN REPORT SCHEMA feature and sum up the total "List of Permanent Datafiles" by running the following command.

NOTE: The values shown are just examples and might be different on your Oracle instance.

```
$ export ORACLE_SID=cdb1
$ rman target /

Recovery Manager: Release 19.0.0.0.0 - Production on Fri Nov 6 11:04:21 2020
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.

connected to target database: CDB1 (DBID=981637913)

RMAN> report schema;

using target database control file instead of recovery catalog
Report of database schema for database with db_unique_name CDB1

List of Permanent Datafiles
```

=====				
File	Size (MB)	Tablespace	RB segs	Datafile Name
----	-----	-----	-----	-----
1	920	SYSTEM	YES	/u02/oradata/CDB1/system01.dbf
3	660	SYS_AUX	NO	/u02/oradata/CDB1/sysaux01.dbf
4	335	UNDOTBS1	YES	/u02/oradata/CDB1/undotbs01.dbf
5	270	PDB\$SEED:SYSTEM	NO	/u02/oradata/CDB1/pdbseed/system01.dbf
6	330	PDB\$SEED:S_AUX	NO	/u02/oradata/CDB1/pdbseed/sysaux01.dbf
7	5	USERS	NO	/u02/oradata/CDB1/users01.dbf
8	100	PDB\$SEED:UNDOTBS1	NO	/u02/oradata/CDB1/pdbseed/undotbs01.dbf
9	270	PDB1:SYSTEM	YES	/u02/oradata/CDB1/pdb1/system01.dbf
10	340	PDB1:S_AUX	NO	/u02/oradata/CDB1/pdb1/sysaux01.dbf
11	100	PDB1:UNDOTBS1	YES	/u02/oradata/CDB1/pdb1/undotbs01.dbf
12	5	PDB1:USERS	NO	/u02/oradata/CDB1/pdb1/users01.dbf
List of Temporary Files				
=====				
File	Size (MB)	Tablespace	Maxsize (MB)	Tempfile Name
----	-----	-----	-----	-----
1	132	TEMP	32767	/u02/oradata/CDB1/temp01.dbf
2	36	PDB\$SEED:TEMP	32767	/u02/oradata/CDB1/pdbseed/temp012019-05-10_17-58-06-785-PM.dbf
3	36	PDB1:TEMP	32767	/u02/oradata/CDB1/pdb1/temp01.dbf

2.8 Linux Requirements

Ensure that the following Linux requirements and conditions are met.

Supported OS Version

Oracle 19c

The backup of Oracle 19c is supported on the following OS versions:

- Red Hat Enterprise Linux 7 and 8 (or above)

Oracle 18c

The backup of Oracle 18c is supported on the following OS versions:

- Red Hat Enterprise Linux 6.4 and 7 (or above)

2.9 Oracle Backup Requirements

Ensure that the following requirements and conditions on the Oracle database server are met.

NOTE: Please consult your Oracle database administrator before making any changes.

2.9.1 Oracle Tools

Although the following tools are usually installed by default on all Oracle database installations, ensure that the following tools are installed on the Oracle database server and they are functioning correctly.

- **RMAN (Recovery manager)** - is required by AhsayOBM for both full database and archive log backups.

To verify if RMAN is installed on the Oracle database server and is working properly, run the following command.

Example of RMAN running in Oracle 19c

```
$ export ORACLE_SID=cdb1
$ rman target /

Recovery Manager: Release 19.0.0.0.0 - Production on
Mon Feb 14 11:23:35 2022

Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle and/or its affiliates.
All rights reserved.

connected to target database: CDB1 (DBID=981637913)

RMAN>
```

- **SQL*Plus** – is required by AhsayOBM during Oracle Backup Set creation, backup and restore.

To verify if SQL*Plus is installed on the Oracle database server and is working properly, run the following command `sqlplus / as sysdba`.

Example of SQL*Plus running in Oracle 19c

```
$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Mon Feb 14
11:25:38 2022

Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0
- Production

Version 19.3.0.0.0

SQL>
```

2.9.2 Oracle Internal Process Checking

For the Oracle instance to run smoothly, ensure that the following internal processes are working well:

- **PMON** (Process Monitor)
- **PSP0** (Process Spawner Process)
- **MMAN** (Memory Manager Process)
- **DBW0** (Database Writer)
- **ARC0** (Archive Process)
- **LGWR** (Log Writer)
- **CKPT** (Checkpoint process)
- **SMON** (System Monitor)
- **RECO** (Distributed Recovery Background Process)

To check this, open the Terminal application.

Run the SQLPlus to connect to the Oracle database server. Once connected, use the following SQL query to verify if the internal processes are running.

```
$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Mon Feb 14
11:25:38 2022

Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 -
Production

Version 19.3.0.0.0

SQL> select name, description from v$bgprocess where PADDR <>
'00';

NAME      DESCRIPTION
-----
PMON      process cleanup
CLMN      process cleanup
PSP0      process spawner 0
VKTM      Virtual Keeper of Time process
GEN0      generic0
MMAN      Memory Manager
M004      MMON slave class 1
GEN1      generic1
SCMN
DIAG      diagnosability process
OFSD      Oracle File Server BG
```

NAME	DESCRIPTION
-----	-----
-	
SCMN	
DBRM	DataBase Resource Manager
VKRM	Virtual sKeduler for Resource Manager
SVCB	services background monitor
PMAN	process manager
DIA0	diagnosibility process 0
DBW0	db writer process 0
LGWR	Redo etc.
CKPT	checkpoint
LG00	Log Writer Slave
SMON	System Monitor Process
NAME	DESCRIPTION
-----	-----
-	
LG01	Log Writer Slave
SMCO	Space Manager Process
RECO	distributed recovery
W000	space management slave pool
LREG	Listener Registration
W001	space management slave pool
PXMN	PX Monitor
FENC	IOServer fence monitor
MMNL	Manageability Monitor Process 2
MMON	Manageability Monitor Process
D000	Dispatchers
NAME	DESCRIPTION
-----	-----
-	
S000	Shared servers
TMON	Transport Monitor
M000	MMON slave class 1
M002	MMON slave class 1
TT00	Redo Transport
ARC0	Archival Process 0
TT01	Redo Transport
ARC1	Archival Process 1
ARC2	Archival Process 2
ARC3	Archival Process 3
TT02	Redo Transport
NAME	DESCRIPTION
-----	-----
-	
AQPC	AQ Process Coord
W002	space management slave pool
CJQ0	Job Queue Coordinator
P000	Parallel query slave
P001	Parallel query slave

```

P002 Parallel query slave
P003 Parallel query slave
P004 Parallel query slave
P005 Parallel query slave
P006 Parallel query slave
P007 Parallel query slave

NAME DESCRIPTION
-----
-
W003 space management slave pool
M001 MMON slave class 1
W004 space management slave pool
Q002 QMON MS
W005 space management slave pool
W006 space management slave pool
W007 space management slave pool
Q004 QMON MS
M005 MMON slave class 1
Q005 QMON MS

65 rows selected.

SQL>

```

2.9.3 Supported Oracle Database Server Version

AhsayOBM supports the following version of Oracle database server:

- **Oracle 19c**
- **Oracle 18c**

To verify if the Oracle database server version is supported by AhsayOBM, use the following SQL query.

Oracle 19c

```

$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Thu Nov 5
11:32:52 2020

Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 -
Production

Version 19.3.0.0.0

SQL>

```

Oracle 18c

```
$ sqlplus / as sysdba

SQL*Plus: Release 18.0.0.0.0 - Production on Mon Jan 4
11:06:36 2021

Version 18.3.0.0.0

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Connected to:

Oracle Database 18c Enterprise Edition Release 18.0.0.0.0 -
Production

Version 18.3.0.0.0

SQL>
```

2.9.4 System Identifier (SID)

Make sure the System Identifier (SID) is correct by using the following SQL query.

```
SQL> select instance from v$thread;

INSTANCE
-----
-
cdb1

SQL>
```

NOTE

The instance shown is just an example. The SID may be different on your Oracle instance.

Another way to verify the SID is by checking the **init.ora** file. Go to the **/u01/app/oracle/admin/cdb1/pfile** directory and open the **init.ora** file using a text editor (e.g. vi).

```
#####
# Database Identification
#####
db_name="cdb1"
```

2.9.5 Oracle_Home Path

Oracle 19c

The Oracle_Home path can be obtained by using the following SQL query. The Oracle_Home path for Oracle 19c is “/u01/app/oracle/product/19.0.0/dbhome_1”.

```
SQL> SELECT file_spec FROM DBA_LIBRARIES WHERE library_name =  
'DBMS_SUMADV_LIB';  
  
FILE_SPEC  
-----  
/u01/app/oracle/product/19.0.0/dbhome_1/lib/libqsmashr.so  
  
SQL>
```

NOTE

The directory path shown is just an example. The Oracle_Home path may be different on your Oracle instance.

Another way to verify the Oracle_Home path is by checking the **init.ora** file. Go to the **/u01/app/oracle/admin/cdb1/pfile** directory and open the **init.ora** file using a text editor (e.g., vi).

```
#####  
# File Configuration  
#####  
control_files=("/u01/app/oracle/oradata/CDB1/control01.ctl", "/u01/app/oracle  
oradata/cdb1/control02.ctl")  
#####
```

Oracle 18c

The Oracle_Home path can be obtained by using the following SQL query. The Oracle_Home path for Oracle 18c is “/u01/app/oracle/product/18.0.0/dbhome_1”.

```
SQL> SELECT file_spec FROM DBA_LIBRARIES WHERE library_name =  
'DBMS_SUMADV_LIB';  
  
FILE_SPEC  
-----  
/u01/app/oracle/product/18.0.0/dbhome_1/lib/libqsmashr.so  
  
SQL>
```

NOTE

The directory path shown is just an example. The Oracle_Home path may be different on your Oracle instance.

Another way to verify the Oracle_Home path is by checking the **init.ora** file. Go to the **/u01/app/oracle/admin/cdb1/pfile** directory and open the **init.ora** file using a text editor (e.g., vi).

```
#####  
# File Configuration  
#####  
control_files=("/u01/app/oracle/oradata/CDB1/control01.ctl", "/u01/app/oracle  
oradata/cdb1/control02.ctl")  
#####
```

WARNING

The value of the Oracle_Home path in init.ora file needs to match the value obtained from the SQL query. If the value does not match, please contact the Oracle database administrator for further assistance.

2.9.6 Database Status

Ensure that the status of Oracle instance is "Open". To check, use the following query.

```
SQL> select instance_name, status from v$instance;
```

INSTANCE_NAME	STATUS
-----	-----
-	
cdb1	OPEN

```
SQL>
```

2.9.7 Archived Log Mode

Ensure that the database instance is in Archived Log mode. To check, use the following command.

```
SQL> archive log list;
```

Database log mode	Archive Mode
Automatic archival	Enabled
Archive destination	/u01/app/oracle/product/19.0.0/dbhome_1/dbs/arch
Oldest online log sequence	42
Next log sequence to archive	44
Current log sequence	44

```
SQL>
```

NOTE

The values shown are just an example and might be different on your Oracle instance.

2.9.8 Java Installation

Java must be installed on the Oracle Database. To check if Java is installed, use the following SQL query. The status of the **JServer JAVA Virtual Machine** and **Oracle Database Java Packages** should be "VALID".

```
SQL> select comp_name, status from dba_registry;
```

COMP_NAME	STATUS
Oracle Database Catalog Views	VALID
Oracle Database Packages and Types	VALID
Oracle Real Application Clusters	OPTION OFF

COMP_NAME	STATUS
JServer JAVA Virtual Machine	VALID
Oracle XDK	VALID
Oracle Database Java Packages	VALID

COMP_NAME	STATUS
OLAP Analytic Workspace	VALID
Oracle XML Database	VALID
Oracle Workspace Manager	VALID

COMP_NAME	STATUS
Oracle Text	VALID
Oracle Multimedia	VALID
Spatial	VALID

COMP_NAME	STATUS
Oracle OLAP API	VALID
Oracle Label Security	VALID

```

Oracle Database Vault                                VALID

15 rows selected.

SQL>

```

2.9.9 JAVASYSPRIV Permission for Oracle System Account

The Oracle **system** account is used by AhsayOBM to connect to the Oracle database server to authenticate the backup and restore process. The following permission must be assigned to the system account. Use the following SQL query to assign.

```

SQL> select * from DBA_ROLE_PRIVS where
upper(grantee)='SYSTEM';

```

GRANTEE	GRANTED_ROLE	ADM	DEL	DEF	COM	INH
SYSTEM	JAVASYSPRIV	NO	NO	YES	NO	NO
SYSTEM	DBA	NO	NO	YES	YES	NO

GRANTEE	GRANTED_ROLE	ADM	DEL	DEF	COM	INH
SYSTEM	AQ_ADMINISTRATOR_ROLE	YES	NO	YES	YES	NO

```

SQL>

```

If not, grant javasyspriv to the system account by using the following SQL query.

```

SQL> grant javasyspriv to system;

Grant succeeded.

SQL>

```

2.9.10 SYSDBA Privileges for Oracle System Account

To check if the system account has **sysdba** privileges, use the following SQL query.

```

SQL> select * from v$pwfile_users where sysdba='TRUE';

```

USERNAME	SYSDB	SYSOP	SYSAS	SYSBA	SYSDBG	SYSKM	ACCOUNT_STATUS
SYSTEM	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	OPEN

```

SQL>

```

If not, grant **sysdba** to the system account using the following SQL query.

Oracle 19c and Oracle 18c

```

SQL> grant sysdba to system container=ALL;

Grant succeeded.

SQL>

```

2.9.11 TNS Listener Service

TNS listener service must be started to allow connections to the Oracle database server. To check if the TNS listener service is running, use the `lsnrctl status` command.

If the TNS listener service is not started, use the `lsnrctl start` command to start the service.

Example: A running TNS Listener service on Oracle 19c.

```
$ lsnrctl status

LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 05-NOV-
2020 11:33:44

Copyright (c) 1991, 2019, Oracle. All rights reserved.

Connecting to
(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=oracle19c.local)(POR
T=1521)))
STATUS of the LISTENER
-----
Alias                     LISTENER
Version                   TNSLSNR for Linux: Version
19.0.0.0.0 - Production
Start Date                10-FEB-2022 17:29:35
Uptime                    3 days 18 hr. 16 min. 15 sec
Trace Level               off
Security                  ON: Local OS Authentication
SNMP                      OFF
Listener Parameter File   /u01/app/oracle/product/19.0.0/dbhome_1/network/admin/listener
.ora
Listener Log File         /u01/app/oracle/diag/tnslsnr/oracle19c/listener/alert/log.xml
Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=oracle19c.local)(POR
T=1521)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521)))
Services Summary...
Service "86b637b62fdf7a65e053f706e80a27ca" has 1 instance(s).
  Instance "cdb1", status READY, has 1 handler(s) for this
service...
Service "8886b84fb1e0709de053631e100a76ed" has 1 instance(s).
  Instance "cdb1", status READY, has 1 handler(s) for this
service...
Service "cdb1" has 1 instance(s).
  Instance "cdb1", status READY, has 1 handler(s) for this
service...
Service "cdb1XDB" has 1 instance(s).
  Instance "cdb1", status READY, has 1 handler(s) for this
service...
Service "pdb1" has 1 instance(s).
```

```
Instance "cdbl", status READY, has 1 handler(s) for this
service...
The command completed successfully
```

NOTE

The values shown are just an example and might be different on your Oracle instance.

2.9.12 Localhost is Resolvable

Verify if the localhost IP 127.0.0.1 on the Oracle database server is resolvable using the **ping** command as this will be the IP address that AhsayOBM will use to connect to the Oracle instance.

```
# ping -c4 127.0.0.1

PING 127.0.0.1 (127.0.0.1) 56(84) bytes of data.

64 bytes from 127.0.0.1: icmp_seq=1 ttl=64 time=0.043 ms
64 bytes from 127.0.0.1: icmp_seq=2 ttl=64 time=0.043 ms
64 bytes from 127.0.0.1: icmp_seq=3 ttl=64 time=0.032 ms
64 bytes from 127.0.0.1: icmp_seq=4 ttl=64 time=0.038 ms

--- 127.0.0.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 2999ms
rtt min/avg/max/mdev = 0.032/0.039/0.043/0.004 ms
```

2.9.13 Oracle Port Number

The default Oracle port number is **1521**. To check, use the **netstat** and **tnsping** commands to verify the actual port number.

NETSTAT

```
# netstat -pan|more
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name
tcp 0 0 0.0.0.0:111 0.0.0.0:* LISTEN 1/systemd
tcp 0 0 192.168.122.1:53 0.0.0.0:* LISTEN 6054/dnsmasq
tcp 0 0 0.0.0.0:22 0.0.0.0:* LISTEN 5218/sshd
tcp 0 0 127.0.0.1:631 0.0.0.0:* LISTEN 5220/cupsd
tcp 0 0 127.0.0.1:25 0.0.0.0:* LISTEN 5513/master
tcp 0 0 10.16.30.99:49829 10.16.30.99:1521 ESTABLISHED
6523/ora_lreg_cdbl
tcp6 0 0 :::31181 :::* LISTEN
6535/ora_d000_cdbl
tcp6 0 0 :::111 :::* LISTEN 1/systemd
tcp6 0 0 :::50000 :::* LISTEN 7140/bschJW
tcp6 0 0 :::1521 :::* LISTEN 6965/tnslsnr
tcp6 0 0 :::22 :::* LISTEN 5218/sshd
tcp6 0 0 :::1:631 :::* LISTEN 5220/cupsd
tcp6 0 0 127.0.0.1:60024 :::* LISTEN 7140/bschJW
tcp6 0 0 :::1:25 :::* LISTEN 5513/master
tcp6 0 0 10.16.30.99:1521 10.16.30.99:49829 ESTABLISHED 6965/tnslsnr
```

NOTE

The values shown are just an example and might be different on your Oracle instance.

TNSPING

```
$ tnsping 127.0.0.1

TNS Ping Utility for Linux: Version 19.0.0.0.0 - Production on
06-NOV-2020 10:18:56

Copyright (c) 1997, 2019, Oracle. All rights reserved.

Used parameter files:
/u01/app/oracle/product/19.0.0/dbhome_1/network/admin/sqlnet.o
ra

Used EZCONNECT adapter to resolve the alias
Attempting to contact
(DESCRIPTION=(CONNECT_DATA=(SERVICE_NAME=)) (ADDRESS=(PROTOCOL=
tcp) (HOST=127.0.0.1) (PORT=1521)))
OK (0 msec)
```

2.10 Limitations

1. For Oracle database server on Linux CLI environment, AhsayOBM does not fully support all restore options, i.e. Restore to Alternate location is not available.
If possible, it is recommended to use AhsayOBM Linux GUI which supports restore to:
 - Original location
 - Alternate location; and
 - Restore Raw File
2. AhsayOBM does not support Oracle Express Edition or Oracle XE.
3. Backup and restore of Oracle database(s) running on a remote machine is not supported.
4. AhsayOBM Oracle database module only supports backup and/or restore of standalone Oracle installations. The following advanced Oracle database setups are not supported:
 - Clusterware or RAC (Real Application Clusters)
 - ASM (Automatic Storage Management)
 - Data Guard etc.
5. An AhsayOBM Oracle database backup set supports the backup and restore of one Oracle instance. For Oracle database server's setup with multiple instances, a separate backup set is required for each instance.
6. To recover a full Oracle database instance, the following items must be selected in the backup source:
 - Oracle Database Server must be selected.
 - All databases including **SYS_AUX**, **SYSTEM**, **UNDOTBS1**, **USERS** and related application databases except for "TEMP" must be selected in the backup source when creating the backup set. Otherwise, without a backup of these databases, a full Oracle database instance recovery will NOT be possible.

NOTE

Even if the "TEMP" is selected in the backup source, this database will be skipped during a backup job.

2.11 Best Practices and Recommendations

1. To enable a full Oracle database instance recovery, all databases including **SYSAUX**, **SYSTEM**, **UNDOTBS1**, **USERS** and related application databases except for “TEMP” must be selected in the backup source when creating the backup set. Otherwise, without a backup of these databases, a full Oracle database instance recovery will NOT be possible.
2. Full database backup or incremental / differential database backups should be scheduled when system activity is low to achieve the best possible performance and to minimize the impact on the database server performance (for example: scheduled to run on weekends).
3. For **Archived Log backups**, the backup frequency should be dependent on the number of transactions or activity on the database. Databases with more transaction should run archived log backup more frequently (for example: instead of a daily backup, it should be run multiple times a day).
4. To provide **maximum data protection** and **flexible restore options**, it is recommended to configure:
 - At least one offsite or cloud destination
 - At least one local destination for fast recovery

5. Perform **test restores** periodically to ensure that your backup is set up and data are backed up properly.

Performing recovery tests can also help identify potential issues or gaps in your recovery plan. It's important that you do not try to make the test easier, as the objective of a successful test is not to demonstrate that everything is flawless. There might be flaws identified in the plan throughout the test and it is important to identify those flaws.

6. The **Restore Raw File** option is for advanced Oracle database administrators and should only be used if you have in-depth knowledge and understanding of Oracle database engine, Oracle database schema, knowledge of the database server and network infrastructure. Therefore, it is not recommended to use this restore option as there is need to utilize additional Oracle techniques and scripts to facilitate a manual database restore.

Please refer to the following article of Oracle Database Backup and Recovery User's Guide for details:

Oracle 19c

<https://docs.oracle.com/en/database/oracle/oracle-database/19/bradv/index.html>

Oracle 18c

<https://docs.oracle.com/en/database/oracle/oracle-database/18/bradv/index.html>

7. To ensure an optimal backup/restoration performance, it is highly recommended to set the temporary directory folder to a local disk location with sufficient free disk space. It must **not** be on the location of the Oracle Home drive.

3 Creating an Oracle Database Backup Set

Startup AhsayOBM.

For instructions on how to do this refer to Chapter 5 of the [AhsayOBM v9 Quick Start Guide for Linux \(CLI\)](#).

There are two options to create an Oracle Database Backup Set for Linux.

• [Using AhsayCBS web console](#)

For backup set creation on AhsayCBS web console, most backup set preferences may be configured using AhsayCBS except the following:

- backup set encryption key settings
- Oracle login password

After the backup set preferences are setup on the AhsayCBS web console, to complete the backup set creation process, the **RunConfigurator.sh** script will need to be used on the Oracle database server machine to do the following:

- to set up the backup set encryption key settings
- to export/import the backupSet.xml file to set up the Oracle login password

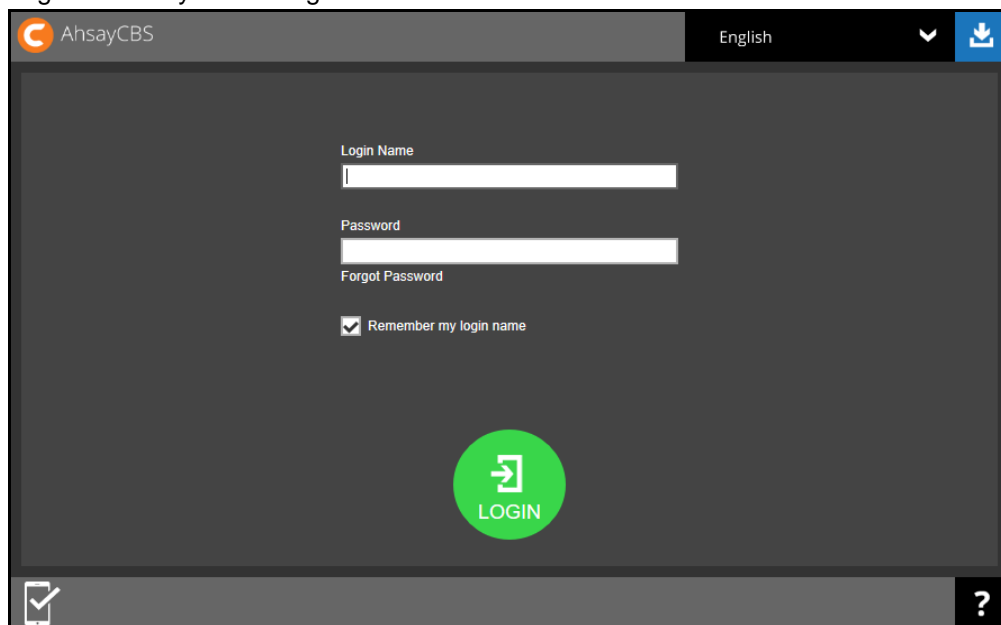
• [Using command line](#)

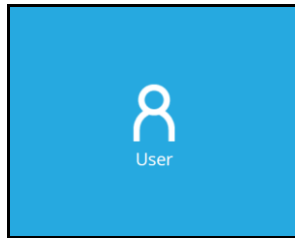
For backup set creation using command line, most backup set preferences may be configured using the **backupSet.xml** file.

To complete the backup set creation process after successfully importing the backupSet.xml file, the RunConfigurator.sh script will need to be used on the Oracle database server machine to set up the backup set encryption key settings.

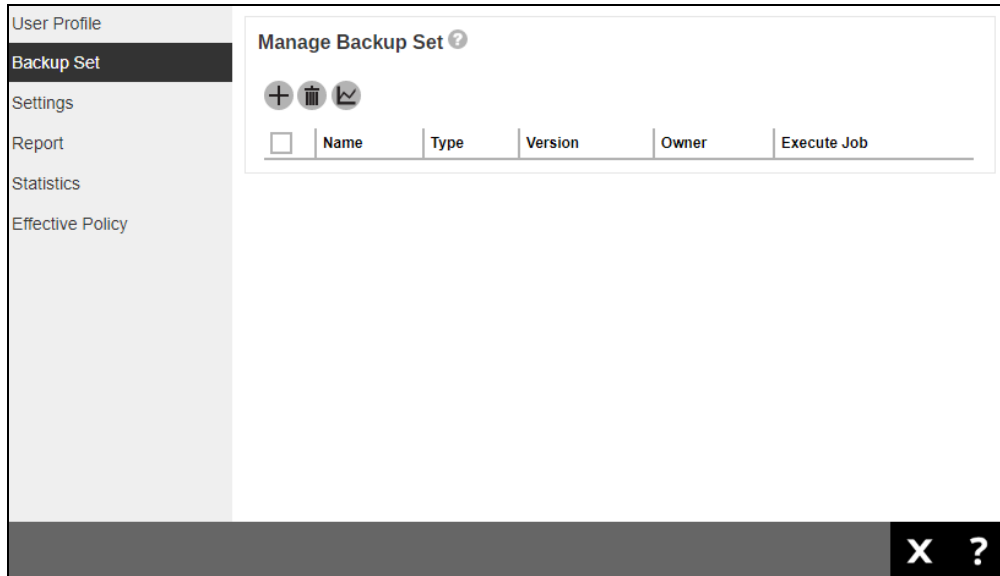
3.1 Create an Oracle Database Backup Set using AhsayCBS

1. Log in to AhsayCBS and go to **User**.



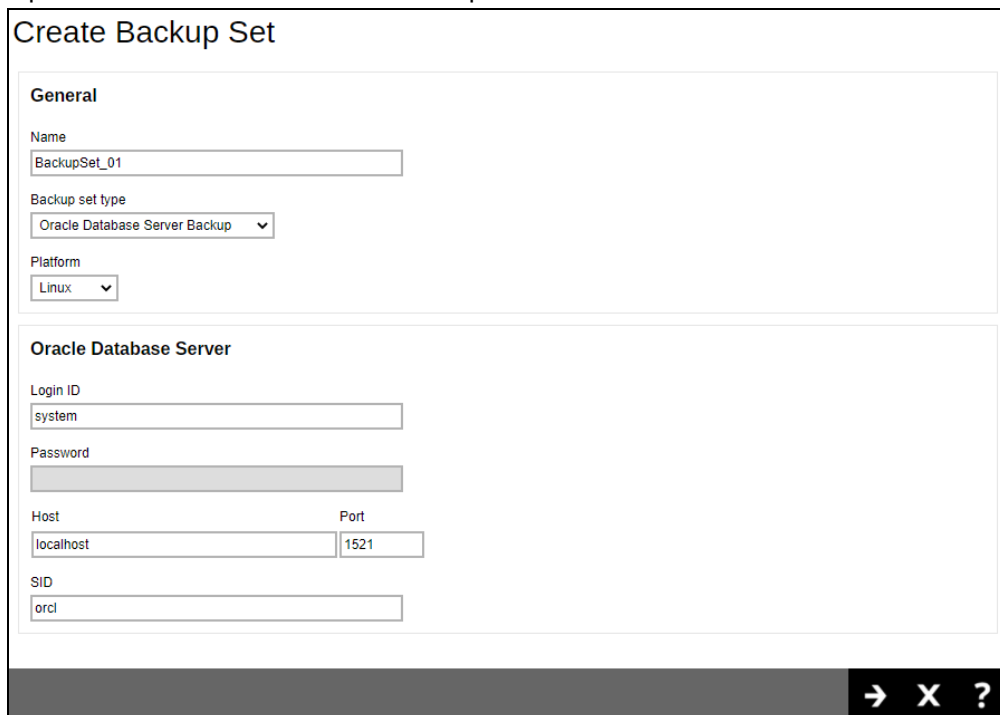


2. Go to **Backup Set** then click  to create a backup set.



<input type="checkbox"/>	Name	Type	Version	Owner	Execute Job
--------------------------	------	------	---------	-------	-------------

3. Enter a **Name** for the backup set to be created. Select “Oracle Database Server Backup” as the **Backup set type**. Select “Linux” as the **Platform**. The default **Login ID** is “system”. Update the **Host** and **Port**. Default settings for these are ‘localhost’ and ‘1521’ respectively. Input the Oracle **SID** then click **Next** to proceed.



General

Name: BackupSet_01

Backup set type: Oracle Database Server Backup

Platform: Linux


Oracle Database Server

Login ID: system

Password: [Redacted]


Host: localhost Port: 1521

SID: orcl


4. Add the backup source in the **Other Selected Source** by clicking . Keep doing this until all the sources are entered. To back up all databases, enter "Oracle Database Server" in the **Other Selected Source**.

Backup Source



Other Selected Source




<input type="checkbox"/>	Path
<input type="checkbox"/>	Oracle Database Server

5. To exclude a source, you can add it under **Deselected Source** by clicking . Keep doing this until all the excluded sources are entered. Click **Next** to proceed.

Deselected Source

<input type="checkbox"/>	Path
<input type="checkbox"/>	Oracle Database Server/PDB\$SEED/TEMP
<input type="checkbox"/>	Oracle Database Server/TEMP
<input type="checkbox"/>	Oracle Database Server/PDB1/TEMP


NOTE

All databases including **SYSAUX**, **SYSTEM**, **UNDOTBS1**, **USERS** and related application databases except for "TEMP" must be selected in the backup source when creating the backup set. Otherwise, without a backup of these databases, a full Oracle database instance recovery will NOT be possible.



Even if the "TEMP" is selected in the backup source, this database will be skipped during a backup job.

6. A backup schedule for a backup job to run automatically at your specified time interval can be configured. The backup schedule is enabled by default. If you do not want to create a backup schedule, you can turn it off by sliding the lever to the left.

Schedule

Run scheduled backup for this backup set 

Manage schedule

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	Tablespace Backup Schedule	Weekly
<input type="checkbox"/>	Archived Redo Log Backup Schedule	Weekly

Run scheduled backup on computers named

There are two default backup schedules:

- Tablespace Backup Schedule
- Archived Redo Log Backup Schedule

Tablespace Backup Schedule – This backup schedule will automatically run weekly every Friday at 23:00.

Backup Schedule

Client version < 8.3.3.20 does not support periodic schedule, periodic schedule will work as normal schedule.

Details

Name

Backup Type
☒ Database ☐ Log

Type

Backup on these days of the week
☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☒ Fri ☐ Sat

Start backup
at :

Stop

☒ Run Retention Policy after backup

Archived Redo Log Backup Schedule – This backup schedule will automatically run weekly every Monday, Tuesday, Wednesday and Thursday at 23:00.

Backup Schedule

Client version < 8.3.3.20 does not support periodic schedule, periodic schedule will work as normal schedule.

Details

Name

Backup Type
☐ Database ☒ Log

Type

Backup on these days of the week
☐ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☐ Fri ☐ Sat

Start backup
at :

Stop



☒ Run Retention Policy after backup

To change the backup schedule settings of an existing schedule, double-click the schedule to be modified. Otherwise, click **Next** to proceed.

7. In the **Destination** window, select the **Backup Mode** then click  to add a backup storage destination.

Destination

Backup Mode
Sequential ▾


☐ Name


Select your desired destination, it could be one or both displayed destinations. Tick the checkbox to select and click the **Add** button.




Add Destination

Add predefined destination to this backup set below. If there are no predefined destinations created, you need to go to "AhsayCBS > Backup Server > Basic > Predefined Destination" and create the appropriate destinations first.

☐ Name

☐  AhsayCBS



☐  GoogleDrive-1


Click **Save**.





Destination

Backup Mode
Sequential ▾

☐ Name

☐  AhsayCBS

8. Click on the created backup set.

User Profile

Backup Set


Settings

Report

Statistics

Effective Policy

Manage Backup Set

<input type="checkbox"/>	Name	Type	Version	Owner	Execute Job
<input type="checkbox"/>	BackupSet_01 (1645495782697)		--	--	--

9. Go to **Others** and input the path of your temporary directory. It is recommended to check the box beside **Remove temporary files after backup** to make sure the spooled database files are cleaned up after each backup job to free up space on the temporary drive. Otherwise, if the temporary drive runs out of space, the database backup job will not run.

General

Source

Backup Schedule

Destination

Deduplication

Retention Policy

Command Line Tool

Bandwidth Control

IP Allowed for Restore

Others

Temporary Directory

Temporary directory for storing backup files

/temp

☒ Remove temporary files after backup

Archived Log Deletion

Delete the archived logs after backup

Delete archived logs that are older than the following days

60 days

Compressions

Select compression type

Fast with optimization for local

Encryption

Encryption settings have not been configured yet

10. Optional: **Archived Log Deletion**

The deletion of the archived logs is enabled by default and archived logs more than 60 days are deleted from the Oracle database instance. This process is done after every databases and archived log backup job.

For example, if the Oracle database instance generates a lot of archived log files, you may want to reduce the number of days before they are deleted.

General

Source

Backup Schedule

Destination

Deduplication

Retention Policy

Command Line Tool

Bandwidth Control

IP Allowed for Restore

Others

Temporary Directory

Temporary directory for storing backup files

/temp

☒ Remove temporary files after backup

Archived Log Deletion

Delete the archived logs after backup

Delete archived logs that are older than the following days

60 days

Compressions

Select compression type

Fast with optimization for local

Encryption

Encryption settings have not been configured yet

11. Optional: Select your preferred **Compression** type. The compression type is set to **Fast with optimization for local** by default. To change the compression type, go to **Others > Compressions**.

The screenshot shows the 'Others' configuration tab in the Ahsay Online Backup Manager. The 'Compressions' section is highlighted with a red box. It contains a dropdown menu for 'Select compression type' with the following options: 'Fast with optimization for local' (selected), 'No Compression', 'Normal', 'Fast (Compressed size larger than normal)', and 'Fast with optimization for local'. Below the dropdown, a message states 'Encryption settings have not been configured yet'. The left sidebar shows other tabs: General, Source, Backup Schedule, Destination, Deduplication, Retention Policy, Command Line Tool, Bandwidth Control, IP Allowed for Restore, and Others. The top right section shows 'Temporary Directory' set to '/temp' and 'Archived Log Deletion' set to 'Delete the archived logs after backup' with a 60-day retention period.

Select from the following:

- No Compression
- Normal
- Fast (Compressed size larger than normal)
- Fast with optimization for local

12. Click **Save** to apply the changes.

13. Open ssh session in the Linux machine and execute the **RunConfigurator.sh** script. The Login Menu will be displayed. Select **(1) . Login** then press Enter to log in. Input your Login Name and Password.

```
# cd /usr/local/obm/bin
# sh RunConfigurator.sh

Startup Ahsay Online Backup Manager ...
Config file found

Login Menu
-----
(1) . Login
(2) . Change Network Settings
(3) . Forgot Password
(4) . Quit
-----

Your Choice: 1
```

```
Login Name : user
Password : *****
```

```
Please wait while verifying user account with server...
Your profile has been downloaded and updated.
```

14. Select (1). *List Backup Sets* to list the backup set created in AhsayCBS.

```
Main Menu
```

```
-----
```

```
(1). List Backup Sets
(2). Delete Backup Set
(3). Export Backup Set Settings to XML
(4). Import Backup Set Settings from XML
(5). Generate new Backup Set Settings Template
(6). Change Language [English]
(7). Update Profile Settings
(8). Quit
```

```
-----
```

```
Your Choice: 1
```

15. Select the backup set to show the details by selecting (1). *Name of your backup set*. Then set the encryption setting for the backup set. Example, option (2) *User password* is selected as the encryption key for this backup set

```
Select a Backup Set to show more details
```

```
-----
```

```
(1). BackupSet_01
```

```
-----
```

```
Your Choice: 1
```

```
Encryption setting has not been defined for backup set
"BackupSet_01"
```

```
Do you want to set the encryption setting for this backup set?
(Y/N) ? Y
```

```
Enable Encryption (Y/N) ? Y
```

```
Choose Encryption Type
```

```
-----
```

```
(1). Default
(2). User password
(3). Custom
```

```
-----
```

```
Your Choice: 2
```

```
Name                : BackupSet_01
Owner               : oracle19c.local
Type                : Oracle Database Server
Selected Source     : Oracle Database Server
Deselected Source  : Oracle Database Server/PDB$SEED/TEMP
```

```

Deselected Source      : Oracle Database Server/TEMP
Deselected Source      : Oracle Database Server/PDB1/TEMP
Destination Name        : AhsayCBS, Type: OBS
Encryption Key          : abc123$%
Encryption Algorithm    : AES
Encryption Mode         : CBC
Encryption Key Length   : 256

Press Enter to continue...

```

16. Export the backup set to XML by selecting *(3). Export Backup Set Setting to XML.*

```

Main Menu
-----

(1). List Backup Sets
(2). Delete Backup Set
(3). Export Backup Set Settings to XML
(4). Import Backup Set Settings from XML
(5). Generate new Backup Set Settings Template
(6). Change Language [English]
(7). Update Profile Settings
(8). Quit

-----

Your Choice: 3

Choose your backup set to generate XML file
-----

(1). BackupSet_01
-----

Your Choice: 1

XML file successfully exported to /root/.obm/config/backupSet.xml

```

17. Exit from the Main Menu then edit the XML file by using an editor (e.g. vi). Add the Value data for **Oracle Password** to the file then save. Example, the password for system is **abc123**.

```

# cd /root/.obm/config
# vi backupSet.xml

<!-- Oracle Password -->
    <Value data="abc123" name="Password" type="string" />

```

18. Import the backup set by selecting *(4). Import Backup Set Setting from XML.* Confirm overwrite of file.

```

Main Menu
-----

(1). List Backup Sets
(2). Delete Backup Set
(3). Export Backup Set Settings to XML

```



```
(4). Import Backup Set Settings from XML
(5). Generate new Backup Set Settings Template
(6). Change Language [English]
(7). Update Profile Settings
(8). Quit
```

Your Choice: 4

Reading xml...

Reading xml...Done

Verifying destination 'AhsayCBS'...

Backup Set 'BackupSet_01' already exist. Confirm overwrite? (Y/N) ?
Y

XML imported, uploading to server...

XML successfully uploaded to server

19. Log in to AhsayCBS web console to check if Oracle Password and Encryption setting were successfully added. To check for the password, go to **General > Password**.

The screenshot shows the AhsayCBS web console interface. On the left is a sidebar with a 'General' tab selected. The main content area is divided into two sections: 'General' and 'Oracle Database Server'. The 'General' section contains fields for ID (1644487303408), Name (BackupSet_01), Owner (localhost.localdomain), Platform (Linux), Backup set type (Oracle Database Server Backup), and others. The 'Oracle Database Server' section contains fields for Login ID (SYSTEM), Password (highlighted with a red box), Host (localhost), Port (1521), and SID (orcl). At the bottom right of the console, there are 'X' and '?' icons.

To check for the encryption setting, go to **Others > Encryption**.

3.2 Create an Oracle Database Backup Set using command line

1. To create an Oracle database backup set, select *(5). Generate new Backup Set Settings Template* from the menu.

```

Main Menu
-----

(1). List Backup Sets
(2). Delete Backup Set
(3). Export Backup Set Settings to XML
(4). Import Backup Set Settings from XML
(5). Generate new Backup Set Settings Template
(6). Change Language [English]
(7). Update Profile Settings
(8). Quit

-----

Your Choice: 5

```

2. Select *(4). Oracle Database Server* to generate an Oracle database backup set template file to `/root/.obm/config` directory.

```

Choose a template from a backup set type
-----

(1). File
(2). MySQL Database
(3). MariaDB
(4). Oracle Database Server
(5). IBM Domino

-----

```

```

Your Choice: 4

XML file successfully exported to /root/.obm/config/backupSet.xml

Main Menu
-----

(1). List Backup Sets
(2). Delete Backup Set
(3). Export Backup Set Settings to XML
(4). Import Backup Set Settings from XML
(5). Generate new Backup Set Settings Template
(6). Change Language [English]
(7). Update Profile Settings
(8). Quit

-----

Your Choice:
```

3. Configuring Oracle Database Backup Set Settings.

To configure the Oracle database backup set setting, you need to edit the backupSet.xml file: `/root/.obm/config/backupSet.xml` using a text editor (e.g. vi).

You can either quit the **RunConfigurator.sh** script or open a new ssh session to edit the backupSet.xml file.

Please refer to Appendix [A](#) and [B](#) for details and examples on how to configure backup sets using the **backupSet.xml** file.

NOTES

- i. Before importing the backupSet.xml file, please remove any unused destinations and backup schedule settings. Otherwise, the following error will be displayed **"Failed to import XML file (Reason: Value of name is empty!)"** when trying to import the backupSet.xml file.
- ii. Set up of the following cloud storage destinations: OneDrive, OneDrive for Business, DropBox and Google Drive are not supported in Linux CLI environment, as these cloud storage destinations require authentication using a web browser.

4. Importing the updated backupSet.xml file to AhsayOBM

After you have edited the backupSet.xml file with your chosen backup settings, you need to import the settings back to AhsayOBM, so they can be uploaded to AhsayCBS backup server to create the backup set.

For example: to create a new Oracle database backup set called "Oracle Database 1" with encryption enabled and option *(2) User password* is selected as the encryption key for the backup set.

```

Main Menu
-----

(1). List Backup Sets
(2). Delete Backup Set
(3). Export Backup Set Settings to XML
(4). Import Backup Set Settings from XML
(5). Generate new Backup Set Settings Template
(6). Change Language [English]
(7). Update Profile Settings
(8). Quit

-----

Your Choice: 4
```

```

Reading xml...
Reading xml...Done
Verifying destination 'AhsayCBS'...
New backup set created.
Enable Encryption (Y/N) ? y

Choose Encryption Type
-----

(1). Default
(2). User password
(3). Custom
-----

Your Choice: 2

XML imported, uploading to server...

XML successfully uploaded to server

```

5. Verify the Backup Set Settings

To verify if the uploaded backup set settings are correct, select **(1). List Backup Sets** and then select the backup you wish to verify. For example, backup set named "Oracle Database 1".

```

Select a Backup Set to show more details
-----

(1). Oracle Database 1
-----

Your Choice: 1

Name                : Oracle Database 1
Owner               : oracle19c.local
Type                : Oracle Database Server
Selected Source     : Oracle Database Server
Deselected Source  : Oracle Database Server/PDB$SEED/TEMP
Deselected Source  : Oracle Database Server/TEMP
Deselected Source  : Oracle Database Server/PDB1/TEMP
Destination Name    : AhsayCBS, Type: OBS
Encryption Key      : abc123$%
Encryption Algorithm : AES
Encryption Mode     : CBC
Encryption Key Length: 256

Press Enter to continue...

```

Congratulations! The backup set configuration is now complete!

NOTES

- i. We would like to stress that it is very important to keep a separate record of your encryption key in a safe place, as you will not be able to restore your data without the correct key.
- ii. If you re-install AhsayOBM or install AhsayOBM on another machine, the encryption key will be required for restoring data from the backup set.

4 Overview on the Backup Process

The following steps are performed during an Oracle Server backup job in Database and Archived Log backup modes.

For an overview of the detailed process for Steps 3, 5, 11, and 14, please refer to Chapter 8 of the [AhsayOBM v9 Quick Start Guide for Linux \(CLI\)](#).

- ▶ Periodic Data Integrity Check (PDIC) Process (**Step 3**)
- ▶ Backup Set Index Handling Process
 - Start Backup Job (**Step 5**)
 - Completed Backup Job (**Step 14**)
- ▶ Data Validation Check Process (**Step 11**)

4.1 Database Backup



4.2 Archived Log Backup



5 Running Backup Jobs

To manually run a backup job, you need to use the **RunBackupSet.sh** script followed by the selected backup set which you would like to back up.

For example:

RunBackupSet.sh <BackupSetName>

After doing so, the backup job will run according to the configured backup set settings. For more details and examples on how to configure a backup set using the **backupSet.xml** file before running a backup, refer to Appendices [A](#) and [B](#).

5.1 Database Backup

The following example only shows the main process of database backup. To see the complete backup log of database backup, refer to [Appendix C](#).

```
# sh RunBackupSet.sh "BackupSet_01"

Using APP_HOME      : /usr/local/obm
Using SETTING_HOME  :
Using JAVA_HOME     : /usr/local/obm/jvm
Using JAVA_EXE      : /usr/local/obm/jvm/bin/java
Using JAVA_OPTS     : -Xrs -Xms128m -Xmx2048m -
XX:MaxDirectMemorySize=512m -client -
Dsun.nio.PageAlignDirectMemory=true
Using JNI_PATH      : -Djava.library.path=../LinX64
Using CLASSPATH     : ../cb.jar
-
Running Backup Set - 'BackupSet_01' ...

[2022/02/22 12:10:38] [info] [-] Start [ AhsayOBM v9.1.2.0 ]
[2022/02/22 12:10:39] [info] [-] Saving encrypted backup set
encryption keys to server...
[2022/02/22 12:10:41] [info] [1645502452076] Start Backup ...
Database(Tablespace, Control & Init File, Archived Logs)
[Deduplication: enabled, Deduplication scope: All files within the
same backup set, Migrate Delta: disabled]
[2022/02/22 12:10:41] [info] [1645502452076] Using Temporary Directory
/temp/1645502391205/OBS@1645502452076
[2022/02/22 12:10:43] [info] [-] Start running pre-commands
[2022/02/22 12:10:43] [info] [-] Finished running pre-commands
[2022/02/22 12:10:43] [info] [1645502452076] Downloading server file
list...
[2022/02/22 12:10:43] [info] [1645502452076] Downloading server file
list... Completed
[2022/02/22 12:10:44] [info] [-] Initializing Oracle module...
[2022/02/22 12:10:46] [info] [-] Skipping temporary tablespace
"PDB/TEMP"
[2022/02/22 12:10:46] [info] [-] Start backing up tablespace
"PDB/SYSAUX"
[2022/02/22 12:10:46] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf" to
```

```

"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/sysaux0
1.dbf" {1}
[2022/02/22 12:10:53] [info] [-] End backing up tablespace
"PDB/SYSAUX"
[2022/02/22 12:10:53] [info] [-] Start backing up tablespace
"PDB/SYSTEM"
[2022/02/22 12:10:53] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/system01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/system0
1.dbf" {1}
[2022/02/22 12:10:56] [info] [-] End backing up tablespace
"PDB/SYSTEM"
[2022/02/22 12:10:56] [info] [-] Start backing up tablespace
"PDB/UNDOTBS1"
[2022/02/22 12:10:56] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/undotbs
01.dbf" {1}
[2022/02/22 12:10:58] [info] [-] End backing up tablespace
"PDB/UNDOTBS1"
[2022/02/22 12:10:58] [info] [-] Start backing up tablespace
"PDB/USERS"
[2022/02/22 12:10:58] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/users01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/users01
.dbf" {1}
[2022/02/22 12:10:59] [info] [-] End backing up tablespace "PDB/USERS"
[2022/02/22 12:10:59] [info] [-] Start backing up tablespace
"PDB$SEED/SYSAUX"
[2022/02/22 12:10:59] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdbseed/sysaux01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdbseed/sys
aux01.dbf" {1}
[2022/02/22 12:11:08] [info] [-] End backing up tablespace
"PDB$SEED/SYSAUX"
[2022/02/22 12:11:08] [info] [-] Start backing up tablespace
"PDB$SEED/SYSTEM"
[2022/02/22 12:11:08] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdbseed/system01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdbseed/sys
tem01.dbf" {1}
[2022/02/22 12:11:12] [info] [-] End backing up tablespace
"PDB$SEED/SYSTEM"
[2022/02/22 12:12:08] [info] [-] Generating create script for temp
files to "/temp/1645502391205/SpoolArea/addTempFile.sql"
[2022/02/22 12:12:08] [info] [-] Backing up initialization file
(pfile)
[2022/02/22 12:12:09] [info] [-] Backing up initialization file
(spfile)
[2022/02/22 12:12:11] [info] [-] Backing up control file
[2022/02/22 12:12:11] [info] [-] Start "Archived Log" backup
[2022/02/22 12:12:11] [info] [-] End "Archived Log" backup
[2022/02/22 12:12:11] [info] [1645502452076] Backup Database "orcl"

```



```

[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/database
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app/oracle
[2022/02/22 12:12:11] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/initrcl.oradump"
[2022/02/22 12:12:11] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/traceCtrlfile.log"
[2022/02/22 12:12:11] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/traceDatafile.log"
[2022/02/22 12:12:11] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/u01/database/dbs/spfileorcl.ora"
[2022/02/22 12:12:36] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/undotbs01.dbf"
[2022/02/22 12:15:41] [info] [1645502452076] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=158, deduplicated size=0, total size=175,654,912
[2022/02/22 12:15:45] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc"
[2022/02/22 12:15:45] [info] [1645502452076] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=159, deduplicated size=0, total size=175,633,920
[2022/02/22 12:15:45] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:48] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:53] [info] [1645502452076] Start validating the
presence and size of backup data in destination "AhsayCBS"...
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000000.bak", Size: 13,280,
OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000001.bak", Size:
776,864, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:

```

```

"1645502391205/blocks/2022-02-22-12-10-29/0/000002.bak", Size:
67,013,184, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000002_000001.bak", Size:
67,011,936, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000002_000002.bak", Size:
66,893,232, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000039.bak", Size:
17,534,992, OK
[2022/02/22 12:15:53] [info] [1645502452076] Finished validating the
presence and size of backup data in destination "AhsayCBS"
[2022/02/22 12:15:53] [info] [1645502452076] Total New Files = 66
[2022/02/22 12:15:53] [info] [1645502452076] Total New Directories =
26
[2022/02/22 12:15:53] [info] [1645502452076] Total New Links = 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Updated Files = 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Deleted Files = 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Deleted Directories
= 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Deleted Links = 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Moved Files = 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Dedupe Saving for
this job = 554.08MB
[2022/02/22 12:15:53] [info] [1645502452076] Total Backup Data Size
for this job = 11.22GB
[2022/02/22 12:15:53] [info] [1645502452076] Total Dedupe Saving for
destination = 554.08MB
[2022/02/22 12:15:53] [info] [1645502452076] Total Backup Data Size
for destination = 11.22GB
[2022/02/22 12:15:53] [info] [-] Deleting temporary file
/temp/1645502391205/SpoolArea
[2022/02/22 12:15:53] [info] [-] Removing archived logs older than 60
day(s)
[2022/02/22 12:15:53] [info] [-] [Delete archived logs]
/u01/database/bin/rman target system/*****@orcl nocatalog
cmdfile=UpdateOracleRmanRecords.rman '60'
[2022/02/22 12:15:54] [info] [-] [Delete archived logs]
[2022/02/22 12:15:54] [info] [-] [Delete archived logs] Recovery
Manager: Release 18.0.0.0.0 - Production on Tue Feb 22 12:15:54 2022
[2022/02/22 12:15:54] [info] [-] [Delete archived logs] Version
18.3.0.0.0
[2022/02/22 12:15:54] [info] [-] [Delete archived logs]
[2022/02/22 12:15:54] [info] [-] [Delete archived logs] Copyright (c)
1982, 2018, Oracle and/or its affiliates. All rights reserved.
[2022/02/22 12:15:54] [info] [-] [Delete archived logs]
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] released
channel: ORA_DISK_1
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] allocated
channel: ORA_DISK_1
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] channel
ORA_DISK_1: SID=26 device type=DISK

```

```

[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
1/o1_mf_1_10_k0dcqcjy_.arc RECID=9 STAMP=1096393195
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_11_k0f2lq0s_.arc RECID=10 STAMP=1096416599
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_12_k0fypx5q_.arc RECID=11 STAMP=1096445405
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_13_k0gd6c8h_.arc RECID=12 STAMP=1096459211
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] Crosschecked
48 objects1
[2022/02/22 12:15:58] [info] [-] [Delete archived logs]
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] released
channel: ORA_DISK_1
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] allocated
channel: ORA_DISK_1
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] channel
ORA_DISK_1: SID=26 device type=DISK
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] Recovery
Manager complete.
[2022/02/22 12:15:59] [info] [-] Saving server information to
destination.
[2022/02/22 12:16:00] [info] [1645502452076] Saving encrypted backup
file index to 1645502391205/blocks/2022-02-22-12-10-29 at destination
AhsayCBS...
[2022/02/22 12:16:00] [info] [-] Start running post-commands
[2022/02/22 12:16:00] [info] [-] Finished running post-commands
[2022/02/22 12:16:03] [info] [1645502452076] Deleting temporary file
/temp/1645502391205/OBS@1645502452076
[2022/02/22 12:16:04] [info] [1645502452076] Backup Completed
Successfully

```

5.2 Archived Log Backup

1. To run an archived log backup, you need to configure the **RunBackupSet.sh** script file using a text editor (e.g., vi).

For example:

```
# vi RunBackupSet.sh
```

2. Change the value of **BACKUP_TYPE** to "LOG" for archived log backup.

```
# cd /usr/local/obm/bin
# vi RunBackupSet.sh

#!/bin/sh

##### RunBackupSet.sh #####
# You can use this shell script to run any of your backup sets from the#
# command line. Just customize the "User Defined Section" below with  #
# your values for your backup action.                                #
#####

##### START: User Defined Section #####

----- BACKUP_SET -----
# | The name or ID of the backup set that you want to run            |
# | If backup set name is not in English, please use ID instead.     |
# | e.g. BACKUP_SET="1119083740107"                                   |
# | or BACKUP_SET="FileBackupSet-1"                                  |
# |                                                                    |
# | You can leave this parameter blank if you have only 1 backup set. |
# -----|
BACKUP_SET=""

# ----- BACKUP_DESTS -----
# | The list of name or ID of the backup destinations that you want to |
# | run.                                                                |
# | If backup destination name is not in English, please use ID instead. |
# | e.g. BACKUP_DESTS="1740107119083"                                   |
# | or BACKUP_DESTS="Destination-1, Destination-2"                     |
# | or BACKUP_DESTS="ALL"                                              |
# |                                                                    |
# | You can specify multiple destinations in comma-separated format,   |
# | or use "ALL" to run backup for all destinations.                   |
# -----|
BACKUP_DESTS="ALL"

# ----- BACKUP_TYPE -----
# | Set backup type. You don't need to change this if you are backing  |
# | up a file backup set.                                              |
# | Options available: FILE/DATABASE/DIFFERENTIAL/LOG                  |
# |                                                                    |
# | e.g. BACKUP_TYPE="FILE"      for file backup                      |
# | or BACKUP_TYPE="DATABASE"    for Full database backup             |
# | or BACKUP_TYPE="DIFFERENTIAL" for Differential database backup     |
# | or BACKUP_TYPE="LOG"         for Log database backup               |
# -----|
```

```

BACKUP_TYPE="LOG"

# ----- SETTING_HOME -----
# | Directory to your setting home. |
# | Default to ${HOME}/.obm when not set. |
# | |
# | e.g. SETTING_HOME="${HOME}/.obm" |
# -----
SETTING_HOME=""

# ----- DELTA_MODE -----
# | Set In-File Delta mode. |
# | Options available: Incremental/Differential/Full (I/D/F) |
# | e.g. DELTA_MODE="I" for Incremental In-file delta backup |
# | or DELTA_MODE="D" for Differential In-file delta backup |
# | or DELTA_MODE="F" for Full File backup |
# | or DELTA_MODE="" for using backup set in-file delta setting |
# -----
DELTA_MODE=""

# ----- CLEANUP_MODE -----
# | You can enable Cleanup mode to remove obsolete files from your |
# | backup destinations after backup. |
# | Options available: ENABLE-CLEANUP/DISABLE-CLEANUP |
# | e.g. CLEANUP_MODE="ENABLE-CLEANUP" |
# | or CLEANUP_MODE="DISABLE-CLEANUP" |
# -----
CLEANUP_MODE="DISABLE-CLEANUP"

# ----- DEBUG_MODE -----
# | Set Debug mode. |
# | Options available: ENABLE-DEBUG/DISABLE-DEBUG |
# | e.g. DEBUG_MODE="ENABLE-DEBUG" |
# | or DEBUG_MODE="DISABLE-DEBUG" |
# -----
DEBUG_MODE="DISABLE-DEBUG"
##### END: User Defined Section #####

```

3. After the **RunBackupSet.sh** script is configured, the backup job will run in archived log mode.

The following example only shows the main process of archived log backup. To see the complete backup log of archived log backup, refer to [Appendix C](#).

```

# sh RunBackupSet.sh "Archived Log Backup"

-

Using APP_HOME      : /usr/local/obm
Using SETTING_HOME  :
Using JAVA_HOME     : /usr/local/obm/jvm
Using JAVA_EXE      : /usr/local/obm/jvm/bin/java
Using JAVA_OPTS     : -Xrs -Xms128m -Xmx2048m -
XX:MaxDirectMemorySize=512m -client -
Dsun.nio.PageAlignDirectMemory=true
Using JNI_PATH      : -Djava.library.path=../LinX64

```

```

Using CLASSPATH      : ../cb.jar
-

Running Backup Set - 'BackupSet_02' ...
[2022/02/22 14:07:54] [info] [-] Start [ AhsayOBM v9.1.2.0 ]
[2022/02/22 14:07:55] [info] [-] Saving encrypted backup set
encryption keys to server...
[2022/02/22 14:07:57] [info] [1645509591771] Start Backup ...
Database(Tablespace, Control & Init File, Archived Logs)
[Deduplication: enabled, Deduplication scope: All files within the
same backup set, Migrate Delta: disabled]
[2022/02/22 14:07:57] [info] [1645509591771] Using Temporary
Directory /temp/1645509537775/OBS@1645509591771
[2022/02/22 14:07:59] [info] [-] Start running pre-commands
[2022/02/22 14:07:59] [info] [-] Finished running pre-commands
[2022/02/22 14:07:59] [info] [1645509591771] Downloading server
file list...
[2022/02/22 14:07:59] [info] [1645509591771] Downloading server
file list... Completed
[2022/02/22 14:08:00] [info] [-] Initializing Oracle module...
[2022/02/22 14:08:01] [info] [-] Skipping temporary tablespace
"PDB/TEMP"
[2022/02/22 14:08:01] [info] [-] Start backing up tablespace
"PDB/SYSAUX"
[2022/02/22 14:08:01] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/sys
aux01.dbf" {1}
[2022/02/22 14:08:04] [info] [-] End backing up tablespace
"PDB/SYSAUX"
[2022/02/22 14:08:04] [info] [-] Start backing up tablespace
"PDB/SYSTEM"
[2022/02/22 14:08:04] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/system01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/sys
tem01.dbf" {1}
[2022/02/22 14:08:12] [info] [-] End backing up tablespace
"PDB/SYSTEM"
[2022/02/22 14:08:12] [info] [-] Start backing up tablespace
"PDB/UNDOTBS1"
[2022/02/22 14:08:12] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/und
otbs01.dbf" {1}
[2022/02/22 14:08:13] [info] [-] End backing up tablespace
"PDB/UNDOTBS1"
[2022/02/22 14:08:13] [info] [-] Start backing up tablespace
"PDB/USERS"
[2022/02/22 14:08:13] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/users01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/use
rs01.dbf" {1}
[2022/02/22 14:08:15] [info] [-] End backing up tablespace

```

```

"PDB/USERS"
[2022/02/22 14:08:15] [info] [-] Start backing up tablespace
"PDB$SEED/SYSAUX"
[2022/02/22 14:09:21] [info] [-] Start backing up tablespace
"USERS"
[2022/02/22 14:09:21] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/users01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/users01
.dbf" {1}
[2022/02/22 14:09:22] [info] [-] End backing up tablespace "USERS"
[2022/02/22 14:09:22] [info] [-] Generating create script for temp
files to "/temp/1645509537775/SpoolArea/addTempFile.sql"
[2022/02/22 14:09:22] [info] [-] Backing up initialization file
(pfile)
[2022/02/22 14:09:23] [info] [-] Backing up initialization file
(spfile)
[2022/02/22 14:09:29] [info] [-] Backing up control file
[2022/02/22 14:09:29] [info] [-] Start "Archived Log" backup
[2022/02/22 14:09:29] [info] [-] End "Archived Log" backup
[2022/02/22 14:09:29] [info] [1645509591771] Backup Database
"orcl"
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]...
Oracle Database Server
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]...
Oracle Database Server/u01
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]...
Oracle Database Server/u01/app
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 100% of
"Oracle Database Server/u01/database/dbs/spfileorcl.ora"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 100% of
"Oracle Database Server/initorcl.oradump"
[2022/02/22 14:10:42] [info] [1645509591771] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022
_02_12/o1_mf_1_15_k0h757gg_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=160, deduplicated size=0, total size=176,379,392
[2022/02/22 14:10:42] [info] [1645509591771] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022
_02_13/o1_mf_1_18_k0jx2wt5_.arc"
[2022/02/22 14:12:52] [info] [1645509591771] Start validating the
presence and size of backup data in destination "AhsayCBS"...
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000000.bak", Size:
737,536, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000001.bak", Size:
3,063,664, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000002.bak", Size:
66,851,072, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:

```

```

"1645509537775/blocks/2022-02-22-14-07-45/0/000003.bak", Size:
66,972,304, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000039.bak", Size:
17,534,992, OK
[2022/02/22 14:12:52] [info] [1645509591771] Finished validating
the presence and size of backup data in destination "AhsayCBS"
[2022/02/22 14:12:52] [info] [1645509591771] Total New Files = 67
[2022/02/22 14:12:52] [info] [1645509591771] Total New Directories
= 26
[2022/02/22 14:12:52] [info] [1645509591771] Total New Links = 0
[2022/02/22 14:12:52] [info] [1645509591771] Total Updated Files =
0
[2022/02/22 14:12:52] [info] [1645509591771] Total Deleted Files =
0
[2022/02/22 14:12:52] [info] [1645509591771] Total Deleted
Directories = 0
[2022/02/22 14:12:52] [info] [1645509591771] Total Deleted Links =
0
[2022/02/22 14:12:52] [info] [1645509591771] Total Moved Files = 0
[2022/02/22 14:12:52] [info] [1645509591771] Total Dedupe Saving
for this job = 492.58MB
[2022/02/22 14:12:52] [info] [1645509591771] Total Backup Data
Size for this job = 11.24GB
[2022/02/22 14:12:52] [info] [1645509591771] Total Dedupe Saving
for destination = 492.58MB
[2022/02/22 14:12:52] [info] [1645509591771] Total Backup Data
Size for destination = 11.24GB
[2022/02/22 14:12:52] [info] [-] Deleting temporary file
/temp/1645509537775/SpoolArea
[2022/02/22 14:12:52] [info] [-] Removing archived logs older than
60 day(s)
[2022/02/22 14:12:52] [info] [-] [Delete archived logs]
/u01/database/bin/rman target system/*****@orcl nocatalog
cmdfile=UpdateOracleRmanRecords.rman '60'
[2022/02/22 14:12:52] [info] [-] [Delete archived logs] Recovery
Manager: Release 18.0.0.0.0 - Production on Tue Feb 22 14:12:52
2022
[2022/02/22 14:12:52] [info] [-] [Delete archived logs] Version
18.3.0.0.0
[2022/02/22 14:12:52] [info] [-] [Delete archived logs] Copyright
(c) 1982, 2018, Oracle and/or its affiliates. All rights
reserved.
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived
log file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_
02_22/o1_mf_1_56_k18o0scj_.arc RECID=55 STAMP=1097320218
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived
log file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_
02_22/o1_mf_1_57_k18rnsjq_.arc RECID=56 STAMP=1097323930

```



```
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived
log file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_
02_22/o1_mf_1_58_k18zjmgp_.arc RECID=57 STAMP=1097330963
[2022/02/22 14:12:56] [info] [-] [Delete archived logs]
Crosschecked 49 objects
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] released
channel: ORA_DISK_1
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] allocated
channel: ORA_DISK_1
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] channel
ORA_DISK_1: SID=266 device type=DISK
[2022/02/22 14:12:56] [info] [-] [Delete archived logs]
specification does not match any archived log in the repository
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] Recovery
Manager complete.
[2022/02/22 14:12:57] [info] [-] Saving server information to
destination.
[2022/02/22 14:12:58] [info] [1645509591771] Saving encrypted
backup file index to 1645509537775/blocks/2022-02-22-14-07-45 at
destination AhsayCBS...
[2022/02/22 14:12:58] [info] [-] Start running post-commands
[2022/02/22 14:12:58] [info] [-] Finished running post-commands
[2022/02/22 14:13:01] [info] [1645509591771] Deleting temporary
file /temp/1645509537775/OBS@1645509591771
[2022/02/22 14:13:01] [info] [1645509591771] Backup Completed
Successfully
```

6 Restoring Backup for Oracle Database Server

There are two (2) restore options to choose from in Linux CLI mode:

- **Original location** – AhsayOBM will restore the database(s) from the backup destination and apply them to the original production Oracle instance.
- **Restore raw file** – AhsayOBM will restore the Oracle database files to a location on the local machine, which then can be copied to another Oracle server on another machine for recovery.

The **Restore Raw File** option is for advanced Oracle database administrators and should only be used if you have in-depth knowledge and understanding of Oracle database engine, Oracle database schema, knowledge of the database server and network infrastructure. Therefore, it is not recommended to use this restore option as there is a need to utilize additional Oracle techniques and scripts to facilitate a manual database restore.

Please refer to the following article of Oracle Database Backup and Recovery User's Guide for details:

Oracle 19c

<https://docs.oracle.com/en/database/oracle/oracle-database/19/bradv/index.html>

Oracle 18c

<https://docs.oracle.com/en/database/oracle/oracle-database/18/bradv/index.html>

Before restoring your Oracle database, check the following:

1. TNS listener service must be started to allow connections to the Oracle database server for the restore process. To check if the TNS listener service is running, use the `lsnrctl status` command. If the TNS listener service is not started, use the `lsnrctl start` command to start the service.

Example: A running TNS Listener service on Oracle 19c.

```
$ lsnrctl status

LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 22-FEB 2022
11:33:44

Copyright (c) 1991, 2019, Oracle. All rights reserved.

Connecting to
(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP) (HOST=oracle19c.local) (PORT=15
21)))
STATUS of the LISTENER
-----
Alias                     LISTENER
Version                   TNSLSNR for Linux: Version 19.0.0.0.0 -
Production
Start Date                22-FEB-2022 12:13:24
Uptime                    1 days 23 hr. 20 min. 20 sec
Trace Level               off
Security                  ON: Local OS Authentication
SNMP                      OFF
```

```

Listener Parameter File
/u01/app/oracle/product/19.0.0/dbhome_1/network/admin/listener.ora
Listener Log File
/u01/app/oracle/diag/tnslsnr/oracle19c/listener/alert/log.xml
Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp) (HOST=oracle19c.local) (PORT=15
21)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc) (KEY=EXTPROC1521)))
Services Summary...
Service "86b637b62fdf7a65e053f706e80a27ca" has 1 instance(s).
  Instance "cdbl", status READY, has 1 handler(s) for this
service...
Service "8886b84fb1e0709de053631e100a76ed" has 1 instance(s).
  Instance "cdbl", status READY, has 1 handler(s) for this
service...
Service "cdbl" has 1 instance(s).
  Instance "cdbl", status READY, has 1 handler(s) for this
service...
Service "cdblXDB" has 1 instance(s).
  Instance "cdbl", status READY, has 1 handler(s) for this
service...
Service "pdb1" has 1 instance(s).
  Instance "cdbl", status READY, has 1 handler(s) for this
service...
The command completed successfully

```

NOTE

The values shown are just examples and might be different on your Oracle instance.

2. Run the `sqlplus / as sysdba` command to verify if the Oracle service is active.

The following is just an example after an Oracle instance failure due to corrupted data and/or configuration files. It might be different on your Oracle instance.

```

$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Mon Nov 9 15:23:12
2020
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Connected to an idle instance.

```

Follow the steps below to restore the Oracle database either to the original production Oracle instance or to another location on the local machine.

1. Open the **Restore.sh** script using a text editor (e.g. vi) and configure the restore settings:
 - **BACKUP_SET** – the name of the backup set which you would like to restore.
 - **DESTINATION** – the destination where the backup will be restored from. You can leave this blank if you only have one (1) destination.
 - **RESTORE_TO** – the location where the backup will be restored. This setting should be left blank if restoring to Original Location.
 - **RESTORE_FROM** – the file or directory that you would like to restore.
 - **POINT_IN_TIME** – the specific successful backup that you would like to restore. You can use `Current` if you want to use the latest backup snapshot.
 - **RESTORE_PERMISSION** – the setting where you can enable or disable the restore file permissions.
 - **SKIP_INVALID_KEY** – the setting where you can choose to skip the restore file with invalid key or prompt user to input a correct key.
 - **SYNC_OPTION** – the setting where you can choose to delete extra files by selecting from the following sync options:
 - `SYNC_OPTION="Y"` -> to enable sync option
 - `SYNC_OPTION="N"` -> to disable sync option
 - `SYNC_OPTION=""` -> to prompt for selection
 - **REPLACE_EXISTING_FILE** – the setting where you can choose if you want to replace or keep existing files with the same filename, or prompt for selection:
 - `REPLACE_EXISTING_FILE="--all"` -> to replace all existing file(s) of the same filename
 - `REPLACE_EXISTING_FILE="--none"` -> to skip all existing file(s) with the same filename
 - `REPLACE_EXISTING_FILE=""` -> to prompt for selection
 - **SETTING_HOME** – the directory of setting home.
 - **FILTER** – the setting where you can filter the files which you would like to restore.
 - **TEMP_DIR** – the temporary directory where the backup will be restored.
 - **VERIFY_CHKSUM** – the setting where you can enable or disable the in-file delta file checksum to be verified during restore.

NOTE

The **RESTORE_TO=""** setting must be blank when restoring to Original Location.

```

# cd /usr/local/obm/bin
# vi Restore.sh

# !/bin/sh

##### Restore.sh #####
# You can use this shell script to restore backup files using command- #
# line. #
# Just customize the "User Define Section" below with values for your #
# restore action. #
#####

##### Start: User Defined Section #####

# ----- BACKUP_SET -----
# | The name or ID of the backup set that you want to restore. |
# | If backup set name is not in English, please use ID instead. |
# | e.g. BACKUP_SET="1119083740107" |
# | or BACKUP_SET="FileBackupSet-1" |
# | |
# | You can leave this parameter blank if you have only 1 backupset. |
# -----|
BACKUP_SET="BackupSet_01"

# ----- DESTINATION -----
# | The name or ID of the backup destination that you want to restore |
# | from. |
# | If backup destination name is not in English, please use ID instead. |
# | e.g. DESTINATION="1740107119083" |
# | or DESTINATION="Destination-1" |
# | |
# | You can leave this parameter blank if you have only 1 destination. |
# -----|
DESTINATION=""

# ----- RESTORE_TO -----
# | Directory to where you want files to be restored |
# | set to "" to restore files to original location |
# | e.g. RESTORE_TO="/tmp" |
# -----|
RESTORE_TO=""

# ----- RESTORE_FROM -----
# | File/Directory on the backup server that you would like to restore |
# | e.g. RESTORE_FROM="/Data" |
# -----|
RESTORE_FROM="Oracle Database Server"

# ----- POINT_IN_TIME -----
# | The point-in-time snapshot (successful backup) that you want to |
# | restore |
# | from the backup server. Use "Current" for the latest backup snapshot |
# | e.g. POINT_IN_TIME="2006-10-04-12-57-13" |
# | or POINT_IN_TIME="Current" |
# | |
# | You can retrieve the point in time by using the ListBackupJob.sh |
# -----|
POINT_IN_TIME="Current"

# ----- RESTORE_PERMISSION -----
# | set to "Y" if you want to restore file permissions |
# | set to "N" if you do NOT want to restore file permissions |
# -----|
RESTORE_PERMISSION="N"

# ----- SKIP_INVALID_KEY -----
# | set to "Y" if you want to skip restore file with invalid key |
# | set to "N" if you want to prompt user to input a correct key |

```

```

# -----
SKIP_INVALID_KEY="N"

# ----- SYNC_OPTION -----
# | Delete extra files |
# | set to "Y" if you want to enable sync option |
# | set to "N" if you do NOT want to enable sync option |
# | set to "" to prompt for selection |
# -----
SYNC_OPTION="N"

# ----- REPLACE_EXISTING_FILE -----
# | set to "--all" to replace all existing file(s) of the same filename |
# | set to "--none" to skip all existing file(s) with the same filename |
# | set to "" to prompt for selection |
# -----
REPLACE_EXISTING_FILE="--all"

# ----- SETTING_HOME -----
# | Directory to your setting home. |
# | Default to ${HOME}/.obm when not set. |
# | e.g. SETTING_HOME="${HOME}/.obm" |
# -----
SETTING_HOME=""

# ----- FILTER -----
# | Filter out what files you want to restore |
# | -Pattern=xxx-Type=yyy-Target=zzz |
# | where xxx is the filter pattern, |
# | yyy is the filter type, which can be one of the following: |
# | [exact | exactMatchCase | contains | containsMatchCase | |
# | startWith | startWithMatchCase | endWith | |
# | endWithMatchCase] |
# | zzz is the filter target, which can be one of the following: |
# | [toFile | toFileDir | toDir] |
# | |
# | e.g. FILTER="-Pattern=.txt-Type=exact-Target=toFile" |
# -----
FILTER=""

# ----- TEMP_DIR -----
# | Directory to where you want to store restore files temporarily |
# | set to "" to use the temporary directory in the backup set |
# | e.g. TEMP_DIR="/tmp" |
# -----
TEMP_DIR="/tmp"

# ----- VERIFY_CHKSUM -----
# | set to "Y" if you want to verify in-file delta file checksum during |
# | restore |
# | set to "N" if you do NOT want to verify in-file delta file checksum |
# | during restore |
# -----
VERIFY_CHKSUM="N"

##### END: User Defined Section #####

#####
# R E T R I E V E A P P _ H O M E P A T H #
# #
#####

```

2. After the **Restore.sh** script is configured, the files can be:

- restored automatically to the Oracle Database Server. When the *Database is required to shutdown. Continue?* appears, select **1.YES**.
- restore the raw file to another location on the local machine and manually recover the database.

The following example only shows the main process of restore. To see the complete restore log, refer to [Appendix D](#).

```
# cd /usr/local/obm/bin
# sh Restore.sh

Using APP_HOME:           : /usr/local/obm
Using BACKUP_SET           : BackupSet_01
Using RESTORE_FROM         : Oracle Database Server
Using RESTORE_TO           :
Using POINT_IN_TIME        : Current
Using RESTORE_PERMISSION   : N
Using TEMP_DIR             : /temp
Filter Pattern not set, filter would not apply to restore
Temporary directory not set, use the temporary directory in the
backup set

Filter Pattern not set, filter would not apply to restore
[2022/02/23 11:22:59] Start [ AhsayOBM v9.1.2.0 ]
[2022/02/23 11:22:59] OS: Linux 3.10.0-1160.45.1.el7.x86_64
(localhost.localdomain); CPU Model: Intel(R) Xeon(R) Gold 5218R
CPU @ 2.10GHz,Intel(R) Xeon(R) Gold 5218R CPU @ 2.10GHz; Number
of Processors: 4; Heap Size: 60.4MB (Current) / 1.8GB (Maximum);
Physical Memory: 3.3GB (Free) / 7.6GB (Total)
[2022-02-22 17:43:33] start,Start [ AhsayOBM
v9.1.2.0 ],0,0,0,,0,0

[2022/02/23 11:22:59] [hide] Selected job: 2022-02-23-24-00-00
[2022/02/23 11:22:59] [hide] Selected source: [Oracle Database
Server]
[2022/02/23 11:22:59] Info: [followLink=false
marshalTargetPath=false deleteForSync=false skipFaultKey=false
verifyDeltaFileChecksum=false
ignoreSegmentInfoCorruptedData=true restorePermission=false
[RestoreLocation] type=ORIGINAL path=[null]]

[2022/02/23 11:23:01] Initializing decrypt action...
[2022/02/23 11:23:01] Initializing decrypt action... Completed
[2022/02/23 11:23:01] Start restore database "orcl"
[2022/02/23 11:23:03] Initializing Oracle module...
Database is required to shutdown. Continue?
1.YES      2.YES TO ALL      3.NO      4.NO TO ALL  >>1
[2022/02/23 11:23:08] Shutdown database
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
```

```

[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/oradata/ORCL/redo03.log"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/oradata/ORCL/redo02.log"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/oradata/ORCL/redo01.log"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/sysaux01.dbf"
[2022/02/23 11:23:54] Existing item found (overwrite)...
/u01/database/dbs/spfileorcl.ora
[2022/02/23 11:23:54] Downloading...
"/u01/database/dbs/spfileorcl.ora" (Total 3K bytes)
[2022/02/23 11:23:54] Downloading...
"/u01/app/oracle/oradata/ORCL/control01.ctl" (Total 17.89M
bytes)
[2022/02/23 11:23:54] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl" (Total
17.89M bytes)
[2022/02/23 11:23:55] Mount database
[2022/02/23 11:27:48] Downloading...
"/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf" (Total 370.01M
bytes)
[2022/02/23 11:27:51] Downloading...
"/u01/app/oracle/oradata/ORCL/pdbseed/sysaux01.dbf" (Total
350.01M bytes)
[2022/02/23 11:27:54] Downloading...
"/u01/app/oracle/oradata/ORCL/pdb/system01.dbf" (Total 250.01M
bytes)
[2022/02/23 11:28:04] Downloading...
"/u01/app/oracle/oradata/ORCL/pdbseed/undotbs01.dbf" (Total
100.01M bytes)
[2022/02/23 11:29:21] Recover database
[2022/02/23 11:29:22] Reset database logs
[2022/02/23 11:29:53] Restart database
[2022/02/23 11:30:57] Restore Completed Successfully
[2022/02/23 11:30:57] end,RESTORE_STOP_SUCCESS,0,0,0,,0,0

```

3. After the restore job is completed, verify if the Oracle database instance has been restored using the following SQL query to verify if the instance is online.

```

$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Wed Feb 23
11:35:54 2022

Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 -
Production

```



```

Version 19.3.0.0.0

SQL> select instance from v$thread;

INSTANCE
-----

orcl

SQL>

```

For restore raw file, locate the path where you restored the Oracle database files.

For example: RESTORE_TO="/usr/local/restorefolder"

```

# ls -la "/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/oradata/ORCL"

total 2552752
drwxrwxrwx. 4 oracle oinstall      133 Feb 22 17:18 .
drwxrwxrwx. 3 oracle oinstall       18 Feb 22 17:14 ..
-rw-r--r--. 1 oracle oinstall 18759680 Feb 22 12:12
    control01.ctl
drwxrwxrwx. 2 oracle oinstall       86 Feb 22 17:17 pdb
drwxrwxrwx. 2 oracle oinstall       67 Feb 22 17:17 pdbseed
-rw-rw-rw-. 1 oracle oinstall 1447043072 Feb 22 12:11
    sysaux01.dbf
-rw-rw-rw-. 1 oracle oinstall  912269312 Feb 22 12:12
    system01.dbf
-rw-rw-rw-. 1 oracle oinstall  230694912 Feb 22 12:12
    undotbs01.dbf
-rw-r--r--. 1 oracle oinstall   5251072 Feb 22 12:12
    users01.dbf

```

4. This step is only needed if you restored a raw file.

To recover RAW databases, please refer to the following article of Oracle Database Backup and Recovery User's Guide for details:

Oracle 19c

<https://docs.oracle.com/en/database/oracle/oracle-database/19/bradv/index.html>

Oracle 18c

<https://docs.oracle.com/en/database/oracle/oracle-database/18/bradv/index.html>

7 Contacting Ahsay

7.1 Technical Assistance

To contact Ahsay support representatives for technical assistance, visit the Partner Portal:

<https://www.ahsay.com/partners/>

Also use the Ahsay Wikipedia for resource such as Hardware Compatibility List, Software Compatibility List, and other product information:

<https://wiki.ahsay.com/>

7.2 Documentation

Documentations for all Ahsay products are available at:

https://www.ahsay.com/jsp/en/home/index.jsp?pageContentKey=ahsay_downloads_documentation_guides

You can send us suggestions for improvements or report on issues in the documentation by contacting us at:

<https://www.ahsay.com/partners/>

Please specify the specific document title as well as the change required/suggestion when contacting us.

Appendix

Appendix A Oracle Database Backup Set XML Template (Raw)

```
<?xml version="1.0" encoding="UTF-8"?>
<Setting>
  <!-- This is the backup set setting -->
  <Key name="Backup Set Setting" allowMultiple="Y">
    <!-- Backup set type (Read Only) -->
    <Value data="Oracle Database Server" name="Type" type="string" />
    <!-- Backup set name -->
    <Value data="" name="Name" type="string" />
    <!-- Temporary directory for storing backup files -->
    <Value data="" name="Temporary Working Directory" type="string" />
    <!-- Remove temporary files after backup -->
    <!-- Y: Yes -->
    <!-- N: No -->
    <Value data="Y" name="Delete temporary files after backup"
type="boolean" />
    <!-- Select compression type -->
    <!-- GzipDefaultCompression : Normal -->
    <!-- GzipBestSpeedCompression: Fast (Compressed size larger than
normal) -->
    <!-- SnappyDefaultCompression: Fast with optimization for local -->
    <!-- Leave the field blank for no compression -->
    <Value data="" name="Compression Type" type="string" />
    <!-- Delete archived logs that are older than the following days --
>
    <!-- 1, 2, 3, 4... -->
    <!-- Enter -1 to turn off log retention -->
    <Value data="60" name="Days of log retention" type="integer" />
    <!-- This shows the Oracle Database Server setting -->
    <Key name="Oracle Database Server Setting">
      <!-- Oracle Login ID -->
      <Value data="" name="Login ID" type="string" />
      <!-- Oracle Password -->
      <Value data="" name="Password" type="string" />
      <!-- Oracle Host -->
      <Value data="" name="Host" type="string" />
      <!-- Oracle Port -->
      <Value data="" name="Port" type="string" />
      <Value data="" name="SID" type="string" />
    </Key>
    <!-- This includes the database you want to backup -->
    <!-- Copy and paste the whole <Key> to add more selected sources --
>
    <Key name="Selected Source" allowMultiple="Y">
      <!-- Please enter the path in the format of "Oracle
Database Server/_YOUR_FILE_NAME_" -->
      <Value data="" name="Path" type="string" />
    </Key>
    <!-- This excludes the database from the included source -->
```

```

-->          <!-- Copy and paste the whole <Key> to add more deselected sources
-->
          <Key name="Deselected Source" allowMultiple="Y">
              <!-- Please enter the path in the format of "Oracle
Database Server/_YOUR_FILE_NAME_" -->
              <Value data="" name="Path" type="string" />
          </Key>
          <!-- Settings for your scheduled backups -->
          <Key name="Schedule Settings">
              <!-- Enable scheduled backup on this computer -->
              <!-- Y: Yes -->
              <!-- N: No -->
              <Value data="N" name="Enable" type="boolean" />
              <!-- Daily settings -->
              <!-- Copy and paste the whole <Key> to add more daily
schedules -->
              <Key name="Daily Schedule Settings" allowMultiple="Y">
                  <!-- Name of schedule -->
                  <Value data="Daily-Schedule" name="Name"
type="string" />
                  <!-- Start hour -->
                  <!-- 0, 1, 2... 23 -->
                  <!-- This value will be ignored if the schedule is
set to be periodic ("Interval" field contains value other than -1) -->
                  <Value data="21" name="Hour" type="integer" />
                  <!-- Start minute -->
                  <!-- 0, 1, 2... 59 -->
                  <!-- This value will be ignored if the schedule is
set to be periodic ("Interval" field contains value other than -1) -->
                  <Value data="0" name="Minute" type="integer" />
                  <!-- Type of backup -->
                  <!-- DATABASE: Database (Tablespaces, Control & Init
File, Archived Logs) -->
                  <!-- LOG      : Archived Log -->
                  <Value data="" name="Backup type" type="string" />
                  <!-- Interval -->
                  <!-- 1   : 1 minute -->
                  <!-- 2   : 2 minutes -->
                  <!-- 3   : 3 minutes -->
                  <!-- 4   : 4 minutes -->
                  <!-- 5   : 5 minutes -->
                  <!-- 6   : 6 minutes -->
                  <!-- 10  : 10 minutes -->
                  <!-- 12  : 12 minutes -->
                  <!-- 15  : 15 minutes -->
                  <!-- 20  : 20 minutes -->
                  <!-- 30  : 30 minutes -->
                  <!-- 60  : 1 hour -->
                  <!-- 120 : 2 hours -->
                  <!-- 180 : 3 hours -->
                  <!-- 240 : 4 hours -->
                  <!-- 360 : 6 hours -->
                  <!-- 480 : 8 hours -->
                  <!-- 720 : 12 hours -->

```

```

schedule -->
    <!-- A value of -1 means a non-periodic normal
    <Value data="-1" name="Interval" type="integer" />
    </Key>
    <!-- Weekly settings -->
    <!-- Copy and paste the whole <Key> to add more weekly
schedules -->
    <Key name="Weekly Schedule Settings" allowMultiple="Y">
        <!-- Name of schedule -->
        <Value data="Weekly-Schedule" name="Name"
type="string" />
        <!-- Start hour -->
        <!-- 0, 1, 2... 23 -->
        <!-- This value will be ignored if the schedule is
set to be periodic ("Interval" field contains value other than -1) -->
        <Value data="21" name="Hour" type="integer" />
        <!-- Start minute -->
        <!-- 0, 1, 2... 59 -->
        <!-- This value will be ignored if the schedule is
set to be periodic ("Interval" field contains value other than -1) -->
        <Value data="0" name="Minute" type="integer" />
        <!-- Type of backup -->
        <!-- DATABASE: Database (Tablespaces, Control & Init
File, Archived Logs) -->
        <!-- LOG : Archived Log -->
        <Value data="" name="Backup type" type="string" />
        <!-- Interval -->
        <!-- 1 : 1 minute -->
        <!-- 2 : 2 minutes -->
        <!-- 3 : 3 minutes -->
        <!-- 4 : 4 minutes -->
        <!-- 5 : 5 minutes -->
        <!-- 6 : 6 minutes -->
        <!-- 10 : 10 minutes -->
        <!-- 12 : 12 minutes -->
        <!-- 15 : 15 minutes -->
        <!-- 20 : 20 minutes -->
        <!-- 30 : 30 minutes -->
        <!-- 60 : 1 hour -->
        <!-- 120 : 2 hours -->
        <!-- 180 : 3 hours -->
        <!-- 240 : 4 hours -->
        <!-- 360 : 6 hours -->
        <!-- 480 : 8 hours -->
        <!-- 720 : 12 hours -->
        <!-- A value of -1 means a non-periodic normal
schedule -->
        <Value data="-1" name="Interval" type="integer" />
        <!-- Backup on these days of the week -->
        <!-- Y: Yes -->
        <!-- N: No -->
        <Value data="Y" name="Sunday" type="boolean" />
        <Value data="Y" name="Monday" type="boolean" />
        <Value data="Y" name="Tuesday" type="boolean" />

```

```

                                <Value data="Y" name="Wednesday" type="boolean" />
                                <Value data="Y" name="Thursday" type="boolean" />
                                <Value data="Y" name="Friday" type="boolean" />
                                <Value data="Y" name="Saturday" type="boolean" />
                                </Key>
                                <!-- Monthly settings -->
                                <!-- Copy and paste the whole <Key> to add more monthly
schedules -->
                                <Key name="Monthly Schedule Settings" allowMultiple="Y">
                                    <!-- Name of schedule -->
                                    <Value data="Monthly-Schedule" name="Name"
type="string" />

                                    <!-- Start hour -->
                                    <!-- 0, 1, 2... 23 -->
                                    <Value data="21" name="Hour" type="integer" />
                                    <!-- Start minute -->
                                    <!-- 0, 1, 2... 59 -->
                                    <Value data="0" name="Minute" type="integer" />
                                    <!-- Type of backup -->
                                    <!-- DATABASE: Database (Tablespaces, Control & Init
File, Archived Logs) -->

                                    <!-- LOG      : Archived Log -->
                                    <Value data="" name="Backup type" type="string" />
                                    <!-- Schedule date of month -->
                                    <!-- 1, 2, 3... 31 -->
                                    <!-- 32: Last -->
                                    <!-- Set to 0 if you want to use the format of
occurrence + criteria, e.g. Third Wednesday, instead -->
                                    <Value data="1" name="Schedule Date" type="integer"
/>

                                    <!-- Backup occurrence -->
                                    <!-- First / Second / Third / Fourth / Last -->
                                    <!-- If "Schedule Date" is not zero, this value
will be ignored -->

                                    <Value data="First" name="Occurrence" type="string"
/>

                                    <!-- Backup criteria -->
                                    <!-- Sunday / Monday / Tuesday / Wednesday /
Thursday / Friday / Saturday / Weekday / Weekend -->
                                    <!-- If "Schedule Date" is not zero, this value
will be ignored -->

                                    <Value data="Friday" name="Criteria" type="string"
/>

                                </Key>
                                <!-- Custom settings -->
                                <!-- Copy and paste the whole <Key> to add more custom
schedules -->
                                <Key name="Custom Schedule Settings" allowMultiple="Y">
                                    <!-- Name of schedule -->
                                    <Value data="Custom" name="Name" type="string" />
                                    <!-- Start hour -->
                                    <!-- 0, 1, 2... 23 -->
                                    <Value data="21" name="Hour" type="integer" />
                                    <!-- Start minute -->
                                    <!-- 0, 1, 2... 59 -->

```

```

                                <Value data="0" name="Minute" type="integer" />
                                <!-- Type of backup -->
                                <!-- DATABASE: Database (Tablespaces, Control & Init
File, Archived Logs) -->
                                <!-- LOG      : Archived Log -->
                                <Value data="" name="Backup type" type="string" />
                                <!-- Date for performing custom schedule backup -->
                                <!-- Input in the format of YYYY-MM-DD -->
                                <Value data="2022-2-14" name="Schedule Date"
type="string" />
                                </Key>
                            </Key>
                            <!-- This is the collection of destinations -->
                            <Key name="Destination Settings">
                                <Value data="1" name="concurrency-level" type="integer" />
                                <!-- AhsayCBS destination is where the files are backup to
server -->
                                <Key name="AhsayCBS Destination Settings"
allowMultiple="Y">
                                    </Key>
                                    <!-- Local destination means backup files are stored in
your computer -->
                                    <!-- Copy and paste the whole <Key> to add more local
destinations -->
                                    <Key name="Local Destination Settings" allowMultiple="Y">
                                        <!-- Name of your destination -->
                                        <Value data="" name="Name" type="string" />
                                        <!-- Directory to store your backup files -->
                                        <!-- e.g. /tmp -->
                                        <Value data="" name="Local Path" type="string" />
                                    </Key>
                                </Key>
                                <!-- This shows the deduplication setting -->
                                <Key name="Deduplication Setting">
                                    <!-- Enable deduplication -->
                                    <!-- Y: Yes -->
                                    <!-- N: No -->
                                    <Value data="Y" name="Enable" type="boolean" />
                                    <!-- Deduplication scope -->
                                    <!-- F: Same file path within the same backup set -->
                                    <!-- B: All files within the same backup set -->
                                    <Value data="B" name="Deduplication level" type="string" />
                                </Key>
                            </Key>
                        </Setting>

```

Appendix B Oracle Database Backup Set XML Template (with explanation)

This appendix explains all configurable items with their available options, highlighted in red, in this file backup set XML scripts.

Backup Set Setting

The following items define the basic configurations of the Oracle database backup set.

- **Backup set type** – enter the backup set type, for instance, Oracle Database Server.
- **Backup set name** – name your backup set.
- **Temporary directory for storing backup files** – enter the directory path where you would like to have the backup files stored temporarily. The temporary directory is used for various purposes, such as storage of spooled Oracle database(s) and archived log files.
- **Remove temporary files after backup** – choose whether to remove temporary files after a backup job.
- **Select compression type** – choose the backup compression mode among Normal, Fast, Fast with optimization for local or No compression.
- **Delete archived logs that are older than the following days** – the deletion of the archived logs is enabled by default and archived logs more than 60 days are deleted from the Oracle database instance. This process is done after every database and archived log backup job.

For example, if the Oracle database instance generates a lot of archived log files, you may want to reduce the number of days before they are deleted.

```
<?xml version="1.0" encoding="UTF-8"?>

<Setting>

    <!-- This is the backup set setting -->
    <Key name="Backup Set Setting" allowMultiple="Y">
        <!-- Backup set ID (Read Only) -->
        <Value data="1605866367637" name="ID" type="string" />
        <!-- Backup set type (Read Only) -->
        <Value data="Oracle Database Server" name="Type" type="string" />
        <!-- Backup set name -->
        <Value data="Oracle DB backup" name="Name" type="string" />
        <!-- Temporary directory for storing backup files -->
        <Value data="/temp" name="Temporary Working Directory"
type="string" />
        <!-- Remove temporary files after backup -->
        <!-- Y: Yes -->
        <!-- N: No -->
        <Value data="Y" name="Delete temporary files after backup"
type="boolean" />
        <!-- Select compression type -->
        <!-- GzipDefaultCompression : Normal -->
        <!-- GzipBestSpeedCompression: Fast (Compressed size larger than
normal) -->
        <!-- SnappyDefaultCompression: Fast with optimization for local --
>

        <!-- Leave the field blank for no compression -->
        <Value data="SnappyDefaultCompression" name="Compression Type"
```



```

type="string" />
        <!-- Delete archived logs that are older than the following days -
->
        <!-- 1, 2, 3, 4... -->
        <!-- Enter -1 to turn off log retention -->
        <Value data="60" name="Days of log retention" type="integer" />

```

Oracle Setting

Configure the login and network settings for the Oracle Database Server.

- **Oracle Login ID** – enter the login ID of the Oracle server. The default login ID is “system”.
- **Oracle Password** – enter the password of the login account.
- **Oracle Host** – this value is set to “localhost”.
- **Oracle Port** – the port where the connections to the Oracle server is made. The default port is “1521”.
- **Oracle SID** – the Oracle System Identifier. For more details, please refer to [Ch. 2.9.4](#).

```

<!-- This shows the Oracle Database Server setting -->
<Key name="Oracle Database Server Setting">
    <!-- Oracle Login ID -->
    <Value data="system" name="Login ID" type="string" />
    <!-- Oracle Password -->
    <Value data="abc123" name="Password" type="string" />
    <!-- Oracle Host -->
    <Value data="localhost" name="Host" type="string" />
    <!-- Oracle Port -->
    <Value data="1521" name="Port" type="string" />
    <!-- Oracle SID -->
    <Value data="cdb1" name="SID" type="string" />
</Key>

```

Selected Source

Enter the location of the database(s) that you would like to back up.

```

<!-- This includes the database you want to backup -->
        <!-- Copy and paste the whole <Key> to add more selected sources -
->
        <Key name="Selected Source" allowMultiple="Y">
            <!-- Please enter the path in the format of "Oracle Database
Server/_YOUR_FILE_NAME_" -->
            <Value data="Oracle Database Server" name="Path" type="string" />
        </Key>

```

Deselected Source

Enter the location of the database(s) that you would like to exclude from the back up.

```

<!-- This excludes the database from the included source -->
        <!-- Copy and paste the whole <Key> to add more deselected sources
-->
        <Key name="Deselected Source" allowMultiple="Y">
            <!-- Please enter the path in the format of "Oracle
Database Server/_YOUR_FILE_NAME_" -->
            <Value data="Oracle Database Server/TEMP" name="Path" type="string"
/>
        </Key>

```

Schedule Settings

Choose whether you would like backup jobs to be run at the scheduled time you set.

```
<!-- Settings for your scheduled backups -->
<Key name="Schedule Settings">
  <!-- Enable scheduled backup on this computer -->
  <!-- Y: Yes -->
  <!-- N: No -->
  <Value data="N" name="Enable" type="boolean" />
```

Daily Schedule Settings

Set backup jobs to run daily at the time you specified (start backup “at” or normal backup schedule) or at intervals of minutes/hours (start backup “every” or periodic backup schedule).

- **Name of schedule** – name of the backup schedule.
- **Start hour** – the starting hour of the backup, from 0-23. This value will apply for normal backup schedule or start backup “at”.
- **Start minute** – the starting minute of the backup, from 0-59. This value will apply for normal backup schedule or start backup “at”.
- **Type of backup** – the type of backup schedule:
 - **Database** – this type of backup includes Tablespaces, Control & Init File and Archived Logs.
 - **Archived Log** – this type of backup only includes Archived Logs.
- **Interval** – the frequency in minutes or hours when the backup would start, from 1-30 in minutes and 60-720 in hours. This value will apply for periodic backup schedule or start backup “every”.

```
<!-- Daily settings -->
<!-- Copy and paste the whole <Key> to add more daily schedules -->
<Key name="Daily Schedule Settings" allowMultiple="Y">
  <!-- Name of schedule -->
  <Value data="Daily-Schedule" name="Name" type="string" />
  <!-- Start hour -->
  <!-- 0, 1, 2... 23 -->
  <!-- This value will be ignored if the schedule is set to be periodic
  ("Interval" field contains value other than -1) -->
  <Value data="21" name="Hour" type="integer" />
  <!-- Start minute -->
  <!-- 0, 1, 2... 59 -->
  <!-- This value will be ignored if the schedule is set to be periodic
  ("Interval" field contains value other than -1) -->
  <Value data="0" name="Minute" type="integer" />
  <!-- Type of backup -->
  <!-- DATABASE: Database (Tablespaces, Control & Init File, Archived Logs) -
  -->
  <!-- LOG : Archived Log -->
  <Value data="" name="Backup type" type="string" />
  <!-- Interval -->
  <!-- 1 : 1 minute -->
  <!-- 2 : 2 minutes -->
```

```

<!-- 3 : 3 minutes -->
<!-- 4 : 4 minutes -->
<!-- 5 : 5 minutes -->
<!-- 6 : 6 minutes -->
<!-- 10 : 10 minutes -->
<!-- 12 : 12 minutes -->
<!-- 15 : 15 minutes -->
<!-- 20 : 20 minutes -->
<!-- 30 : 30 minutes -->
<!-- 60 : 1 hour -->
<!-- 120: 2 hours -->
<!-- 180: 3 hours -->
<!-- 240: 4 hours -->
<!-- 360: 6 hours -->
<!-- 480: 8 hours -->
<!-- 720: 12 hours -->
<!-- A value of -1 means a non-periodic normal schedule -->
<Value data="-1" name="Interval" type="integer" />
</Key>

```

Weekly Schedule Settings

Set backup jobs to run weekly at the time you specified (start backup “at” or normal backup schedule) or at intervals of minutes/hours (start backup “every” or periodic backup schedule).

- **Name of schedule** – name of the backup schedule.
- **Start hour** – the starting hour of the backup, from 0-23. This value will apply for normal backup schedule or start backup “at”.
- **Start minute** – the starting minute of the backup, from 0-59. This value will apply for normal backup schedule or start backup “at”.
- **Type of backup** – the type of backup schedule:
 - **Database** – this type of backup includes Tablespaces, Control & Init File and Archived Logs.
 - **Archived Log** – this type of backup only includes Archived Logs.
- **Interval** – the frequency in minutes or hours when the backup would start, from 1-30 in minutes and 60-720 in hours. This value will apply for periodic backup schedule or start backup “every”.
- **Backup on these days of the week** – choose to enable or disable backup on each day in a week.

```

<!-- Weekly settings -->
<!-- Copy and paste the whole <Key> to add more weekly schedules -->
<Key name="Weekly Schedule Settings" allowMultiple="Y">
  <!-- Name of schedule -->
  <Value data="Weekly-Schedule" name="Name" type="string" />
  <!-- Start hour -->
  <!-- 0, 1, 2... 23 -->
  <!-- This value will be ignored if the schedule is set to be periodic
  ("Interval" field contains value other than -1) -->
  <Value data="21" name="Hour" type="integer" />

```

```

        <!-- Start minute -->
        <!-- 0, 1, 2... 59 -->
        <!-- This value will be ignored if the schedule is set to be periodic
        ("Interval" field contains value other than -1) -->
        <Value data="0" name="Minute" type="integer" />
        <!-- Type of backup -->
        <!-- DATABASE: Database(Tablespace, Control & Init File, Archived Logs) -
->

        <!-- LOG      : Archived Log -->
        <Value data="" name="Backup type" type="string" />
        <!-- Interval -->
        <!-- 1   : 1 minute -->
        <!-- 2   : 2 minutes -->
        <!-- 3   : 3 minutes -->
        <!-- 4   : 4 minutes -->
        <!-- 5   : 5 minutes -->
        <!-- 6   : 6 minutes -->
        <!-- 10  : 10 minutes -->
        <!-- 12  : 12 minutes -->
        <!-- 15  : 15 minutes -->
        <!-- 20  : 20 minutes -->
        <!-- 30  : 30 minutes -->
        <!-- 60  : 1 hour -->
        <!-- 120 : 2 hours -->
        <!-- 180 : 3 hours -->
        <!-- 240 : 4 hours -->
        <!-- 360 : 6 hours -->
        <!-- 480 : 8 hours -->
        <!-- 720 : 12 hours -->
        <!-- A value of -1 means a non-periodic normal schedule -->
        <Value data="-1" name="Interval" type="integer" />
        <!-- Backup on these days of the week -->
        <!-- Y: Yes -->
        <!-- N: No -->
        <Value data="Y" name="Sunday" type="boolean" />
        <Value data="Y" name="Monday" type="boolean" />
        <Value data="Y" name="Tuesday" type="boolean" />
        <Value data="Y" name="Wednesday" type="boolean" />
        <Value data="Y" name="Thursday" type="boolean" />
        <Value data="Y" name="Friday" type="boolean" />
        <Value data="Y" name="Saturday" type="boolean" />
</Key>

```

Monthly Schedule Settings

Set backup jobs to run monthly at the time you specified.

- **Name of schedule** – name of the backup schedule.
- **Start hour** – the starting hour of the backup, from 0-23. This value will apply for normal backup schedule or start backup “at”.
- **Start minute** – the starting minute of the backup, from 0-59. This value will apply for normal backup schedule or start backup “at”.

- **Type of backup** – the type of backup schedule:
 - **Database** – this type of backup includes Tablespaces, Control & Init File and Archived Logs.
 - **Archived Log** – this type of backup only includes Archived Logs.
- **Schedule date of month** – the frequency in minutes or hours when the backup would start, from 1-30 in minutes and 60-720 in hours. This value will apply for periodic backup schedule or start backup “every”.
- **Backup [Occurrence + Criteria] format**

You can set the backup to perform on a specified week (**Occurrence, First / Second / Third / Last**) and on a specified day of the week (**Criteria, Sun thru Sat**), for instance, the third Wednesday in a month.

- **Backup occurrence** – set the week, i.e., First / Second / Third / Last. If you have set an exact date in the previous “Schedule date of month” configuration, this setting will be ignored.
- **Backup criteria** – set a day of the week, i.e., Sunday thru Saturday. If you have set an exact date in the previous “Schedule date of month” configuration, this setting will be ignored.

```
<!-- Monthly settings -->
<!-- Copy and paste the whole <Key> to add more monthly schedules -->
<Key name="Monthly Schedule Settings" allowMultiple="Y">
  <!-- Name of schedule -->
  <Value data="Monthly-Schedule" name="Name" type="string" />
  <!-- Start hour -->
  <!-- 0, 1, 2... 23 -->
  <!-- This value will be ignored if the schedule is set to be periodic
  ("Interval" field contains value other than -1) -->
  <Value data="21" name="Hour" type="integer" />
  <!-- Start minute -->
  <!-- 0, 1, 2... 59 -->
  <!-- This value will be ignored if the schedule is set to be periodic
  ("Interval" field contains value other than -1) -->
  <Value data="0" name="Minute" type="integer" />
  <!-- Type of backup -->
  <!-- DATABASE: Database (Tablespaces, Control & Init File, Archived Logs) -
  -->
  <!-- LOG      : Archived Log -->
  <Value data="" name="Backup type" type="string" />
  <!-- Schedule date of month -->
  <!-- 1, 2, 3... 31 -->
  <!-- 32: Last -->
  <!-- Set to 0 if you want to use the format of occurrence + criteria, e.g.
  Third Wednesday, instead -->
  <Value data="1" name="Schedule Date" type="integer" />
  <!-- Backup occurrence -->
  <!-- First / Second / Third / Fourth / Last -->
  <!-- If "Schedule Date" is not zero, this value will be ignored -->
  <Value data="First" name="Occurrence" type="string" />
  <!-- Backup criteria -->
  <!-- Sunday / Monday / Tuesday / Wednesday / Thursday / Friday / Saturday
```

```

/ Weekday / Weekend -->
  <!-- If "Schedule Date" is not zero, this value will be ignored -->
  <Value data="Friday" name="Criteria" type="string" />
</Key>

```

Custom Schedule Settings

Set backup jobs to run monthly at the time you specified.

- **Name of schedule** – name of the backup schedule.
- **Start hour** – the starting hour of the backup, from 0-23. This value will apply for normal backup schedule or start backup “at”.
- **Start minute** – the starting minute of the backup, from 0-59. This value will apply for normal backup schedule or start backup “at”.
- **Type of backup** – the type of backup schedule:
 - **Database** – this type of backup includes Tablespaces, Control & Init File and Archived Logs.
 - **Archived Log** – this type of backup only includes Archived Logs.
- **Date for performing custom schedule backup** – enter a specific date when you would like the backup to perform. The date format should be in YYYY-MM-DD.

```

<!-- Custom settings -->
<!-- Copy and paste the whole <Key> to add more custom schedules -->
<Key name="Custom Schedule Settings" allowMultiple="Y">
  <!-- Name of schedule -->
  <Value data="Custom" name="Name" type="string" />
  <!-- Start hour -->
  <!-- 0, 1, 2... 23 -->
  <!-- This value will be ignored if the schedule is set to be periodic
  ("Interval" field contains value other than -1) -->
  <Value data="21" name="Hour" type="integer" />
  <!-- Start minute -->
  <!-- 0, 1, 2... 59 -->
  <!-- This value will be ignored if the schedule is set to be periodic
  ("Interval" field contains value other than -1) -->
  <Value data="0" name="Minute" type="integer" />
  <!-- Type of backup -->
  <!-- DATABASE: Database (Tablespaces, Control & Init File, Archived Logs) -
  ->
  <!-- LOG : Archived Log -->
  <Value data="" name="Backup type" type="string" />
  <!-- Date for performing custom schedule backup -->
  <!-- Input in the format of YYYY-MM-DD -->
  <Value data="2022-2-14" name="Schedule Date" type="string" />
</Key>

```

There are two (2) default backup schedules:

- Tablespace Backup Schedule
- Archived Redo Log Backup Schedule

Tablespace Backup Schedule - This backup schedule will automatically run weekly every Friday at 23:00.

```
<!-- Settings for your scheduled backups -->
  <Key name="Schedule Settings">
    <!-- Enable scheduled backup on this computer -->
      <!-- Y: Yes -->
      <!-- N: No -->
    <Value data="N" name="Enable" type="boolean" />
    <!-- Weekly settings -->
    <!-- Copy and paste the whole <Key> to add more weekly
schedules -->

    <Key name="Weekly Schedule Settings" allowMultiple="Y">
      <!-- Schedule ID (Read Only) -->
      <Value data="1434946034821" name="ID" type="string" />
      <!-- Name of schedule -->
      <Value data="Tablespace Backup Schedule" name="Name"
type="string" />

      <!-- Start hour -->
      <!-- 0, 1, 2... 23 -->
      <!-- This value will be ignored if the schedule is set to be
periodic ("Interval" field contains value other than -1) -->
      <Value data="23" name="Hour" type="integer" />
      <!-- Start minute -->
      <!-- 0, 1, 2... 59 -->
      <!-- This value will be ignored if the schedule is set to be
periodic ("Interval" field contains value other than -1) -->
      <Value data="0" name="Minute" type="integer" />
      <!-- Type of backup -->
      <!-- DATABASE: Database (Tablespaces, Control & Init File,
Archived Logs) -->

      <!-- LOG      : Archived Log -->
      <Value data="DATABASE" name="Backup type" type="string" />
      <!-- Interval -->
      <!-- 1   : 1 minute -->
      <!-- 2   : 2 minutes -->
      <!-- 3   : 3 minutes -->
      <!-- 4   : 4 minutes -->
      <!-- 5   : 5 minutes -->
      <!-- 6   : 6 minutes -->
      <!-- 10  : 10 minutes -->
      <!-- 12  : 12 minutes -->
      <!-- 15  : 15 minutes -->
      <!-- 20  : 20 minutes -->
      <!-- 30  : 30 minutes -->
      <!-- 60  : 1 hour -->
      <!-- 120 : 2 hours -->
      <!-- 180 : 3 hours -->
      <!-- 240 : 4 hours -->
      <!-- 360 : 6 hours -->
      <!-- 480 : 8 hours -->
      <!-- 720 : 12 hours -->

      <!-- A value of -1 means a non-periodic normal schedule -->
      <Value data="-1" name="Interval" type="integer" />
      <!-- Backup on these days of the week -->
```

```

        <!-- Y: Yes -->
        <!-- N: No -->
        <Value data="N" name="Sunday" type="boolean" />
        <Value data="N" name="Monday" type="boolean" />
        <Value data="N" name="Tuesday" type="boolean" />
        <Value data="N" name="Wednesday" type="boolean" />
        <Value data="N" name="Thursday" type="boolean" />
        <Value data="Y" name="Friday" type="boolean" />
        <Value data="N" name="Saturday" type="boolean" />
    </Key>

```

Archived Redo Log Backup Schedule – This backup schedule will automatically run weekly every Monday, Tuesday, Wednesday and Thursday at 23:00.

```

<!-- Weekly settings -->
    <!-- Copy and paste the whole <Key> to add more weekly schedules -->
    <Key name="Weekly Schedule Settings" allowMultiple="Y">
        <!-- Schedule ID (Read Only) -->
        <Value data="1434946034822" name="ID" type="string" />
        <!-- Name of schedule -->
        <Value data="Archived Redo Log Backup Schedule" name="Name"
type="string" />
        <!-- Start hour -->
        <!-- 0, 1, 2... 23 -->
        <!-- This value will be ignored if the schedule is set to be periodic
("Interval" field contains value other than -1) -->
        <Value data="23" name="Hour" type="integer" />
        <!-- Start minute -->
        <!-- 0, 1, 2... 59 -->
        <!-- This value will be ignored if the schedule is set to be periodic
("Interval" field contains value other than -1) -->
        <Value data="0" name="Minute" type="integer" />
        <!-- Type of backup -->
        <!-- DATABASE: Database (Tablesapces, Control & Init File, Archived
Logs) -->
        <!-- LOG : Archived Log -->
        <Value data="LOG" name="Backup type" type="string" />
        <!-- Interval -->
        <!-- 1 : 1 minute -->
        <!-- 2 : 2 minutes -->
        <!-- 3 : 3 minutes -->
        <!-- 4 : 4 minutes -->
        <!-- 5 : 5 minutes -->
        <!-- 6 : 6 minutes -->
        <!-- 10 : 10 minutes -->
        <!-- 12 : 12 minutes -->
        <!-- 15 : 15 minutes -->
        <!-- 20 : 20 minutes -->
        <!-- 30 : 30 minutes -->
        <!-- 60 : 1 hour -->
        <!-- 120: 2 hours -->
        <!-- 180: 3 hours -->
        <!-- 240: 4 hours -->
        <!-- 360: 6 hours -->
        <!-- 480: 8 hours -->
        <!-- 720: 12 hours -->
        <!-- A value of -1 means a non-periodic normal schedule -->
        <Value data="-1" name="Interval" type="integer" />
        <!-- Backup on these days of the week -->
        <!-- Y: Yes -->
    </Key>

```



```

<!-- N: No -->
<Value data="N" name="Sunday" type="boolean" />
<Value data="Y" name="Monday" type="boolean" />
<Value data="Y" name="Tuesday" type="boolean" />
<Value data="Y" name="Wednesday" type="boolean" />
<Value data="Y" name="Thursday" type="boolean" />
<Value data="N" name="Friday" type="boolean" />
<Value data="N" name="Saturday" type="boolean" />
</Key>
</Key>

```

Destination Settings

This shows the number of configured destination which the backup files will be stored.

```

<!-- This is the collection of destinations -->
<Key name="Destination Settings">
<Value data="1" name="concurrency-level" type="integer" />

```

If more than one destination is configured, the following settings will be shown.

- **AhsayCBS Destination Settings** – this option allows backup files to be stored on the server.
- **Local Destination Settings** – this option allows backup files to be stored on your local computer. Enter the directory path where you would like the backup files to be stored.

```

<!-- AhsayCBS destination is where the files are backup to
server -->
<Key name="AhsayCBS Destination Settings" allowMultiple="Y">
</Key>
<!-- Local destination means backup files are stored in your computer -->
<!-- Copy and paste the whole <Key> to add more local
destinations -->
<Key name="Local Destination Settings" allowMultiple="Y">
<!-- Name of your destination -->
<Value data="" name="Name" type="string" />
<!-- Directory to store your backup files -->
<!-- e.g. /tmp -->
<Value data="" name="Local Path" type="string" />
</Key>

```

Deduplication Setting

A checksum verification of each backup file which was split into several blocks of varying size will be performed to compare its content and identify which block is duplicated. There are 2 deduplication scope in this setting.

- **Same file path within the same backup set** - deduplication applies to the current backup job and it applies to duplicated contents within a file.
- **All files within the same backup set** - deduplication applies across different files in the backup set.

```

<!-- This shows the deduplication setting -->
<Key name="Deduplication Setting">
<!-- Enable deduplication -->
<!-- Y: Yes -->
<!-- N: No -->
<Value data="Y" name="Enable" type="boolean" />
<!-- Deduplication scope -->

```

```
<!-- F: Same file path within the same backup set -->
<!-- B: All files within the same backup set -->
<Value data="B" name="Deduplication level" type="string" />
</Key>
</Key>
</Setting>
```

Appendix C Example of Backup Log

This appendix shows the complete backup log for each backup mode: **Database** and **Archived Log** backup

Database backup

Example of database backup

```
# sh RunBackupSet.sh "BackupSet_01"

-

Using APP_HOME      : /usr/local/obm
Using SETTING_HOME  :
Using JAVA_HOME     : /usr/local/obm/jvm
Using JAVA_EXE      : /usr/local/obm/jvm/bin/java
Using JAVA_OPTS     : -Xrs -Xms128m -Xmx2048m -
XX:MaxDirectMemorySize=512m -client -
Dsun.nio.PageAlignDirectMemory=true
Using JNI_PATH      : -Djava.library.path=../LinX64
Using CLASSPATH     : ../cb.jar

-

Running Backup Set - 'BackupSet_01' ...
[2022/02/22 12:10:38] [info] [-] Start [ AhsayOBM v9.1.2.0 ]
[2022/02/22 12:10:39] [info] [-] Saving encrypted backup set
encryption keys to server...
[2022/02/22 12:10:41] [info] [1645502452076] Start Backup ...
Database (Tablespaces, Control & Init File, Archived Logs)
[Deduplication: enabled, Deduplication scope: All files within the
same backup set, Migrate Delta: disabled]
[2022/02/22 12:10:41] [info] [1645502452076] Using Temporary Directory
/temp/1645502391205/OBS@1645502452076
[2022/02/22 12:10:43] [info] [-] Start running pre-commands
[2022/02/22 12:10:43] [info] [-] Finished running pre-commands
[2022/02/22 12:10:43] [info] [1645502452076] Downloading server file
list...
[2022/02/22 12:10:43] [info] [1645502452076] Downloading server file
list... Completed
[2022/02/22 12:10:44] [info] [-] Initializing Oracle module...
[2022/02/22 12:10:46] [info] [-] Skipping temporary tablespace
"PDB/TEMP"
[2022/02/22 12:10:46] [info] [-] Start backing up tablespace
"PDB/SYSAUX"
[2022/02/22 12:10:46] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/sysaux0
1.dbf" {1}
[2022/02/22 12:10:53] [info] [-] End backing up tablespace
"PDB/SYSAUX"
[2022/02/22 12:10:53] [info] [-] Start backing up tablespace
"PDB/SYSTEM"1
```

```

[2022/02/22 12:10:56] [info] [-] End backing up tablespace
"PDB/SYSTEM"
[2022/02/22 12:10:56] [info] [-] Start backing up tablespace
"PDB/UNDOTBS1"
[2022/02/22 12:10:56] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/undotbs
01.dbf" {1}
[2022/02/22 12:10:58] [info] [-] End backing up tablespace
"PDB/UNDOTBS1"
[2022/02/22 12:10:58] [info] [-] Start backing up tablespace
"PDB/USERS"
[2022/02/22 12:10:58] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/users01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/users01
.dbf" {1}
[2022/02/22 12:10:59] [info] [-] End backing up tablespace "PDB/USERS"
[2022/02/22 12:10:59] [info] [-] Start backing up tablespace
"PDB$SEED/SYSAUX"
[2022/02/22 12:10:59] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdbseed/sysaux01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdbseed/sys
aux01.dbf" {1}
[2022/02/22 12:11:08] [info] [-] End backing up tablespace
"PDB$SEED/SYSAUX"
[2022/02/22 12:11:08] [info] [-] Start backing up tablespace
"PDB$SEED/SYSTEM"
[2022/02/22 12:11:08] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdbseed/system01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdbseed/sys
tem01.dbf" {1}
[2022/02/22 12:11:12] [info] [-] End backing up tablespace
"PDB$SEED/SYSTEM"
[2022/02/22 12:11:12] [info] [-] Start backing up tablespace
"PDB$SEED/UNDOTBS1"
[2022/02/22 12:11:12] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdbseed/undotbs01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/pdbseed/und
otbs01.dbf" {1}
[2022/02/22 12:11:14] [info] [-] End backing up tablespace
"PDB$SEED/UNDOTBS1"
[2022/02/22 12:11:14] [info] [-] Start backing up tablespace "SYSAUX"
[2022/02/22 12:11:14] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/sysaux01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/sysaux01.db
f" {1}
[2022/02/22 12:11:47] [info] [-] End backing up tablespace "SYSAUX"
[2022/02/22 12:11:47] [info] [-] Start backing up tablespace "SYSTEM"
[2022/02/22 12:11:47] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/system01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/system01.db
f" {1}
[2022/02/22 12:12:03] [info] [-] End backing up tablespace "SYSTEM"

```

```

[2022/02/22 12:12:03] [info] [-] Start backing up tablespace
"UNDOTBS1"
[2022/02/22 12:12:03] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/undotbs01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/undotbs01.d
bf" {1}
[2022/02/22 12:12:06] [info] [-] End backing up tablespace "UNDOTBS1"
[2022/02/22 12:12:06] [info] [-] Start backing up tablespace "USERS"
[2022/02/22 12:12:06] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/users01.dbf" to
"/temp/1645502391205/SpoolArea/u01/app/oracle/oradata/ORCL/users01.dbf
" {1}
[2022/02/22 12:12:07] [info] [-] End backing up tablespace "USERS"
[2022/02/22 12:12:08] [info] [-] Generating create script for temp
files to "/temp/1645502391205/SpoolArea/addTempFile.sql"
[2022/02/22 12:12:08] [info] [-] Backing up initialization file
(pfile)
[2022/02/22 12:12:09] [info] [-] Backing up initialization file
(spfile)
[2022/02/22 12:12:11] [info] [-] Backing up control file
[2022/02/22 12:12:11] [info] [-] Start "Archived Log" backup
[2022/02/22 12:12:11] [info] [-] End "Archived Log" backup
[2022/02/22 12:12:11] [info] [1645502452076] Backup Database "orcl"
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/database
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app/oracle
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/database/dbs
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app/oracle/oradata
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app/oracle/fast_recovery_area
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app/oracle/oradata/ORCL
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdb
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdbseed
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app/oracle/fast_recovery_area/ORCL
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database

```

```
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
11
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
12
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
13
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
14
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
15
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
16
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
17
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
18
[2022/02/22 12:12:11] [info] [1645502452076] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22
[2022/02/22 12:12:11] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/initrcl.oradump"
[2022/02/22 12:12:11] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/traceCtrlfile.log"
[2022/02/22 12:12:11] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/traceDatafile.log"
[2022/02/22 12:12:11] [info] [1645502452076] [New File]... 100% of
```

```

"Oracle Database Server/u01/database/dbs/spfileorcl.ora"
[2022/02/22 12:12:11] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/addTempFile.sql"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 19% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 19% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 37% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 57% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 37% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 57% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 77% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 77% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 98% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 98% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 12:12:12] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 12:12:13] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 12:12:13] [info] [1645502452076]
com.ahsay.afc.event.d@131e30eb
[2022/02/22 12:12:13] [info] [1645502452076] [New File]... 68% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/users01.dbf"
[2022/02/22 12:12:13] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/users01.dbf"
[2022/02/22 12:12:13] [info] [1645502452076] [New File]... 67% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/users01.dbf"
[2022/02/22 12:12:13] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/users01.dbf"
[2022/02/22 12:12:14] [info] [1645502452076] [New File]... 10% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 12:12:15] [info] [1645502452076] [New File]... 5% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/22 12:12:15] [info] [1645502452076] [New File]... 10% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/system01.dbf"
[2022/02/22 12:12:15] [info] [1645502452076] [New File]... 10% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/undotbs01.dbf"
[2022/02/22 12:12:15] [info] [1645502452076] [New File]... 20% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"

```

```

[2022/02/22 12:12:16] [info] [1645502452076] [New File]... 30% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 12:12:16] [info] [1645502452076] [New File]... 8% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/22 12:12:17] [info] [1645502452076] [New File]... 41% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 12:12:17] [info] [1645502452076] [New File]... 11% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/22 12:12:18] [info] [1645502452076] [New File]... 51% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 12:12:18] [info] [1645502452076] [New File]... 20% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/system01.dbf"
[2022/02/22 12:12:18] [info] [1645502452076] [New File]... 20% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/undotbs01.dbf"
[2022/02/22 12:12:18] [info] [1645502452076] [New File]... 10% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/system01.dbf"
[2022/02/22 12:12:18] [info] [1645502452076] [New File]... 61% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 12:12:19] [info] [1645502452076] [New File]... 14% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/22 12:12:19] [info] [1645502452076] [New File]... 73% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 12:12:19] [info] [1645502452076] [New File]... 83% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 12:12:20] [info] [1645502452076] [New File]... 93% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 12:12:20] [info] [1645502452076] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf", 0.0% of file
size saved by deduplication, number of deduplicated blocks=0, total
number of blocks=66, deduplicated size=0, total size=104,865,792
[2022/02/22 12:12:20] [info] [1645502452076] [New File]... 30% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/undotbs01.dbf"
[2022/02/22 12:12:20] [info] [1645502452076] [New File]... 30% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/system01.dbf"
[2022/02/22 12:12:21] [info] [1645502452076] [New File]... 7% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/sysaux01.dbf"
[2022/02/22 12:12:21] [info] [1645502452076] [New File]... 24% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/22 12:12:22] [info] [1645502452076] [New File]... 8% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/sysaux01.dbf"
[2022/02/22 12:12:22] [info] [1645502452076] [New File]... 40% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/undotbs01.dbf"
[2022/02/22 12:12:22] [info] [1645502452076] [New File]... 40% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/system01.dbf"
[2022/02/22 12:12:23] [info] [1645502452076] [New File]... 9% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/sysaux01.dbf"
[2022/02/22 12:12:23] [info] [1645502452076] [New File]... 34% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/22 12:12:23] [info] [1645502452076] [New File]... 18% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/system01.dbf"
[2022/02/22 12:12:24] [info] [1645502452076] [New File]... 50% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/undotbs01.dbf"

```



```
[2022/02/22 12:12:24] [info] [1645502452076] [New File]... 10% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/sysaux01.dbf"
[2022/02/22 12:12:25] [info] [1645502452076] [New File]... 50% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/system01.dbf"
[2022/02/22 12:12:25] [info] [1645502452076] [New File]... 100% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 12:12:26] [info] [1645502452076] [New File]... 44% of
```

[Content Truncated]

```
[2022/02/22 12:15:30] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_52_k15szoxj_.arc"
[2022/02/22 12:15:30] [info] [1645502452076] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_52_k15szoxj_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=177, deduplicated size=0, total size=198,673,920
[2022/02/22 12:15:30] [info] [1645502452076] [New File]... 70% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_50_k14vpvlp_.arc"
[2022/02/22 12:15:30] [info] [1645502452076] [New File]... 10% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 12:15:30] [info] [1645502452076] [New File]... 62% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_53_k15tj2x9_.arc"
[2022/02/22 12:15:31] [info] [1645502452076] [New File]... 72% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_53_k15tj2x9_.arc"
[2022/02/22 12:15:31] [info] [1645502452076] [New File]... 20% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 12:15:32] [info] [1645502452076] [New File]... 80% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_50_k14vpvlp_.arc"
[2022/02/22 12:15:32] [info] [1645502452076] [New File]... 82% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_53_k15tj2x9_.arc"
[2022/02/22 12:15:33] [info] [1645502452076] [New File]... 30% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
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22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 12:15:33] [info] [1645502452076] [New File]... 92% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_53_k15tj2x9_.arc"
[2022/02/22 12:15:33] [info] [1645502452076] [New File]... 90% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_50_k14vpvlp_.arc"
[2022/02/22 12:15:33] [info] [1645502452076] [New File]... 10% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc"
[2022/02/22 12:15:33] [info] [1645502452076] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_53_k15tj2x9_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=83, deduplicated size=0, total size=93,342,720
[2022/02/22 12:15:34] [info] [1645502452076] [New File]... 40% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 12:15:34] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_50_k14vpvlp_.arc"
[2022/02/22 12:15:34] [info] [1645502452076] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_50_k14vpvlp_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=161, deduplicated size=0, total size=177,518,592
[2022/02/22 12:15:34] [info] [1645502452076] [New File]... 20% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc"
[2022/02/22 12:15:35] [info] [1645502452076] [New File]... 50% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 12:15:35] [info] [1645502452076] [New File]... 30% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc"
[2022/02/22 12:15:36] [info] [1645502452076] [New File]... 60% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 12:15:37] [info] [1645502452076] [New File]... 40% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc"

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[2022/02/22 12:15:38] [info] [1645502452076] [New File]... 12% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:38] [info] [1645502452076] [New File]... 70% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 12:15:38] [info] [1645502452076] [New File]... 22% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:38] [info] [1645502452076] [New File]... 10% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:38] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_53_k15tj2x9_.arc"
[2022/02/22 12:15:38] [info] [1645502452076] [New File]... 50% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c471t_.arc"
[2022/02/22 12:15:38] [info] [1645502452076] [New File]... 34% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:39] [info] [1645502452076] [New File]... 20% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:39] [info] [1645502452076] [New File]... 44% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:39] [info] [1645502452076] [New File]... 80% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 12:15:39] [info] [1645502452076] [New File]... 54% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:39] [info] [1645502452076] [New File]... 30% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:39] [info] [1645502452076] [New File]... 66% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:39] [info] [1645502452076] [New File]... 60% of

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"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc"
[2022/02/22 12:15:40] [info] [1645502452076] [New File]... 76% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:40] [info] [1645502452076] [New File]... 40% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:40] [info] [1645502452076] [New File]... 90% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 12:15:40] [info] [1645502452076] [New File]... 88% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:40] [info] [1645502452076] [New File]... 98% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:40] [info] [1645502452076] [New File]... 50% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:40] [info] [1645502452076] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=32, deduplicated size=0, total size=34,520,064
[2022/02/22 12:15:41] [info] [1645502452076] [New File]... 70% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc"
[2022/02/22 12:15:41] [info] [1645502452076] [New File]... 61% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:41] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 12:15:41] [info] [1645502452076] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=158, deduplicated size=0, total size=175,654,912
[2022/02/22 12:15:41] [info] [1645502452076] [New File]... 71% of
"Oracle Database

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Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:42] [info] [1645502452076] [New File]... 80% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc"
[2022/02/22 12:15:42] [info] [1645502452076] [New File]... 81% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:43] [info] [1645502452076] [New File]... 92% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:43] [info] [1645502452076] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=79, deduplicated size=0, total size=86,957,568
[2022/02/22 12:15:43] [info] [1645502452076] [New File]... 90% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc"
[2022/02/22 12:15:45] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc"
[2022/02/22 12:15:45] [info] [1645502452076] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=159, deduplicated size=0, total size=175,633,920
[2022/02/22 12:15:45] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 12:15:48] [info] [1645502452076] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 12:15:53] [info] [1645502452076] Start validating the
presence and size of backup data in destination "AhsayCBS"...
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000000.bak", Size: 13,280,
OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000001.bak", Size:
776,864, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000002.bak", Size:
67,013,184, OK

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[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000002_000001.bak", Size:
67,011,936, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000002_000002.bak", Size:
66,893,232, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000002_000003.bak", Size:
48,461,248, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000003.bak", Size:
66,768,784, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000004.bak", Size:
66,972,192, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000004_000001.bak", Size:
67,094,160, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000004_000002.bak", Size:
67,057,520, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000004_000003.bak", Size:
6,807,440, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000005.bak", Size:
50,613,024, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000006.bak", Size:
66,969,616, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000006_000001.bak", Size:
1,189,056, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000007.bak", Size:
4,935,488, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000008.bak", Size:
44,926,352, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000009.bak", Size:
17,989,888, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00000a.bak", Size:
1,080,016, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00000b.bak", Size:
24,297,280, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00000c.bak", Size:
37,402,592, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00000d.bak", Size:
```

38,125,984, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00000e.bak", Size:
36,274,976, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00000f.bak", Size:
36,086,048, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000010.bak", Size:
36,054,416, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000011.bak", Size:
37,221,120, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000012.bak", Size:
36,896,496, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000013.bak", Size:
36,751,456, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000014.bak", Size:
35,211,152, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000015.bak", Size:
35,906,128, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000016.bak", Size:
36,274,976, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000017.bak", Size:
35,363,072, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000018.bak", Size:
37,000,784, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000019.bak", Size:
35,557,904, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00001a.bak", Size:
9,610,976, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00001b.bak", Size:
37,600,720, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00001c.bak", Size:
28,792,592, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00001d.bak", Size:
35,664,096, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00001e.bak", Size:
37,667,232, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:

"1645502391205/blocks/2022-02-22-12-10-29/0/00001f.bak", Size:
35,884,208, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000020.bak", Size:
34,860,896, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000021.bak", Size:
36,990,880, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000022.bak", Size:
35,727,088, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000023.bak", Size:
35,344,096, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000024.bak", Size:
34,080,032, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000025.bak", Size:
34,071,296, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000026.bak", Size:
34,287,968, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000027.bak", Size:
34,563,392, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000028.bak", Size:
34,856,768, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000029.bak", Size:
35,041,872, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00002a.bak", Size:
35,096,912, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00002b.bak", Size:
35,027,696, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00002c.bak", Size:
34,108,672, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00002d.bak", Size:
34,023,168, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00002e.bak", Size:
34,935,312, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/00002f.bak", Size:
34,208,832, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000030.bak", Size:
36,442,576, OK


```

[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000031.bak", Size:
35,388,032, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000032.bak", Size:
54,417,664, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000033.bak", Size:
39,552,800, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000034.bak", Size:
34,512,144, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000035.bak", Size:
19,318,944, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000036.bak", Size:
34,391,456, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000037.bak", Size:
35,831,104, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000038.bak", Size:
9,909,376, OK
[2022/02/22 12:15:53] [info] [1645502452076] File:
"1645502391205/blocks/2022-02-22-12-10-29/0/000039.bak", Size:
17,534,992, OK
[2022/02/22 12:15:53] [info] [1645502452076] Finished validating the
presence and size of backup data in destination "AhsayCBS"
[2022/02/22 12:15:53] [info] [1645502452076] Total New Files = 66
[2022/02/22 12:15:53] [info] [1645502452076] Total New Directories =
26
[2022/02/22 12:15:53] [info] [1645502452076] Total New Links = 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Updated Files = 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Deleted Files = 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Deleted Directories
= 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Deleted Links = 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Moved Files = 0
[2022/02/22 12:15:53] [info] [1645502452076] Total Dedupe Saving for
this job = 554.08MB
[2022/02/22 12:15:53] [info] [1645502452076] Total Backup Data Size
for this job = 11.22GB
[2022/02/22 12:15:53] [info] [1645502452076] Total Dedupe Saving for
destination = 554.08MB
[2022/02/22 12:15:53] [info] [1645502452076] Total Backup Data Size
for destination = 11.22GB
[2022/02/22 12:15:53] [info] [-] Deleting temporary file
/temp/1645502391205/SpoolArea
[2022/02/22 12:15:53] [info] [-] Removing archived logs older than 60
day(s)
[2022/02/22 12:15:53] [info] [-] [Delete archived logs]
/u01/database/bin/rman target system/*****@orcl nocatalog

```

```

cmdfile=UpdateOracleRmanRecords.rman '60'
[2022/02/22 12:15:54] [info] [-] [Delete archived logs]
[2022/02/22 12:15:54] [info] [-] [Delete archived logs] Recovery
Manager: Release 18.0.0.0.0 - Production on Tue Feb 22 12:15:54 2022
[2022/02/22 12:15:54] [info] [-] [Delete archived logs] Version
18.3.0.0.0
[2022/02/22 12:15:54] [info] [-] [Delete archived logs]
[2022/02/22 12:15:54] [info] [-] [Delete archived logs] Copyright (c)
1982, 2018, Oracle and/or its affiliates. All rights reserved.
[2022/02/22 12:15:54] [info] [-] [Delete archived logs]
[2022/02/22 12:15:54] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 12:15:54] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 12:15:54] [info] [-] [Delete archived logs]
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 12:15:55] [info] [-] [Delete archived logs]
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 12:15:55] [info] [-] [Delete archived logs]
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 12:15:55] [info] [-] [Delete archived logs]
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 12:15:55] [info] [-] [Delete archived logs]
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] PL/SQL package
SYS.DBMS_BACKUP_RESTORE version 18.01.00.00 in TARGET database is not
current
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] PL/SQL package
SYS.DBMS_RCVMAN version 18.01.00.00 in TARGET database is not current
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] connected to
target database: ORCL (DBID=1592627154)
[2022/02/22 12:15:55] [info] [-] [Delete archived logs] using target
database control file instead of recovery catalog
[2022/02/22 12:15:55] [info] [-] [Delete archived logs]
[2022/02/22 12:15:56] [info] [-] [Delete archived logs] RMAN> run {
[2022/02/22 12:15:56] [info] [-] [Delete archived logs] 2> DELETE
ARCHIVELOG ALL COMPLETED BEFORE 'SYSDATE-60';

```

```

[2022/02/22 12:15:56] [info] [-] [Delete archived logs] 3> CROSSCHECK
ARCHIVELOG ALL;
[2022/02/22 12:15:56] [info] [-] [Delete archived logs] 4> DELETE
EXPIRED ARCHIVELOG ALL;
[2022/02/22 12:15:56] [info] [-] [Delete archived logs] 5> }
[2022/02/22 12:15:56] [info] [-] [Delete archived logs] 6> Exit
[2022/02/22 12:15:56] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 12:15:56] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 12:15:56] [info] [-] [Delete archived logs]
[2022/02/22 12:15:56] [info] [-] [Delete archived logs] allocated
channel: ORA_DISK_1
[2022/02/22 12:15:56] [info] [-] [Delete archived logs] channel
ORA_DISK_1: SID=26 device type=DISK
[2022/02/22 12:15:57] [info] [-] [Delete archived logs]
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] released
channel: ORA_DISK_1
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] allocated
channel: ORA_DISK_1
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] channel
ORA_DISK_1: SID=26 device type=DISK
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
1/o1_mf_1_10_k0dcqcjy_.arc RECID=9 STAMP=1096393195
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_11_k0f2lq0s_.arc RECID=10 STAMP=1096416599
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_12_k0fypx5q_.arc RECID=11 STAMP=1096445405
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_13_k0gd6c8h_.arc RECID=12 STAMP=1096459211
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_14_k0gt8kxb_.arc RECID=13 STAMP=1096473617
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation

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succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_15_k0h757gg_.arc RECID=14 STAMP=1096486823
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_16_k0hn1xkl_.arc RECID=15 STAMP=1096500029
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
3/o1_mf_1_17_k0jj69s0_.arc RECID=16 STAMP=1096528842
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
3/o1_mf_1_18_k0jx2wt5_.arc RECID=17 STAMP=1096542045
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
3/o1_mf_1_19_k0k8t8tf_.arc RECID=18 STAMP=1096554057
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
3/o1_mf_1_20_k0kopyw7_.arc RECID=19 STAMP=1096567263
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
3/o1_mf_1_21_k0l0v9wz_.arc RECID=20 STAMP=1096578666
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
4/o1_mf_1_22_k0lczyq0_.arc RECID=21 STAMP=1096590072
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
4/o1_mf_1_23_k0nr3l57_.arc RECID=22 STAMP=1096668018

```

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[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
5/ol_mf_1_24_k0o4j45x_.arc RECID=23 STAMP=1096680708
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
6/ol_mf_1_25_k0rt1hrl_.arc RECID=24 STAMP=1096801071
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
6/ol_mf_1_26_k0rw54qx_.arc RECID=25 STAMP=1096803236
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
7/ol_mf_1_27_k0t8p9fj_.arc RECID=26 STAMP=1096848841
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
7/ol_mf_1_28_k0vmx1b9_.arc RECID=27 STAMP=1096893090
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
8/ol_mf_1_29_k0wwnnh5_.arc RECID=28 STAMP=1096934807
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
8/ol_mf_1_30_k0yr2f4d_.arc RECID=29 STAMP=1096995667
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/ol_mf_1_31_k0zksd0_.arc RECID=30 STAMP=1097021882
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1

```

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9/o1_mf_1_32_k10b9wj4_.arc RECID=31 STAMP=1097047104
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_33_k10kxqmq_.arc RECID=32 STAMP=1097054907
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_34_k10skmk2_.arc RECID=33 STAMP=1097062710
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_35_k1115hk5_.arc RECID=34 STAMP=1097070514
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_36_k1186smj_.arc RECID=35 STAMP=1097077724
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_37_k11htpjs_.arc RECID=36 STAMP=1097085530
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_38_k11qgkxq_.arc RECID=37 STAMP=1097093332
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_39_k11yk5qq_.arc RECID=38 STAMP=1097100582
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_40_k1263jxd_.arc RECID=39 STAMP=1097108339
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file

```

```

name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_41_k12t462l_.arc RECID=40 STAMP=1097128847
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_42_k1340123_.arc RECID=41 STAMP=1097138967
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_43_k13c1p9v_.arc RECID=42 STAMP=1097146169
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:57] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_44_k13l2t9p_.arc RECID=43 STAMP=1097153374
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_45_k13s3vrh_.arc RECID=44 STAMP=1097160573
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_46_k1404zk7_.arc RECID=45 STAMP=1097167777
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_47_k147rxcy_.arc RECID=46 STAMP=1097175588
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_48_k14gt2bn_.arc RECID=47 STAMP=1097182789
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_49_k14n2xfv_.arc RECID=48 STAMP=1097188191
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log

```



```

file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
1/o1_mf_1_50_k14vpvlp_.arc RECID=49 STAMP=1097195997
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
1/o1_mf_1_51_k15szl04_.arc RECID=50 STAMP=1097226982
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
1/o1_mf_1_52_k15szoxj_.arc RECID=51 STAMP=1097227000
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
1/o1_mf_1_53_k15tj2x9_.arc RECID=52 STAMP=1097227524
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
1/o1_mf_1_54_k17c47lt_.arc RECID=53 STAMP=1097277321
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
2/o1_mf_1_55_k17kvw9x_.arc RECID=54 STAMP=1097284222
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
2/o1_mf_1_56_k18o0scj_.arc RECID=55 STAMP=1097320218
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
2/o1_mf_1_57_k18rnsjq_.arc RECID=56 STAMP=1097323930
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] Crosschecked
48 objects
[2022/02/22 12:15:58] [info] [-] [Delete archived logs]
[2022/02/22 12:15:58] [info] [-] [Delete archived logs]
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] released
channel: ORA_DISK_1
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] allocated
channel: ORA_DISK_1

```



```
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] channel
ORA_DISK_1: SID=26 device type=DISK
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] specification
does not match any archived log in the repository
[2022/02/22 12:15:58] [info] [-] [Delete archived logs]
[2022/02/22 12:15:58] [info] [-] [Delete archived logs] Recovery
Manager complete.
[2022/02/22 12:15:59] [info] [-] Saving server information to
destination.
[2022/02/22 12:16:00] [info] [1645502452076] Saving encrypted backup
file index to 1645502391205/blocks/2022-02-22-12-10-29 at destination
AhsayCBS...
[2022/02/22 12:16:00] [info] [-] Start running post-commands
[2022/02/22 12:16:00] [info] [-] Finished running post-commands
[2022/02/22 12:16:03] [info] [1645502452076] Deleting temporary file
/temp/1645502391205/OBS@1645502452076
[2022/02/22 12:16:04] [info] [1645502452076] Backup Completed
Successfully
```

Archived Log backup

Example of archived log backup

```
# sh RunBackupSet.sh "BackupSet_02"

-
Using APP_HOME      : /usr/local/obm
Using SETTING_HOME  :
Using JAVA_HOME     : /usr/local/obm/jvm
Using JAVA_EXE      : /usr/local/obm/jvm/bin/java
Using JAVA_OPTS     : -Xrs -Xms128m -Xmx2048m -
XX:MaxDirectMemorySize=512m -client -
Dsun.nio.PageAlignDirectMemory=true
Using JNI_PATH      : -Djava.library.path=../LinX64
Using CLASSPATH     : ../cb.jar
-
Running Backup Set - 'BackupSet_02' ...
[2022/02/22 14:07:54] [info] [-] Start [ AhsayOBM v9.1.2.0 ]
[2022/02/22 14:07:55] [info] [-] Saving encrypted backup set
encryption keys to server...
[2022/02/22 14:07:57] [info] [1645509591771] Start Backup ...
Database(Tablespaces, Control & Init File, Archived Logs)
[Deduplication: enabled, Deduplication scope: All files within the
same backup set, Migrate Delta: disabled]
[2022/02/22 14:07:57] [info] [1645509591771] Using Temporary Directory
/temp/1645509537775/OBS@1645509591771
[2022/02/22 14:07:59] [info] [-] Start running pre-commands
[2022/02/22 14:07:59] [info] [-] Finished running pre-commands
[2022/02/22 14:07:59] [info] [1645509591771] Downloading server file
list...
[2022/02/22 14:07:59] [info] [1645509591771] Downloading server file
list... Completed
```

```

[2022/02/22 14:08:00] [info] [-] Initializing Oracle module...
[2022/02/22 14:08:01] [info] [-] Skipping temporary tablespace
"PDB/TEMP"
[2022/02/22 14:08:01] [info] [-] Start backing up tablespace
"PDB/SYSAUX"
[2022/02/22 14:08:01] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/sysaux0
1.dbf" {1}
[2022/02/22 14:08:04] [info] [-] End backing up tablespace
"PDB/SYSAUX"
[2022/02/22 14:08:04] [info] [-] Start backing up tablespace
"PDB/SYSTEM"
[2022/02/22 14:08:04] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/system01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/system0
1.dbf" {1}
[2022/02/22 14:08:12] [info] [-] End backing up tablespace
"PDB/SYSTEM"
[2022/02/22 14:08:12] [info] [-] Start backing up tablespace
"PDB/UNDOTBS1"
[2022/02/22 14:08:12] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/undotbs
01.dbf" {1}
[2022/02/22 14:08:13] [info] [-] End backing up tablespace
"PDB/UNDOTBS1"
[2022/02/22 14:08:13] [info] [-] Start backing up tablespace
"PDB/USERS"
[2022/02/22 14:08:13] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdb/users01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdb/users01
.dbf" {1}
[2022/02/22 14:08:15] [info] [-] End backing up tablespace "PDB/USERS"
[2022/02/22 14:08:15] [info] [-] Start backing up tablespace
"PDB$SEED/SYSAUX"
[2022/02/22 14:08:15] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdbseed/sysaux01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdbseed/sys
aux01.dbf" {1}
[2022/02/22 14:08:19] [info] [-] End backing up tablespace
"PDB$SEED/SYSAUX"
[2022/02/22 14:08:19] [info] [-] Start backing up tablespace
"PDB$SEED/SYSTEM"
[2022/02/22 14:08:19] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/pdbseed/system01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdbseed/sys
tem01.dbf" {1}
[2022/02/22 14:08:25] [info] [-] End backing up tablespace
"PDB$SEED/SYSTEM"
[2022/02/22 14:08:25] [info] [-] Start backing up tablespace
"PDB$SEED/UNDOTBS1"
[2022/02/22 14:08:25] [info] [-] Backing up datafile

```

```

"/u01/app/oracle/oradata/ORCL/pdbseed/undotbs01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/pdbseed/und
otbs01.dbf" {1}
[2022/02/22 14:08:27] [info] [-] End backing up tablespace
"PDB$SEED/UNDOTBS1"
[2022/02/22 14:08:28] [info] [-] Start backing up tablespace "SYSAUX"
[2022/02/22 14:08:28] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/sysaux01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/sysaux01.db
f" {1}
[2022/02/22 14:09:00] [info] [-] End backing up tablespace "SYSAUX"
[2022/02/22 14:09:02] [info] [-] Start backing up tablespace "SYSTEM"
[2022/02/22 14:09:02] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/system01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/system01.db
f" {1}
[2022/02/22 14:09:17] [info] [-] End backing up tablespace "SYSTEM"
[2022/02/22 14:09:17] [info] [-] Start backing up tablespace
"UNDOTBS1"
[2022/02/22 14:09:17] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/undotbs01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/undotbs01.d
bf" {1}
[2022/02/22 14:09:21] [info] [-] End backing up tablespace "UNDOTBS1"
[2022/02/22 14:09:21] [info] [-] Start backing up tablespace "USERS"
[2022/02/22 14:09:21] [info] [-] Backing up datafile
"/u01/app/oracle/oradata/ORCL/users01.dbf" to
"/temp/1645509537775/SpoolArea/u01/app/oracle/oradata/ORCL/users01.dbf
" {1}
[2022/02/22 14:09:22] [info] [-] End backing up tablespace "USERS"
[2022/02/22 14:09:22] [info] [-] Generating create script for temp
files to "/temp/1645509537775/SpoolArea/addTempFile.sql"
[2022/02/22 14:09:22] [info] [-] Backing up initialization file
(pfile)
[2022/02/22 14:09:23] [info] [-] Backing up initialization file
(spfile)
[2022/02/22 14:09:29] [info] [-] Backing up control file
[2022/02/22 14:09:29] [info] [-] Start "Archived Log" backup
[2022/02/22 14:09:29] [info] [-] End "Archived Log" backup
[2022/02/22 14:09:29] [info] [1645509591771] Backup Database "orcl"
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/app
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/database
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/app/oracle
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/database
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle

```

```

Database Server/u01/app/oracle
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/database/dbs
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/app/oracle/oradata
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/app/oracle/fast_recovery_area
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/app/oracle/oradata/ORCL
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/app/oracle/fast_recovery_area/ORCL
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdb
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdbseed
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
11
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
12
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
13
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
14
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
13
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
15
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
16
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
14
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database

```

```

Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
16
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
17
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
18
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22
[2022/02/22 14:09:30] [info] [1645509591771] [New Directory]... Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 100% of
"Oracle Database Server/traceCtrlfile.log"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 100% of
"Oracle Database Server/addTempFile.sql"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 100% of
"Oracle Database Server/u01/database/dbs/spfileorcl.ora"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 100% of
"Oracle Database Server/initiorcl.oradump"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 100% of
"Oracle Database Server/traceDatafile.log"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 19% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 68% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/users01.dbf"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 100% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/users01.dbf"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 37% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 19% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 57% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 37% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 77% of

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"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 14:09:30] [info] [1645509591771] [New File]... 57% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 14:09:31] [info] [1645509591771] [New File]... 98% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 14:09:31] [info] [1645509591771] [New File]... 100% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/22 14:09:31] [info] [1645509591771] [New File]... 77% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 14:09:31] [info] [1645509591771] [New File]... 98% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 14:09:31] [info] [1645509591771] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/22 14:09:31] [info] [1645509591771]
com.ahsay.afc.event.d@6d090ac4
[2022/02/22 14:09:31] [info] [1645509591771] [New File]... 67% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/users01.dbf"
[2022/02/22 14:09:31] [info] [1645509591771] [New File]... 100% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/users01.dbf"
[2022/02/22 14:09:32] [info] [1645509591771] [New File]... 10% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 14:09:32] [info] [1645509591771] [New File]... 10% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/system01.dbf"
[2022/02/22 14:09:33] [info] [1645509591771] [New File]... 21% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 14:09:33] [info] [1645509591771] [New File]... 5% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/22 14:09:33] [info] [1645509591771] [New File]... 31% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 14:09:33] [info] [1645509591771] [New File]... 10% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/undotbs01.dbf"
[2022/02/22 14:09:34] [info] [1645509591771] [New File]... 8% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/22 14:09:34] [info] [1645509591771] [New File]... 41% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 14:09:34] [info] [1645509591771] [New File]... 20% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/system01.dbf"
[2022/02/22 14:09:34] [info] [1645509591771] [New File]... 51% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 14:09:35] [info] [1645509591771] [New File]... 61% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 14:09:35] [info] [1645509591771] [New File]... 11% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/22 14:09:35] [info] [1645509591771] [New File]... 71% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 14:09:35] [info] [1645509591771] [New File]... 20% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/undotbs01.dbf"
[2022/02/22 14:09:36] [info] [1645509591771] [New File]... 81% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"

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[2022/02/22 14:09:36] [info] [1645509591771] [New File]... 14% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/22 14:09:36] [info] [1645509591771] [New File]... 10% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/system01.dbf"
[2022/02/22 14:09:36] [info] [1645509591771] [New File]... 91% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/22 14:09:36] [info] [1645509591771] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf", 0.0% of file
size saved by deduplication, number of deduplicated blocks=0, total
number of blocks=66, deduplicated size=0, total size=104,865,792
[2022/02/22 14:09:37] [info] [1645509591771] [New File]... 30% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/pdb/system01.dbf"
[2022/02/22 14:09:37] [info] [1645509591771] [New File]... 7% of
"Oracle Database Server/u01/app/oracle/oradata/ORCL/sysaux01.dbf"
```

[Content Truncated]

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[2022/02/22 14:12:41] [info] [1645509591771] [New File]... 20% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/01_mf_1_58_k18zjmgp_.arc"
[2022/02/22 14:12:41] [info] [1645509591771] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/01_mf_1_56_k18o0scj_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=79, deduplicated size=0, total size=86,957,568
[2022/02/22 14:12:41] [info] [1645509591771] [New File]... 70% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/01_mf_1_55_k17kvw9x_.arc"
[2022/02/22 14:12:41] [info] [1645509591771] [New File]... 30% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/01_mf_1_58_k18zjmgp_.arc"
[2022/02/22 14:12:41] [info] [1645509591771] [New File]... 40% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/01_mf_1_58_k18zjmgp_.arc"
[2022/02/22 14:12:41] [info] [1645509591771] [New File]... 50% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/01_mf_1_58_k18zjmgp_.arc"
[2022/02/22 14:12:41] [info] [1645509591771] [New File]... 60% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/01_mf_1_58_k18zjmgp_.arc"
[2022/02/22 14:12:41] [info] [1645509591771] [New File]... 70% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
```



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22/o1_mf_1_58_k18zjmgp_.arc"
[2022/02/22 14:12:41] [info] [1645509591771] [New File]... 80% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_58_k18zjmgp_.arc"
[2022/02/22 14:12:41] [info] [1645509591771] [New File]... 90% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_58_k18zjmgp_.arc"
[2022/02/22 14:12:41] [info] [1645509591771] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_58_k18zjmgp_.arc"
[2022/02/22 14:12:42] [info] [1645509591771] [New File]... 80% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 14:12:43] [info] [1645509591771] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc"
[2022/02/22 14:12:43] [info] [1645509591771] [New File]... 90% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 14:12:44] [info] [1645509591771] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc"
[2022/02/22 14:12:44] [info] [1645509591771] Deduplication Info:
File="Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc", 0.0% of file size saved by
deduplication, number of deduplicated blocks=0, total number of
blocks=158, deduplicated size=0, total size=175,654,912
[2022/02/22 14:12:46] [info] [1645509591771] [New File]... 100% of
"Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc"
[2022/02/22 14:12:52] [info] [1645509591771] Start validating the
presence and size of backup data in destination "AhsayCBS"...
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000000.bak", Size:
737,536, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000001.bak", Size:
3,063,664, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000002.bak", Size:
66,851,072, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000003.bak", Size:
66,972,304, OK

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[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000003_000001.bak", Size:
67,094,320, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000003_000002.bak", Size:
67,057,072, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000003_000003.bak", Size:
7,503,504, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000004.bak", Size:
67,015,200, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000004_000001.bak", Size:
67,086,016, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000004_000002.bak", Size:
67,015,344, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000004_000003.bak", Size:
48,783,488, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000005.bak", Size:
50,613,024, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000006.bak", Size:
66,938,992, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000006_000001.bak", Size:
40,263,456, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000007.bak", Size:
4,935,488, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000008.bak", Size:
36,645,456, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000009.bak", Size:
17,989,888, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00000a.bak", Size:
1,080,016, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00000b.bak", Size:
38,125,984, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00000c.bak", Size:
24,297,280, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00000d.bak", Size:
37,402,592, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00000e.bak", Size:
```

36,274,976, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00000f.bak", Size:
36,086,048, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000010.bak", Size:
36,054,416, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000011.bak", Size:
36,896,496, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000012.bak", Size:
36,751,456, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000013.bak", Size:
37,221,120, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000014.bak", Size:
35,211,152, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000015.bak", Size:
35,906,128, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000016.bak", Size:
36,274,976, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000017.bak", Size:
35,363,072, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000018.bak", Size:
37,000,784, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000019.bak", Size:
35,557,904, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00001a.bak", Size:
9,610,976, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00001b.bak", Size:
37,600,720, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00001c.bak", Size:
28,792,592, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00001d.bak", Size:
35,664,096, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00001e.bak", Size:
37,667,232, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00001f.bak", Size:
36,990,880, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:

"1645509537775/blocks/2022-02-22-14-07-45/0/000020.bak", Size:
35,884,208, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000021.bak", Size:
34,860,896, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000022.bak", Size:
35,727,088, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000023.bak", Size:
34,080,032, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000024.bak", Size:
34,071,296, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000025.bak", Size:
35,344,096, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000026.bak", Size:
34,563,392, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000027.bak", Size:
34,856,768, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000028.bak", Size:
34,287,968, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000029.bak", Size:
35,041,872, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00002a.bak", Size:
35,027,696, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00002b.bak", Size:
35,096,912, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00002c.bak", Size:
34,935,312, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00002d.bak", Size:
34,108,672, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00002e.bak", Size:
34,023,168, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/00002f.bak", Size:
36,442,576, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000030.bak", Size:
34,208,832, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000031.bak", Size:
35,388,032, OK

```

[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000032.bak", Size:
34,512,144, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000033.bak", Size:
39,552,800, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000034.bak", Size:
19,318,944, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000035.bak", Size:
54,417,664, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000036.bak", Size:
35,831,104, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000037.bak", Size:
34,391,456, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000038.bak", Size:
9,909,376, OK
[2022/02/22 14:12:52] [info] [1645509591771] File:
"1645509537775/blocks/2022-02-22-14-07-45/0/000039.bak", Size:
17,534,992, OK
[2022/02/22 14:12:52] [info] [1645509591771] Finished validating the
presence and size of backup data in destination "AhsayCBS"
[2022/02/22 14:12:52] [info] [1645509591771] Total New Files = 67
[2022/02/22 14:12:52] [info] [1645509591771] Total New Directories =
26
[2022/02/22 14:12:52] [info] [1645509591771] Total New Links = 0
[2022/02/22 14:12:52] [info] [1645509591771] Total Updated Files = 0
[2022/02/22 14:12:52] [info] [1645509591771] Total Deleted Files = 0
[2022/02/22 14:12:52] [info] [1645509591771] Total Deleted Directories
= 0
[2022/02/22 14:12:52] [info] [1645509591771] Total Deleted Links = 0
[2022/02/22 14:12:52] [info] [1645509591771] Total Moved Files = 0
[2022/02/22 14:12:52] [info] [1645509591771] Total Dedupe Saving for
this job = 492.58MB
[2022/02/22 14:12:52] [info] [1645509591771] Total Backup Data Size
for this job = 11.24GB
[2022/02/22 14:12:52] [info] [1645509591771] Total Dedupe Saving for
destination = 492.58MB
[2022/02/22 14:12:52] [info] [1645509591771] Total Backup Data Size
for destination = 11.24GB
[2022/02/22 14:12:52] [info] [-] Deleting temporary file
/temp/1645509537775/SpoolArea
[2022/02/22 14:12:52] [info] [-] Removing archived logs older than 60
day(s)
[2022/02/22 14:12:52] [info] [-] [Delete archived logs]
/u01/database/bin/rman target system/*****@orcl nocatalog
cmdfile=UpdateOracleRmanRecords.rman '60'
[2022/02/22 14:12:52] [info] [-] [Delete archived logs]
[2022/02/22 14:12:52] [info] [-] [Delete archived logs] Recovery

```

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Manager: Release 18.0.0.0.0 - Production on Tue Feb 22 14:12:52 2022
[2022/02/22 14:12:52] [info] [-] [Delete archived logs] Version
18.3.0.0.0
[2022/02/22 14:12:52] [info] [-] [Delete archived logs]
[2022/02/22 14:12:52] [info] [-] [Delete archived logs] Copyright (c)
1982, 2018, Oracle and/or its affiliates. All rights reserved.
[2022/02/22 14:12:52] [info] [-] [Delete archived logs]
[2022/02/22 14:12:53] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 14:12:53] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 14:12:53] [info] [-] [Delete archived logs]
[2022/02/22 14:12:53] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 14:12:53] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 14:12:53] [info] [-] [Delete archived logs]
[2022/02/22 14:12:53] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 14:12:53] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 14:12:53] [info] [-] [Delete archived logs]
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 14:12:54] [info] [-] [Delete archived logs]
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 14:12:54] [info] [-] [Delete archived logs]
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] PL/SQL package
SYS.DBMS_BACKUP_RESTORE version 18.01.00.00 in TARGET database is not
current
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] PL/SQL package
SYS.DBMS_RCVMAN version 18.01.00.00 in TARGET database is not current
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] connected to
target database: ORCL (DBID=1592627154)
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] using target
database control file instead of recovery catalog
[2022/02/22 14:12:54] [info] [-] [Delete archived logs]
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] RMAN> run {
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] 2> DELETE
ARCHIVELOG ALL COMPLETED BEFORE 'SYSDATE-60';
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] 3> CROSSCHECK
ARCHIVELOG ALL;
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] 4> DELETE

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EXPIRED ARCHIVELOG ALL;
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] 5> }
[2022/02/22 14:12:54] [info] [-] [Delete archived logs] 6> Exit
[2022/02/22 14:12:55] [info] [-] [Delete archived logs] RMAN-04008:
warning from target database:
[2022/02/22 14:12:55] [info] [-] [Delete archived logs] ORA-28002: the
password will expire within 1 days
[2022/02/22 14:12:55] [info] [-] [Delete archived logs]
[2022/02/22 14:12:55] [info] [-] [Delete archived logs] allocated
channel: ORA_DISK_1
[2022/02/22 14:12:55] [info] [-] [Delete archived logs] channel
ORA_DISK_1: SID=266 device type=DISK
[2022/02/22 14:12:55] [info] [-] [Delete archived logs]
[2022/02/22 14:12:55] [info] [-] [Delete archived logs] released
channel: ORA_DISK_1
[2022/02/22 14:12:55] [info] [-] [Delete archived logs] allocated
channel: ORA_DISK_1
[2022/02/22 14:12:55] [info] [-] [Delete archived logs] channel
ORA_DISK_1: SID=266 device type=DISK
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
1/o1_mf_1_10_k0dcqcjy_.arc RECID=9 STAMP=1096393195
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_11_k0f2lq0s_.arc RECID=10 STAMP=1096416599
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_12_k0fypx5q_.arc RECID=11 STAMP=1096445405
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_13_k0gd6c8h_.arc RECID=12 STAMP=1096459211
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_14_k0gt8kbb_.arc RECID=13 STAMP=1096473617
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file

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name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_15_k0h757gg_.arc RECID=14 STAMP=1096486823
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
2/o1_mf_1_16_k0hnlxkl_.arc RECID=15 STAMP=1096500029
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
3/o1_mf_1_17_k0jj69s0_.arc RECID=16 STAMP=1096528842
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
3/o1_mf_1_18_k0jx2wt5_.arc RECID=17 STAMP=1096542045
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
3/o1_mf_1_19_k0k8t8tf_.arc RECID=18 STAMP=1096554057
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
3/o1_mf_1_20_k0kopyw7_.arc RECID=19 STAMP=1096567263
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
3/o1_mf_1_21_k0l0v9wz_.arc RECID=20 STAMP=1096578666
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
4/o1_mf_1_22_k0lczqy0_.arc RECID=21 STAMP=1096590072
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
4/o1_mf_1_23_k0nr3l57_.arc RECID=22 STAMP=1096668018
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log

```



```

file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
5/o1_mf_1_24_k0o4j45x_.arc RECID=23 STAMP=1096680708
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
6/o1_mf_1_25_k0rtlhlrl_.arc RECID=24 STAMP=1096801071
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
6/o1_mf_1_26_k0rw54qx_.arc RECID=25 STAMP=1096803236
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
7/o1_mf_1_27_k0t8p9fj_.arc RECID=26 STAMP=1096848841
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
7/o1_mf_1_28_k0vmx1b9_.arc RECID=27 STAMP=1096893090
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
8/o1_mf_1_29_k0wvnnh5_.arc RECID=28 STAMP=1096934807
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
8/o1_mf_1_30_k0yr2f4d_.arc RECID=29 STAMP=1096995667
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_31_k0zksd0_.arc RECID=30 STAMP=1097021882
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_32_k10b9wj4_.arc RECID=31 STAMP=1097047104
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log

```



```

[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_33_k10kxqmq_.arc RECID=32 STAMP=1097054907
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_34_k10skmk2_.arc RECID=33 STAMP=1097062710
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_35_k1115hk5_.arc RECID=34 STAMP=1097070514
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_36_k1186smj_.arc RECID=35 STAMP=1097077724
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_37_k11htpjs_.arc RECID=36 STAMP=1097085530
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_38_k11qgkxq_.arc RECID=37 STAMP=1097093332
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_1
9/o1_mf_1_39_k11yk5qq_.arc RECID=38 STAMP=1097100582
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_40_k1263jxd_.arc RECID=39 STAMP=1097108339
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_41_k12t462l_.arc RECID=40 STAMP=1097128847
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation

```

```

succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_42_k1340123_.arc RECID=41 STAMP=1097138967
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_43_k13c1p9v_.arc RECID=42 STAMP=1097146169
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_44_k13l2t9p_.arc RECID=43 STAMP=1097153374
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_45_k13s3vrh_.arc RECID=44 STAMP=1097160573
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_46_k1404zk7_.arc RECID=45 STAMP=1097167777
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_47_k147rxcy_.arc RECID=46 STAMP=1097175588
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_48_k14gt2bn_.arc RECID=47 STAMP=1097182789
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
0/o1_mf_1_49_k14n2xfv_.arc RECID=48 STAMP=1097188191
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
1/o1_mf_1_50_k14vpvlp_.arc RECID=49 STAMP=1097195997

```

```

[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
1/ol_mf_1_51_k15sz1o4_.arc RECID=50 STAMP=1097226982
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
1/ol_mf_1_52_k15szoxj_.arc RECID=51 STAMP=1097227000
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
1/ol_mf_1_53_k15tj2x9_.arc RECID=52 STAMP=1097227524
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
1/ol_mf_1_54_k17c47lt_.arc RECID=53 STAMP=1097277321
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
2/ol_mf_1_55_k17kvw9x_.arc RECID=54 STAMP=1097284222
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
2/ol_mf_1_56_k18o0scj_.arc RECID=55 STAMP=1097320218
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
2/ol_mf_1_57_k18rnsjq_.arc RECID=56 STAMP=1097323930
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] validation
succeeded for archived log
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] archived log
file
name=/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_2
2/ol_mf_1_58_k18zjmgp_.arc RECID=57 STAMP=1097330963
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] Crosschecked
49 objects
[2022/02/22 14:12:56] [info] [-] [Delete archived logs]
[2022/02/22 14:12:56] [info] [-] [Delete archived logs]
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] released

```

```
channel: ORA_DISK_1
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] allocated
channel: ORA_DISK_1
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] channel
ORA_DISK_1: SID=266 device type=DISK
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] specification
does not match any archived log in the repository
[2022/02/22 14:12:56] [info] [-] [Delete archived logs]
[2022/02/22 14:12:56] [info] [-] [Delete archived logs] Recovery
Manager complete.
[2022/02/22 14:12:57] [info] [-] Saving server information to
destination.
[2022/02/22 14:12:58] [info] [1645509591771] Saving encrypted backup
file index to 1645509537775/blocks/2022-02-22-14-07-45 at destination
AhsayCBS...
[2022/02/22 14:12:58] [info] [-] Start running post-commands
[2022/02/22 14:12:58] [info] [-] Finished running post-commands
[2022/02/22 14:13:01] [info] [1645509591771] Deleting temporary file
/temp/1645509537775/OBS@1645509591771
[2022/02/22 14:13:01] [info] [1645509591771] Backup Completed
Successfully
```

Appendix D Example of Restore Log

This appendix shows the complete restore log for each restore option: **Restore to Original Location** and **Restore Raw File**

Restore to Original Location

Example of restore to original location

```
# cd /usr/local/obm/bin
# sh Restore.sh

Using APP_HOME:           : /usr/local/obm
Using BACKUP_SET           : BackupSet_01
Using RESTORE_FROM         : Oracle Database Server
Using RESTORE_TO           :
Using POINT_IN_TIME        : Current
Using RESTORE_PERMISSION   : N
Using TEMP_DIR             : /temp
Filter Pattern not set, filter would not apply to restore

[2022/02/23 11:22:59] Start [ AhsayOBM v9.1.2.0 ]
[2022/02/23 11:22:59] OS: Linux 3.10.0-1160.45.1.el7.x86_64
(localhost.localdomain); CPU Model: VMware-Intel(R) Xeon(R) Gold 5218R
CPU @ 2.10GHz, Intel(R) Xeon(R) Gold 5218R CPU @ 2.10GHz; Number of
Processors: 4; Heap Size: 110.3MB (Current) / 1.8GB (Maximum);
Physical Memory: 4.3GB (Free) / 7.6GB (Total)
[2022/02/23 11:22:59] start, Start [ AhsayOBM v9.1.2.0 ], 0, 0, 0, , 0, 0
[2022/02/23 11:22:59] Selected job: 2022-02-23-24-00-00
[2022/02/23 11:22:59] Selected source: [Oracle Database Server]
[2022/02/23 11:22:59] Info: [followLink=false marshalTargetPath=false
deleteForSync=false skipFaultKey=false verifyDeltaFileChecksum=false
ignoreSegmentInfoCorruptedData=true restorePermission=false
[RestoreLocation] type=ORIGINAL path=[null]]
[2022/02/23 11:23:01] Start restore database "orcl"
[2022/02/23 11:23:03] Initializing Oracle module...
[2022/02/23 11:23:08] Shutdown database
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/oradata/ORCL/control01.ctl"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/oradata/ORCL/redo03.log"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/oradata/ORCL/redo02.log"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/oradata/ORCL/redo01.log"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_11/o1
_mf_1_10_k0dcqcjy_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_11_k0f2lq0s_.arc"
[2022/02/23 11:23:44] Removed file
```

```

"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_12_k0fypx5q_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_13_k0gd6c8h_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_14_k0gt8kbx_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_15_k0h757gg_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_16_k0hnlxkl_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_13/o1
_mf_1_17_k0jj69s0_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_13/o1
_mf_1_18_k0jx2wt5_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_13/o1
_mf_1_19_k0k8t8tf_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_13/o1
_mf_1_20_k0kopyw7_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_13/o1
_mf_1_21_k0l0v9wz_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_14/o1
_mf_1_22_k0lczqy0_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_14/o1
_mf_1_23_k0nr3l57_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_15/o1
_mf_1_24_k0o4j45x_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_16/o1
_mf_1_25_k0rtlhlrl_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_16/o1
_mf_1_26_k0rw54qx_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_17/o1
_mf_1_27_k0t8p9fj_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_17/o1
_mf_1_28_k0vmx1b9_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_18/o1
_mf_1_29_k0wwnnh5_.arc"

```

```
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_18/o1
_mf_1_30_k0yr2f4d_.arc"
[2022/02/23 11:23:44] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_31_k0zkosd0_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_32_k10b9wj4_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_33_k10kxqmq_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_34_k10skmk2_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_35_k1115hk5_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_36_k1186smj_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_37_k11htpjs_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_38_k11qgkxq_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_39_k11yk5qq_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_40_k1263jxd_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_41_k12t462l_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_42_k1340l23_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_43_k13clp9v_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_44_k13l2t9p_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_45_k13s3vrh_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_46_k1404zk7_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
```

```

_mf_1_47_k147rxcy_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_48_k14gt2bn_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_49_k14n2xfv_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_21/o1
_mf_1_50_k14vpvlp_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_21/o1
_mf_1_51_k15szl04_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_21/o1
_mf_1_52_k15szoxj_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_21/o1
_mf_1_53_k15tj2x9_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_21/o1
_mf_1_54_k17c47lt_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_22/o1
_mf_1_55_k17kvw9x_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_22/o1
_mf_1_56_k18o0scj_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_22/o1
_mf_1_57_k18rnsjq_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_22/o1
_mf_1_58_k18zjmgp_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_23/o1
_mf_1_59_k1c6pcf6_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_23/o1
_mf_1_60_k1c8kjgt_.arc"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/pdbseed/undotbs01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/pdbseed/system01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/users01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/pdb/users01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/system01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/undotbs01.dbf"
[2022/02/23 11:23:45] Removed file

```



```

"/u01/app/oracle/oradata/ORCL/pdbseed/sysaux01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/pdb/system01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/sysaux01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/temp01.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/pdbseed/temp012021-02-18_14-41-16-539-
PM.dbf"
[2022/02/23 11:23:45] Removed file
"/u01/app/oracle/oradata/ORCL/pdb/temp01.dbf"
[2022/02/23 11:23:54] Existing item found (overwrite)...
/u01/database/dbs/spfileorcl.ora
[2022/02/23 11:23:54] Downloading...
"/u01/database/dbs/spfileorcl.ora" (Total 3K bytes)
[2022/02/23 11:23:54] Downloading...
"/u01/app/oracle/oradata/ORCL/control01.ctl" (Total 17.89M bytes)
[2022/02/23 11:23:54] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl" (Total 17.89M
bytes)
[2022/02/23 11:23:55] [info] Mount database
[2022/02/23 11:24:19] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_11/o1
_mf_1_10_k0dcqcjy_.arc" (Total 121.7M bytes)
[2022/02/23 11:24:22] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_12_k0fypx5q_.arc" (Total 175.53M bytes)
[2022/02/23 11:24:25] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_11_k0f2lq0s_.arc" (Total 173.88M bytes)
[2022/02/23 11:24:28] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_13_k0gd6c8h_.arc" (Total 169.63M bytes)
[2022/02/23 11:24:40] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_13/o1
_mf_1_17_k0jj69s0_.arc" (Total 172.06M bytes)
[2022/02/23 11:24:43] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_15_k0h757gg_.arc" (Total 168.21M bytes)
[2022/02/23 11:24:46] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_14_k0gt8kx_.arc" (Total 168.96M bytes)
[2022/02/23 11:24:49] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_12/o1
_mf_1_16_k0hnlxkl_.arc" (Total 174.14M bytes)
[2022/02/23 11:24:57] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_13/o1
_mf_1_18_k0jx2wt5_.arc" (Total 174.1M bytes)

```

```

[2022/02/23 11:25:00] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_13/o1
_mf_1_20_k0kopyw7_.arc" (Total 171.12M bytes)
[2022/02/23 11:25:03] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_13/o1
_mf_1_21_k0l0v9wz_.arc" (Total 170.58M bytes)
[2022/02/23 11:25:06] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_13/o1
_mf_1_19_k0k8t8tf_.arc" (Total 168.04M bytes)
[2022/02/23 11:25:12] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_16/o1
_mf_1_25_k0rtlhlrl_.arc" (Total 44.95M bytes)
[2022/02/23 11:25:15] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_14/o1
_mf_1_23_k0nr3l57_.arc" (Total 173.67M bytes)
[2022/02/23 11:25:19] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_14/o1
_mf_1_22_k0lczqy0_.arc" (Total 168.64M bytes)
[2022/02/23 11:25:22] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_15/o1
_mf_1_24_k0o4j45x_.arc" (Total 167.98M bytes)
[2022/02/23 11:25:22] Downloading...
"/u01/app/oracle/oradata/ORCL/users01.dbf" (Total 5.01M bytes)
[2022/02/23 11:25:23] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_16/o1
_mf_1_26_k0rw54qx_.arc" (Total 3.51M bytes)
[2022/02/23 11:25:23] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_22/o1
_mf_1_58_kl8zjmgp_.arc" (Total 12.72M bytes)
[2022/02/23 11:25:23] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_23/o1
_mf_1_60_kl1c8kjgt_.arc" (Total 24.55M bytes)
[2022/02/23 11:25:29] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_17/o1
_mf_1_28_k0vmx1b9_.arc" (Total 137.18M bytes)
[2022/02/23 11:25:32] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_18/o1
_mf_1_29_k0wvnnh5_.arc" (Total 178.19M bytes)
[2022/02/23 11:25:35] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_18/o1
_mf_1_30_k0yr2f4d_.arc" (Total 170.07M bytes)
[2022/02/23 11:25:38] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_17/o1
_mf_1_27_k0t8p9fj_.arc" (Total 176.62M bytes)
[2022/02/23 11:25:45] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_33_k10kxqmq_.arc" (Total 171.43M bytes)
[2022/02/23 11:25:48] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_31_k0zksd0_.arc" (Total 176.36M bytes)
[2022/02/23 11:25:51] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_32_k10b9wj4_.arc" (Total 172.31M bytes)

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[2022/02/23 11:25:54] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_34_k10skmk2_.arc" (Total 176.21M bytes)
[2022/02/23 11:26:01] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_37_k11htpjs_.arc" (Total 168.45M bytes)
[2022/02/23 11:26:04] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_35_k1115hk5_.arc*" (Total 173.91M bytes)
[2022/02/23 11:26:07] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_38_k11qgkxq_.arc" (Total 170.61M bytes)
[2022/02/23 11:26:10] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_36_k1186smj_.arc" (Total 168.11M bytes)
[2022/02/23 11:26:18] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_19/o1
_mf_1_39_k11yk5qq_.arc" (Total 170.63M bytes)
[2022/02/23 11:26:21] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_41_k12t462l_.arc" (Total 170.39M bytes)
[2022/02/23 11:26:24] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_43_k13clp9v_.arc" (Total 173.07M bytes)
[2022/02/23 11:26:27] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_40_k1263jxd_.arc" (Total 167.84M bytes)
[2022/02/23 11:26:38] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_45_k13s3vrh_.arc" (Total 168.01M bytes)
[2022/02/23 11:26:41] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_46_k1404zk7_.arc" (Total 173.05M bytes)
[2022/02/23 11:26:44] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_44_k13l2t9p_.arc" (Total 168.61M bytes)
[2022/02/23 11:26:47] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_42_k1340l23_.arc" (Total 171.62M bytes)
[2022/02/23 11:26:57] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_48_k14gt2bn_.arc" (Total 169.17M bytes)
[2022/02/23 11:27:00] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_49_k14n2xfv_.arc" (Total 171.15M bytes)
[2022/02/23 11:27:03] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_21/o1
_mf_1_50_k14vpvlp_.arc" (Total 169.29M bytes)
[2022/02/23 11:27:06] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_20/o1
_mf_1_47_k147rxcy_.arc" (Total 179.54M bytes)
[2022/02/23 11:27:17] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_21/o1
```

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_mf_1_53_k15tj2x9_.arc" (Total 89.02M bytes)
[2022/02/23 11:27:23] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_21/o1
_mf_1_54_k17c47lt_.arc" (Total 167.5M bytes)
[2022/02/23 11:27:26] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_21/o1
_mf_1_52_k15szoxj_.arc" (Total 189.47M bytes)
[2022/02/23 11:27:29] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_21/o1
_mf_1_51_k15szlo4_.arc" (Total 170.29M bytes)
[2022/02/23 11:27:34] Downloading...
"/u01/app/oracle/oradata/ORCL/pdb/users01.dbf" (Total 5.01M bytes)
[2022/02/23 11:27:35] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_23/o1
_mf_1_59_k1c6pcf6_.arc" (Total 13.8M bytes)
[2022/02/23 11:27:38] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_22/o1
_mf_1_57_k18rnsjq_.arc" (Total 32.92M bytes)
[2022/02/23 11:27:41] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_22/o1
_mf_1_56_k18o0scj_.arc" (Total 82.93M bytes)
[2022/02/23 11:27:44] Downloading...
"/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_22/o1
_mf_1_55_k17kvw9x_.arc" (Total 167.52M bytes)
[2022/02/23 11:27:48] Downloading...
"/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf" (Total 370.01M bytes)
[2022/02/23 11:27:51] Downloading...
"/u01/app/oracle/oradata/ORCL/pdbseed/sysaux01.dbf" (Total 350.01M
bytes)
[2022/02/23 11:27:54] Downloading...
"/u01/app/oracle/oradata/ORCL/pdb/system01.dbf" (Total 250.01M bytes)
[2022/02/23 11:27:57] Downloading...
"/u01/app/oracle/oradata/ORCL/pdbseed/system01.dbf" (Total 250.01M
bytes)
[2022/02/23 11:28:04] Downloading...
"/u01/app/oracle/oradata/ORCL/pdbseed/undotbs01.dbf" (Total 100.01M
bytes)
[2022/02/23 11:28:09] Downloading...
"/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf" (Total 100.01M bytes)
[2022/02/23 11:28:24] Downloading...
"/u01/app/oracle/oradata/ORCL/sysaux01.dbf" (Total 1.35G bytes)
[2022/02/23 11:28:27] Downloading...
"/u01/app/oracle/oradata/ORCL/system01.dbf" (Total 870.01M bytes)
[2022/02/23 11:28:50] Downloading...
"/u01/app/oracle/oradata/ORCL/undotbs01.dbf" (Total 220.01M bytes)
[2022/02/23 11:29:21] Recover database
[2022/02/23 11:29:22] Reset database logs
[2022/02/23 11:29:53] Restart database
[2022/02/23 11:30:57] Restore Completed Successfully
[2022/02/23 11:30:57] end,RESTORE_STOP_SUCCESS,0,0,0,,0,0

```

Restore Raw File

Example of restore raw file

```
# sh Restore.sh

Using APP_HOME:           : /usr/local/obm
Using BACKUP_SET          : BackupSet_01
Using RESTORE_FROM        : Oracle Database Server
Using RESTORE_TO          : /usr/local/restorefolder
Using POINT_IN_TIME       : Current
Using RESTORE_PERMISSION : N
Using TEMP_DIR            : /temp
Filter Pattern not set, filter would not apply to restore
[2022-02-22 17:13:19] Start [ AhsayOBM v9.1.2.0 ]
[2022-02-22 17:13:20] OS: Linux 3.10.0-1160.45.1.el7.x86_64
(localhost.localdomain); CPU Model: Intel(R) Xeon(R) Gold 5218R CPU @
2.10GHz; Intel(R) Xeon(R) Gold 5218R CPU @ 2.10GHz; Number of
Processors: 4; Heap Size: 44MB (Current) / 1.8GB (Maximum); Physical
Memory: 546.2MB (Free) / 7.6GB (Total)
[2022-02-22 17:13:20] start,Start [ AhsayOBM v9.1.2.0 ],0,0,0,,0,0

[2022-02-22 17:13:20] Selected job: 2022-02-22-17-12-22
[2022-02-22 17:13:20] Selected source: [Oracle Database Server]
[2022-02-22 17:13:20] Info: [followLink=false marshalTargetPath=false
deleteForSync=false skipFaultKey=false verifyDeltaFileChecksum=false
ignoreSegmentInfoCorruptedData=true restorePermission=false
[RestoreLocation] type=RAW path=[/usr/local/restorefolder]]
[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database Server"
[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database Server/u01"
[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database Server/u01/app"
[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database Server/u01/app/oracle"
[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area"
[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL"
[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL"
[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog"
[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
11"
[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
12"
```

```

[2022-02-22 17:13:21] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
13"
[2022-02-22 17:13:26] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
11/o1_mf_1_10_k0dcqcjy_.arc" (Total 121.7M bytes)
[2022-02-22 17:13:29] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
12/o1_mf_1_13_k0gd6c8h_.arc" (Total 169.63M bytes)
[2022-02-22 17:13:32] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
12/o1_mf_1_12_k0fypx5q_.arc" (Total 175.53M bytes)
[2022-02-22 17:13:35] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
12/o1_mf_1_11_k0f2lq0s_.arc" (Total 173.88M bytes)
[2022-02-22 17:13:38] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
14"
[2022-02-22 17:13:46] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
12/o1_mf_1_15_k0h757gg_.arc" (Total 168.21M bytes)
[2022-02-22 17:13:49] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
12/o1_mf_1_16_k0hnlxkl_.arc" (Total 174.14M bytes)
[2022-02-22 17:13:52] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
13/o1_mf_1_17_k0jj69s0_.arc" (Total 172.06M bytes)
[2022-02-22 17:13:55] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
12/o1_mf_1_14_k0gt8kbx_.arc" (Total 168.96M bytes)
[2022-02-22 17:13:57] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
15"
[2022-02-22 17:13:57] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
16"
[2022-02-22 17:14:05] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
13/o1_mf_1_20_k0kopyw7_.arc" (Total 171.12M bytes)
[2022-02-22 17:14:08] Downloading... "/usr/local/restorefolder/Oracle

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Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
13/o1_mf_1_19_k0k8t8tf_.arc" (Total 168.04M bytes)
[2022-02-22 17:14:11] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
14/o1_mf_1_23_k0nr3157_.arc" (Total 173.67M bytes)
[2022-02-22 17:14:14] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
13/o1_mf_1_18_k0jx2wt5_.arc" (Total 174.1M bytes)
[2022-02-22 17:14:16] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
17"
[2022-02-22 17:14:16] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
18"
[2022-02-22 17:14:16] Downloading... "/usr/local/restorefolder/Oracle
Database Server/traceCtrlfile.log" (Total 3K bytes)
[2022-02-22 17:14:16] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/database/dbs/spfileorcl.ora" (Total 3K bytes)
[2022-02-22 17:14:16] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/fast_recovery_area/ORCL/control02.ctl"
(Total 17.89M bytes)
[2022-02-22 17:14:17] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/control01.ctl" (Total
17.89M bytes)
[2022-02-22 17:14:17] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/users01.dbf" (Total 5.01M
bytes)
[2022-02-22 17:14:17] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
16/o1_mf_1_26_k0rw54qx_.arc" (Total 3.51M bytes)
[2022-02-22 17:14:17] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19"
[2022-02-22 17:14:22] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
16/o1_mf_1_25_k0rtlhlr1_.arc" (Total 44.95M bytes)
[2022-02-22 17:14:25] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
15/o1_mf_1_24_k0o4j45x_.arc" (Total 167.98M bytes)
[2022-02-22 17:14:28] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
13/o1_mf_1_21_k0l0v9wz_.arc" (Total 170.58M bytes)
[2022-02-22 17:14:31] Downloading... "/usr/local/restorefolder/Oracle

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Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
14/o1_mf_1_22_k0lczqy0_.arc" (Total 168.64M bytes)
[2022-02-22 17:14:36] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
18/o1_mf_1_29_k0wvnnh5_.arc" (Total 178.19M bytes)
[2022-02-22 17:14:39] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19/o1_mf_1_32_k10b9wj4_.arc" (Total 172.31M bytes)
[2022-02-22 17:14:42] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
17/o1_mf_1_27_k0t8p9fj_.arc" (Total 176.62M bytes)
[2022-02-22 17:14:45] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
17/o1_mf_1_28_k0vmx1b9_.arc" (Total 137.18M bytes)
[2022-02-22 17:14:58] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19/o1_mf_1_31_k0zkosd0_.arc" (Total 176.36M bytes)
[2022-02-22 17:15:01] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19/o1_mf_1_34_k10skmk2_.arc" (Total 176.21M bytes)
[2022-02-22 17:15:04] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19/o1_mf_1_35_k1115hk5_.arc" (Total 173.91M bytes)
[2022-02-22 17:15:07] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
18/o1_mf_1_30_k0yr2f4d_.arc" (Total 170.07M bytes)
[2022-02-22 17:15:09] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20"
[2022-02-22 17:15:18] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19/o1_mf_1_39_k11yk5qq_.arc" (Total 170.63M bytes)
[2022-02-22 17:15:21] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19/o1_mf_1_38_k11qgkxq_.arc" (Total 170.61M bytes)
[2022-02-22 17:15:24] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19/o1_mf_1_37_k11htpjs_.arc" (Total 168.45M bytes)
[2022-02-22 17:15:27] Downloading... "/usr/local/restorefolder/Oracle
Database

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Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19/o1_mf_1_33_k10kxqmq_.arc" (Total 171.43M bytes)
[2022-02-22 17:15:36] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
19/o1_mf_1_36_k1186smj_.arc" (Total 168.11M bytes)
[2022-02-22 17:15:39] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20/o1_mf_1_42_k1340123_.arc" (Total 171.62M bytes)
[2022-02-22 17:15:42] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20/o1_mf_1_40_k1263jxd_.arc" (Total 167.84M bytes)
[2022-02-22 17:15:45] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20/o1_mf_1_41_k12t462l_.arc" (Total 170.39M bytes)
[2022-02-22 17:15:47] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21"
[2022-02-22 17:16:00] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20/o1_mf_1_44_k1312t9p_.arc" (Total 168.61M bytes)
[2022-02-22 17:16:03] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20/o1_mf_1_43_k13c1p9v_.arc" (Total 173.07M bytes)
[2022-02-22 17:16:06] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20/o1_mf_1_47_k147rxcy_.arc" (Total 179.54M bytes)
[2022-02-22 17:16:09] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20/o1_mf_1_45_k13s3vrh_.arc" (Total 168.01M bytes)
[2022-02-22 17:16:11] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22"
[2022-02-22 17:16:23] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20/o1_mf_1_48_k14gt2bn_.arc" (Total 169.17M bytes)
[2022-02-22 17:16:26] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_50_k14vpvlp_.arc" (Total 169.29M bytes)
[2022-02-22 17:16:29] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_

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20/o1_mf_1_49_k14n2xfv_.arc" (Total 171.15M bytes)
[2022-02-22 17:16:32] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
20/o1_mf_1_46_k1404zk7_.arc" (Total 173.05M bytes)
[2022-02-22 17:16:39] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_56_k18o0scj_.arc" (Total 82.93M bytes)
[2022-02-22 17:16:42] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_52_k15szoxj_.arc" (Total 189.47M bytes)
[2022-02-22 17:16:45] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_51_k15sz1o4_.arc" (Total 170.29M bytes)
[2022-02-22 17:16:48] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_53_k15tj2x9_.arc" (Total 89.02M bytes)
[2022-02-22 17:16:49] Creating new directory...
"/usr/local/restorefolder/Oracle Database
Server/u01/app/oracle/oradata/ORCL/pdb"
[2022-02-22 17:16:54] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_57_k18rnsjq_.arc" (Total 32.92M bytes)
[2022-02-22 17:16:57] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
22/o1_mf_1_55_k17kvw9x_.arc" (Total 167.52M bytes)
[2022-02-22 17:17:00] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdb/sysaux01.dbf" (Total
370.01M bytes)
[2022-02-22 17:17:03] Downloading... "/usr/local/restorefolder/Oracle
Database
Server/u01/app/oracle/fast_recovery_area/ORCL/ORCL/archivelog/2022_02_
21/o1_mf_1_54_k17c47lt_.arc" (Total 167.5M bytes)
[2022-02-22 17:17:06] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdbseed/sysaux01.dbf"
(Total 350.01M bytes)
[2022-02-22 17:17:09] Downloading... "/usr/local/restorefolder/Oracle
Database Server/initrcl.oradump" (Total 780 bytes)
[2022-02-22 17:17:09] Downloading... "/usr/local/restorefolder/Oracle
Database Server/traceDatafile.log" (Total 599 bytes)
[2022-02-22 17:17:09] Downloading... "/usr/local/restorefolder/Oracle
Database Server/addTempFile.sql" (Total 494 bytes)
[2022-02-22 17:17:09] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdb/users01.dbf" (Total
5.01M bytes)
[2022-02-22 17:17:14] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdb/undotbs01.dbf" (Total

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100.01M bytes)
[2022-02-22 17:17:17] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdbseed/system01.dbf"
(Total 250.01M bytes)
[2022-02-22 17:17:20] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdbseed/undotbs01.dbf"
(Total 100.01M bytes)
[2022-02-22 17:17:23] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/pdb/system01.dbf" (Total
250.01M bytes)
[2022-02-22 17:17:39] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/sysaux01.dbf" (Total 1.35G
bytes)
[2022-02-22 17:17:42] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/undotbs01.dbf" (Total
220.01M bytes)
[2022-02-22 17:17:45] Downloading... "/usr/local/restorefolder/Oracle
Database Server/u01/app/oracle/oradata/ORCL/system01.dbf" (Total
870.01M bytes)
[2022-02-22 17:18:14] Restore Completed Successfully
[2022-02-22 17:18:14] end,RESTORE_STOP_SUCCESS,0,0,0,,0,0
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