



AhsayUBS Installation Guide on HP ProLiant MicroServer Gen8

V1.0

**Ahsay Systems
Corporation Limited**

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Revision History

Date	Descriptions	Type of modification
17 Mar 2015	First revision of AhsayUBS Installation Guide on HP ProLiant MicroServer Gen8.	New

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1 Overview

1.1 Conventions

Convention	Descriptions	Example
Bold	Important information	Important: The encrypting key is independent from a backup account's password.
<i>Italic</i>	Folder path or file path	<i>C:\Program Files\AhsayACB</i>
[]	Graphical Interface Elements	[Backup]
%%	File path in Windows format	%AhsayACB_HOME%
\$	File path in Mac OS X format	\$AhsayACB_HOME
<i>Italic</i>	Command	<i>sudo ./uninstall.sh</i>

1.2 Definitions, Acronyms and Abbreviations

Term/Abbreviation	Definition
AhsayOBM	Ahsay™ Online Backup Manager
AhsayACB	Ahsay™ A-Click Backup
AhsayOBS	Ahsay™ Offsite Backup Server
AhsayUBS	Ahsay™ Universal Backup System
AhsayACB_HOME	The install location of AhsayACB: <u>Windows</u> <i>C:\Program Files\AhsayACB</i> <u>Mac OS X</u> <i>/Applications/AhsayACB</i>
USERPROFILE	The location where the operating system stores the user account information. <u>Windows XP/2003</u> <i>C:\Documents and Settings</i> <u>Windows Vista/2008/7</u> <i>C:\Users</i>



	<u>Mac OS X</u> <i>~/.acb</i>
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1.3 System Requirements

Please refer to [FAQ: Ahsay Software Compatibility List \(SCL\) for version 6.3 or above \(2323\)](#) for the system requirements of AhsayOBS.

1.4 Important Notes

Images, workflow or description in this document may be different from your installation. If you are uncertain about any of the instructions provided, please contact your service provider for advices.

2 Getting Start

This chapter describes the steps to setup the HP ProLiant MicroServer Gen8 with AhsayUBS. Before you start the setup, we assumed that you have some basic knowledge on the AhsayUBS setup and configuration. Please refer to our [forum article](#) for more information.

2.1 Hardware Requirements

Here is the list of hardware required for the setup.

- HP ProLiant MicroServer Gen8
- 4GB RAM or above
- Power cable
- SATA hard drive(s)
- VGA monitor
- USB keyboard
- Network cable

Note:

- There is no minimum requirement for storage. For example, you may install two 1TB hard disks to start with. If you install four 3TB disks with RAID 5 setup, there will be around 8TB storage.
- For detailed specification on the hardware, please refer to [HP website](#).
- Please make sure you have shutdown the HP MicroServer before you plug or unplug the hard disk.

2.2 Installer Image Deployment

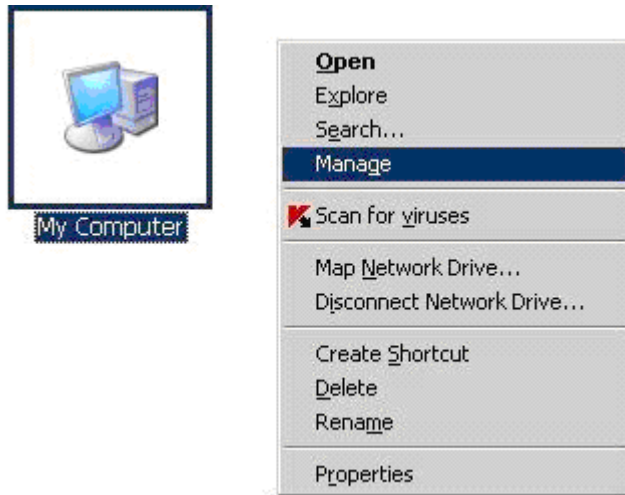
In this document, we shall demonstrate the steps to deploy the AhsayUBS with USB flash drive. Please take a note on the following.

- Prepare a USB flash drive with a minimum of 1GB storage size, **all the data on the flash drive will be destroyed by the deployment utility.**
- To avoid selecting the incorrect drive for deployment, it is advised to remove all other USB storage device such as USB portal hard disk and other USB flash drive on your machine.

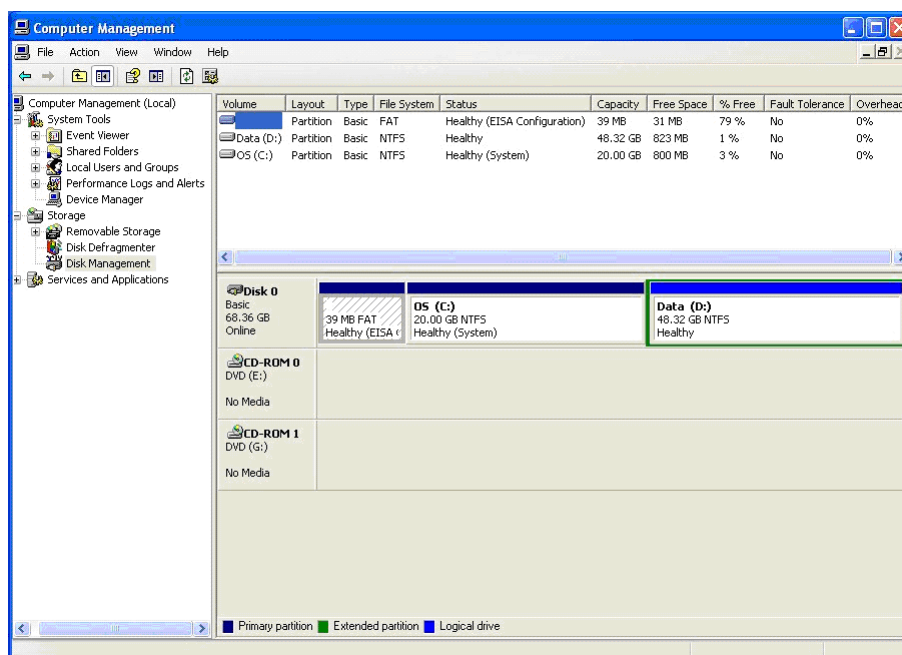
2.2.1 Preparation

Please follow the instructions below to view the current disk configuration from [Computer Management] Console:

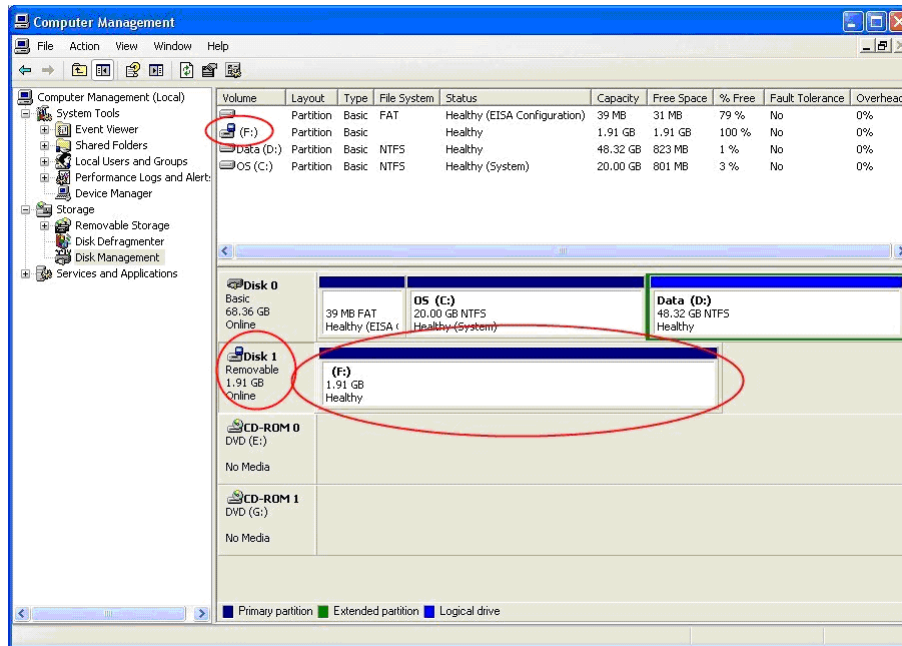
Right click on [My Computer] on desktop and select [Manage].



Click on [Disk Management] from the [Computer Management] MMC console. All connected storage device(s) will be listed and marked as [Disk *].

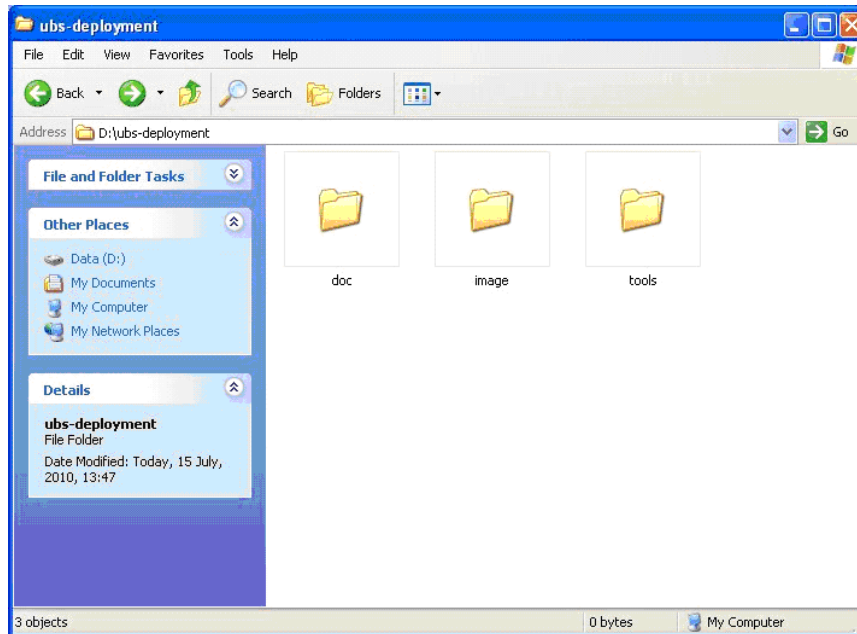


Attach the removable device to your computer and refresh the [Disk Management] console. This can be done by pressing the [F5] button on your keyboard. The new disk should be shown in the [Computer Management] console. In our example. It is shown as [Disk 1] with a drive letter "F".

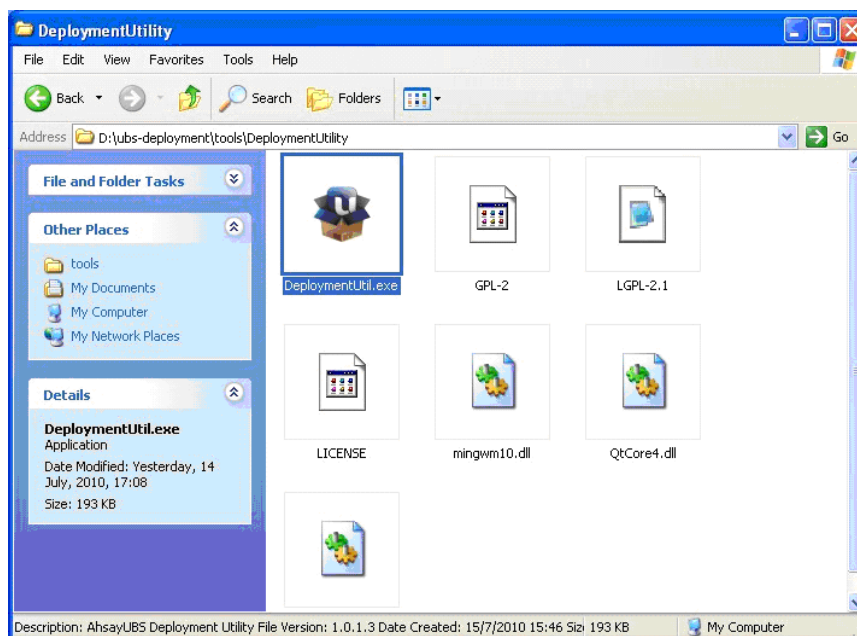


2.2.2 Deploy the Installer image with “AhsayUBS Deployment Utility”

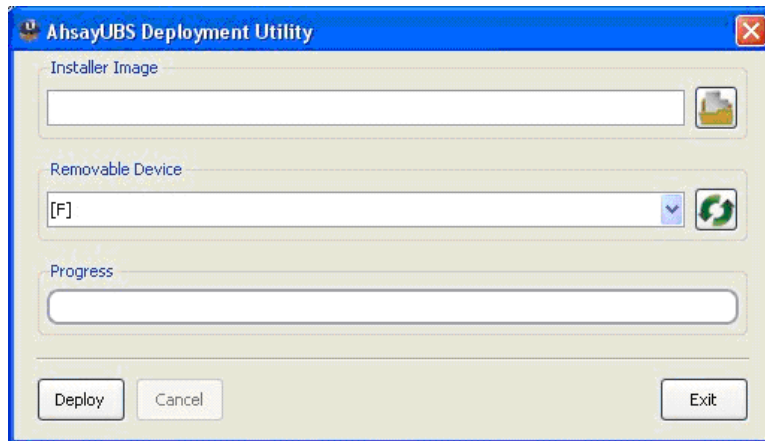
Download the AhsayUBS deployment bundle from our website.
Extract all files from the bundle to a temporary directory. In this example, it is d:\ubs-deployment.



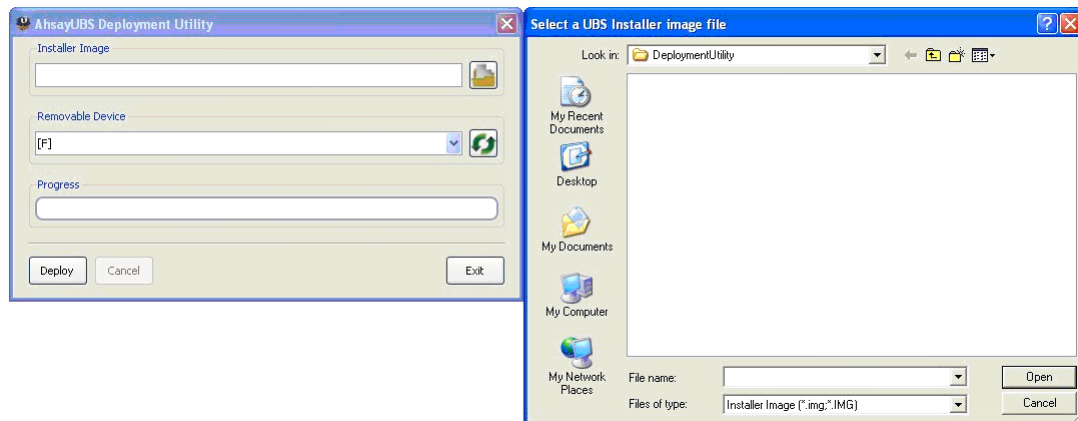
The deployment program is stored in DeploymentUtility folder under %UBS_DEPLOYMENT_DIR%\tools\. In this example, the path for the deployment utility is d:\ubs-deployment\tools\DeploymentUtility. Double click the “DeploymentUtil.exe” icon to launch the utility.



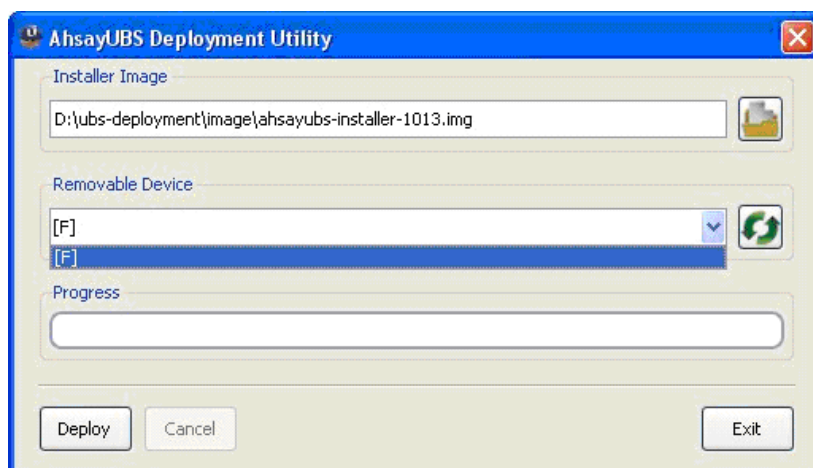
After launching the DeploymentUtil software, click on the '📁' from the [Image File] to select the image file to copy.



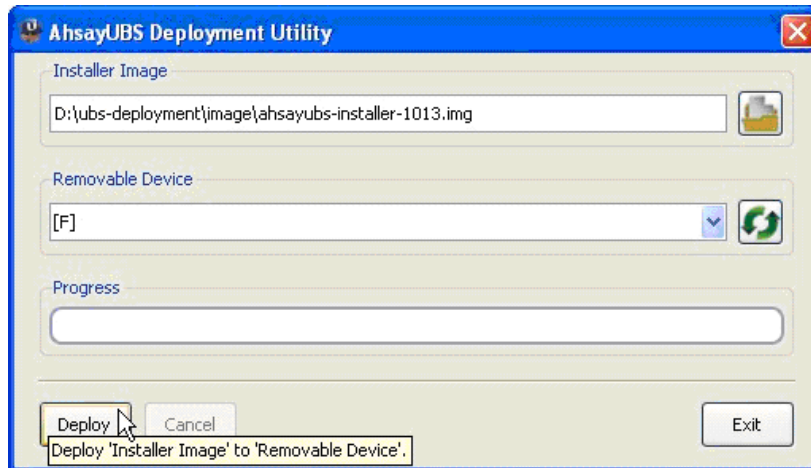
In the popup windows, select the AhsayUBS installer image, ahsayubs-installer-*.img from %UBS_DEPLOYMENT_DIR%\image, i.e. d:\ubs-deployment\image.



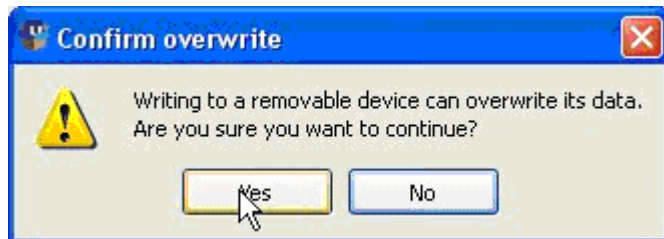
Select the target drive in the [Removable Device] drop down panel (i.e. drive F in our case).



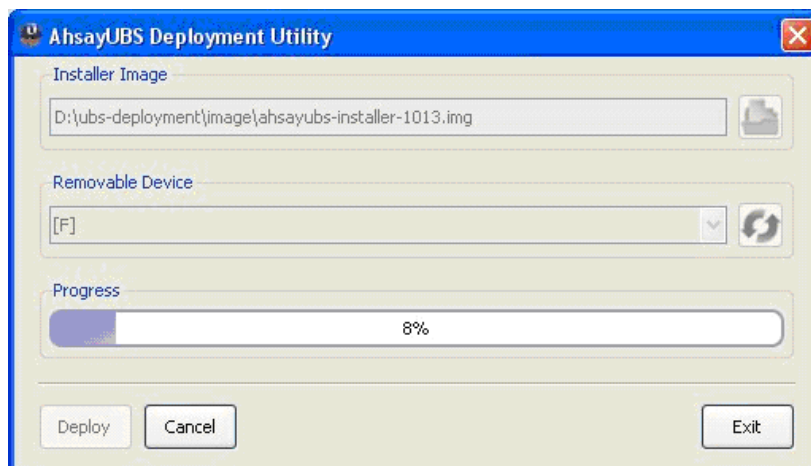
Click on the [Write] button to write the AhsayUBS installer image to the selected device.



After clicking the [Deploy] button, a warning dialog window will be displayed on the screen. Click the [Yes] button to continue. However, if you have chosen wrong image file/drive, please click the [No] button to abort the process and repeat step 1-7 again.



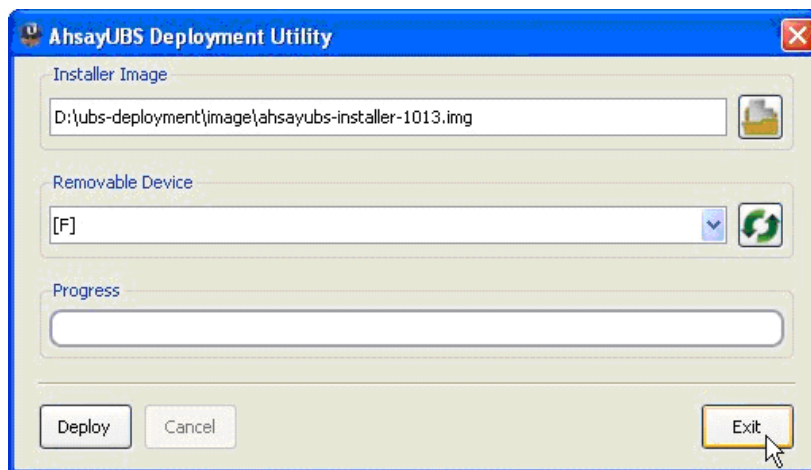
If you click the [Yes] button in step 8, the software will start writing the AhsayUBS image to your removable storage device. The write progress percentage will be shown in the Progress Bar. Please wait until all bytes are written to the selected removable storage device.



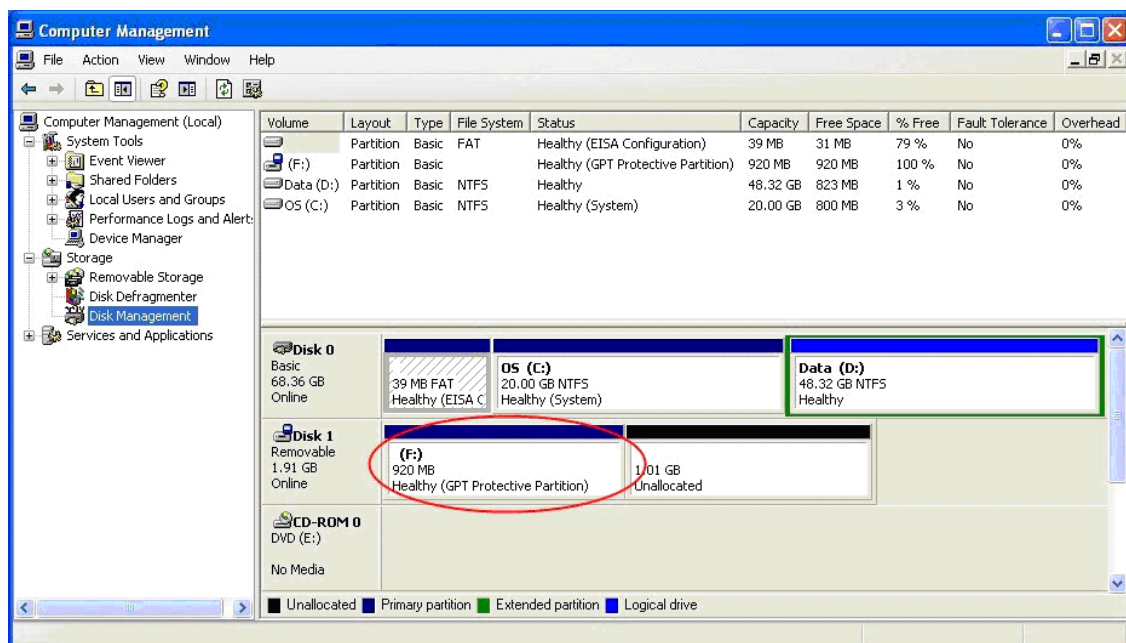
When it has completed the writing process, the following message will be shown on the screen.



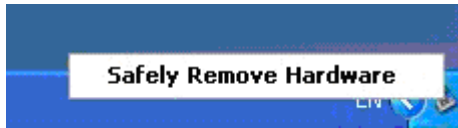
The deployment process is now completed. You may close the software by clicking the [Exit] button.



To verify the results, please go to [Computer Management] Console and select [Action] -> [Refresh] from the menu. The selected removable storage device should contain a GPT partition.



Then remove the hardware safely by, click on the [Safely Remove Hardware] icon in the system tray (i.e. It is located in the bottom-right hand corner of Windows). If there are multiple removable devices, please select the one which has been used in the deployment (i.e. drive F in our case).



The AhsayUBS installer image has been deployed to the removable device.

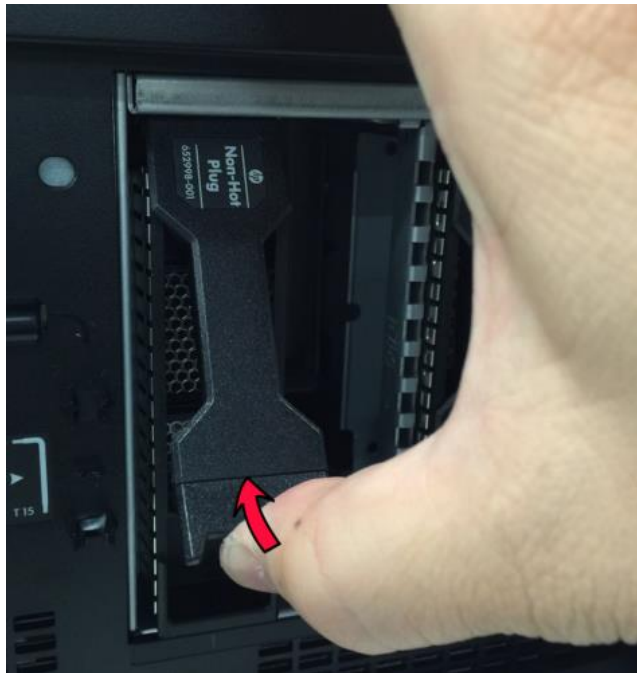
2.3 Hardware Setup

2.3.1 Install hard disks to the HP ProLiant MicroServer Gen8



Note: Make sure you have powered off your server before you plug or unplug the hard disk.

1. Push the lever lock upwards to unlock the lever.



2. Lift the lever and pull the hard disk tray out.

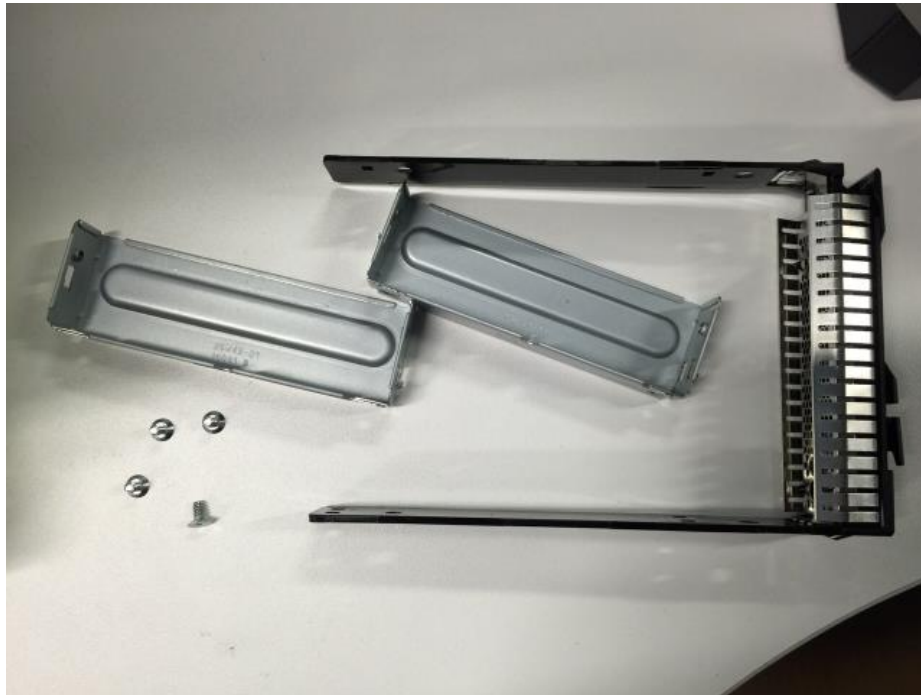


3. Take the service tool out, it is placed next to the hard disk tray. Use the T10 end to unscrew the screws in the hard disk tray.



4. Remove the two metal brackets and four screws from the hard disk tray with the T10 hex key.





5. Install a hard disk in the tray and screw the four T10 screws back.



6. Plug the hard disk tray with the hard disk back to the panel and lock the lever.



2.3.2 Connect the cables to the HP ProLiant MicroServer Gen8



Connect the cables to the back plane of the HP ProLiant MicroServer Gen8

- Plug the USB keyboard to one of the USB port. ⁱ
- Plug the VGA cable to the VGA port. ⁱ
- Plug the network cable to the server. ⁱⁱ
- Plug the power cable to the power supply.

Note:

- i. You can plug the USB keyboard or VGA cable with your KVM.
- ii. You can form a network with your notebook or computer to check on the settings before you plug your server to the network.

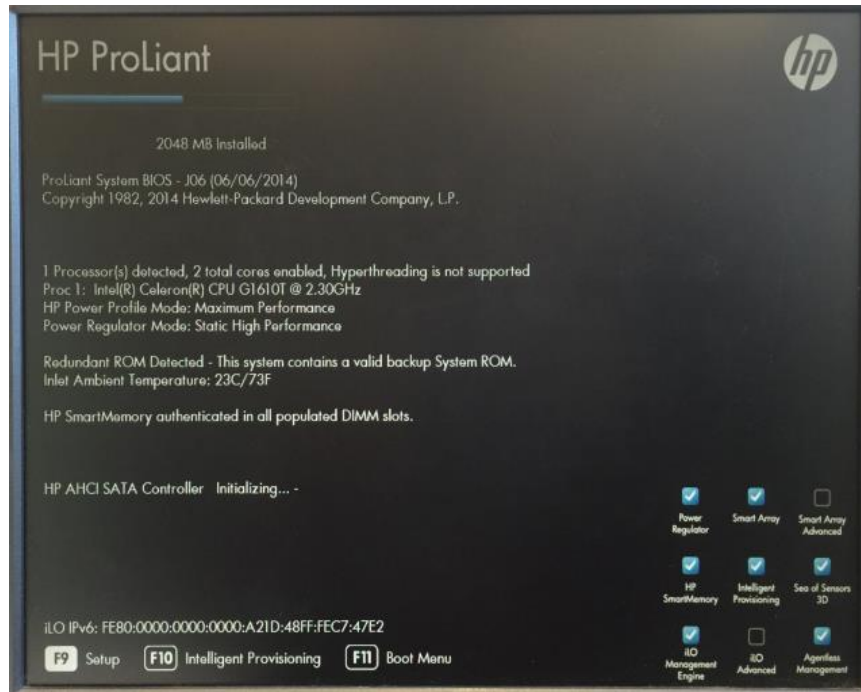
2.3.3 Plug the USB flash drive to the USB port



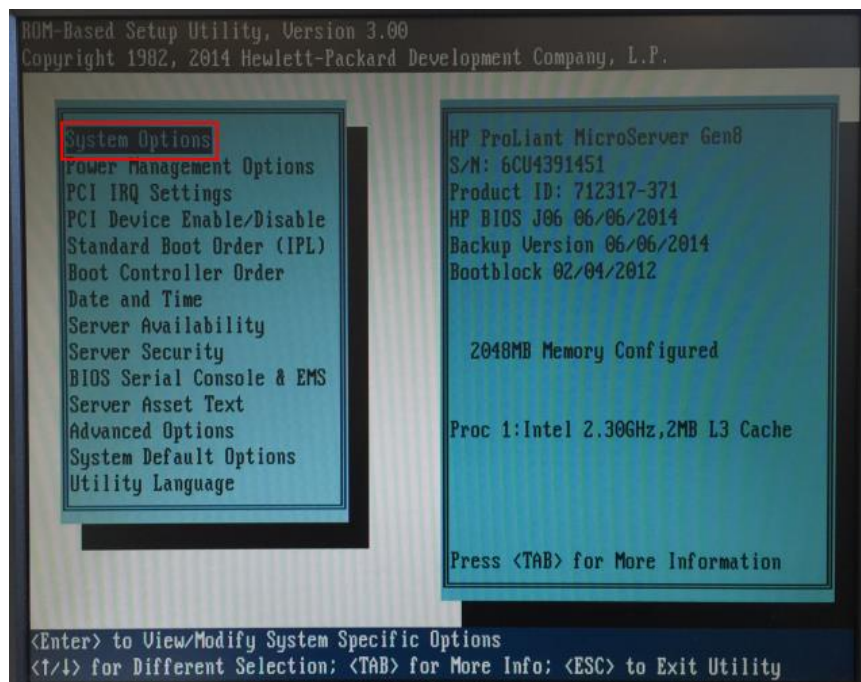
After you plug the USB flash drive, you can power on the server.

2.4 BIOS Settings

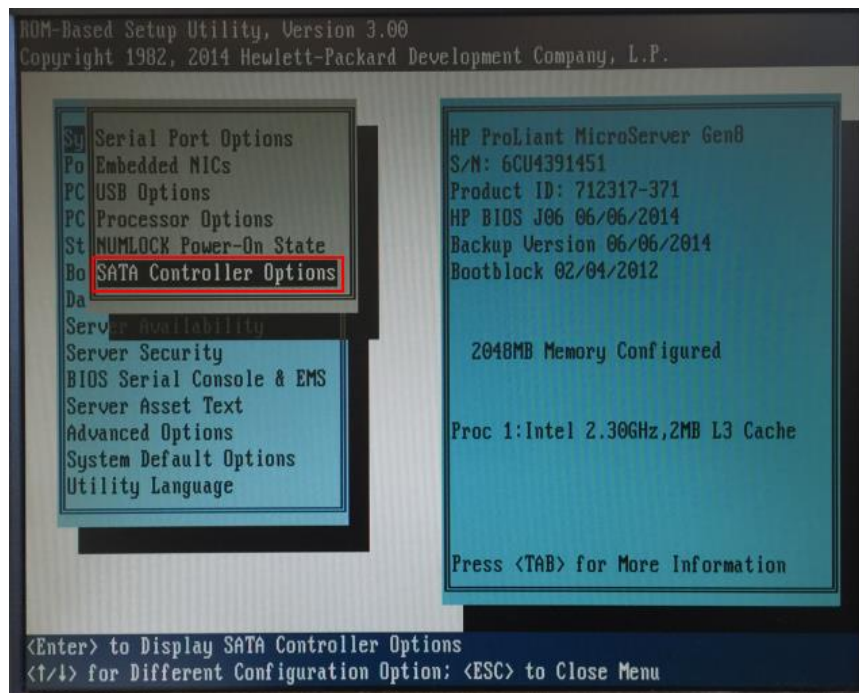
1. After you startup the HP ProLiant MicroServer Gen8, after about 1 minute. You will enter the above screen, press F9 to enter the setup.



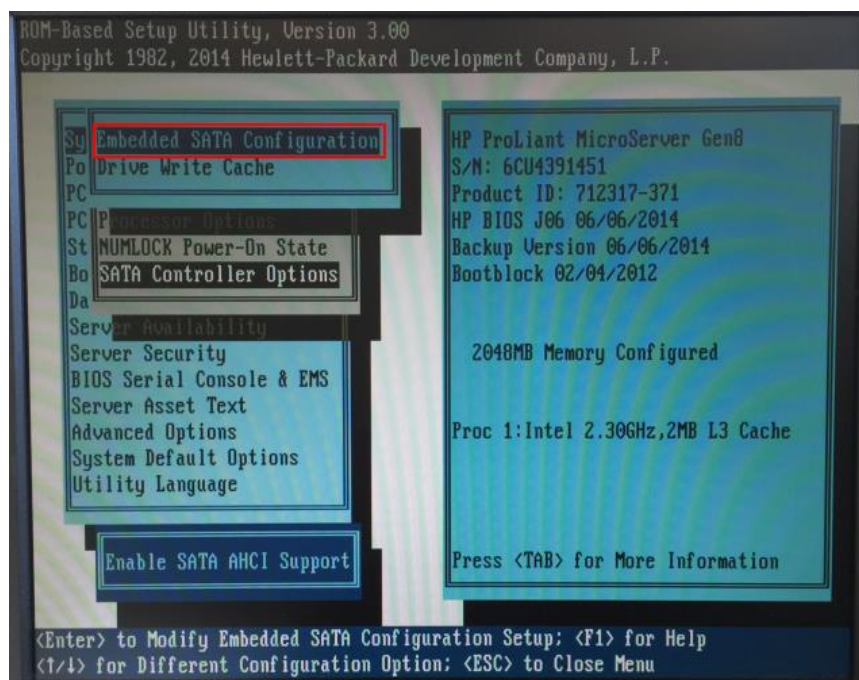
2. In the top menu, select the "System Options".



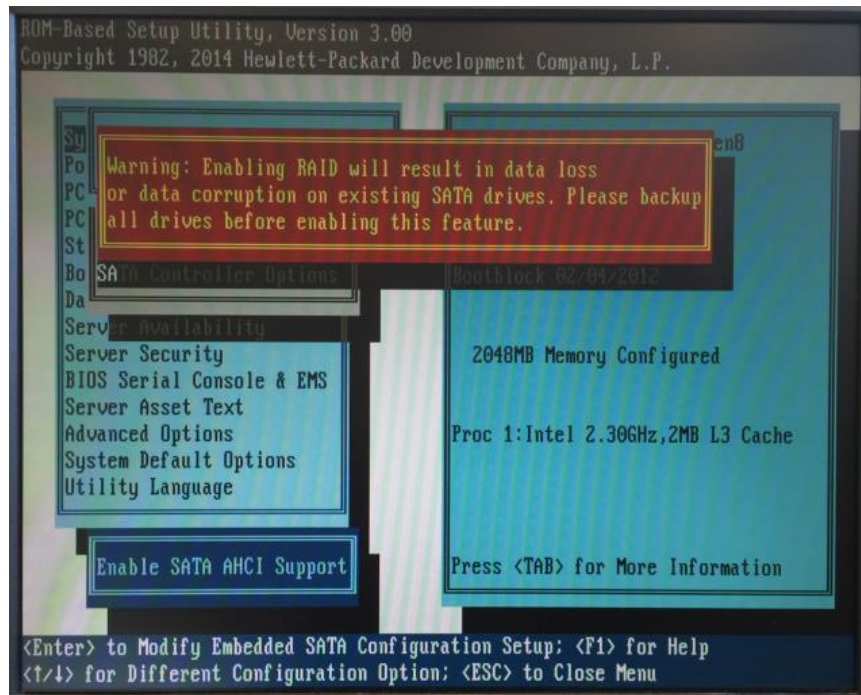
3. Select the "SATA Controller Option".



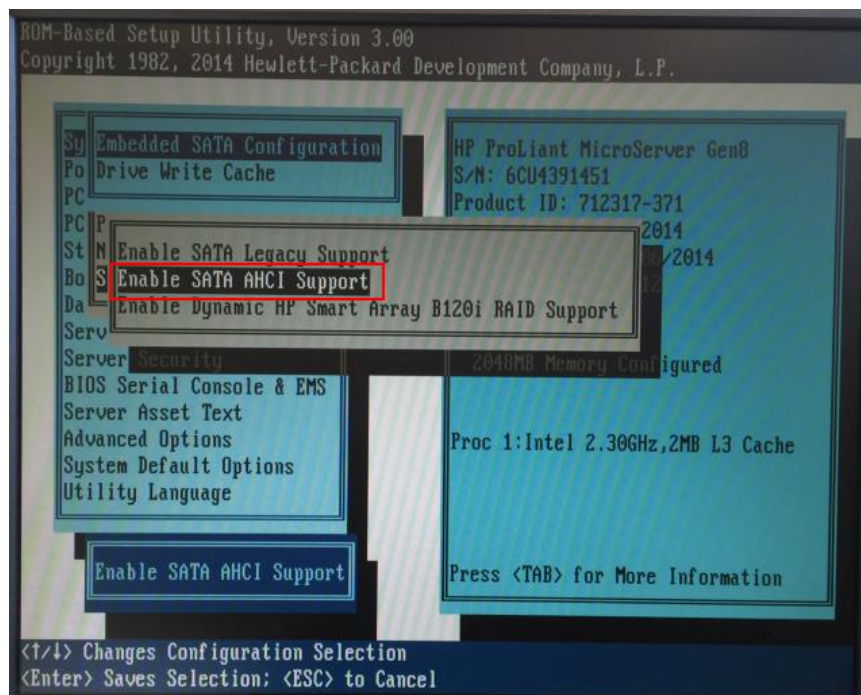
4. Select the "Embedded SATA Configuration".



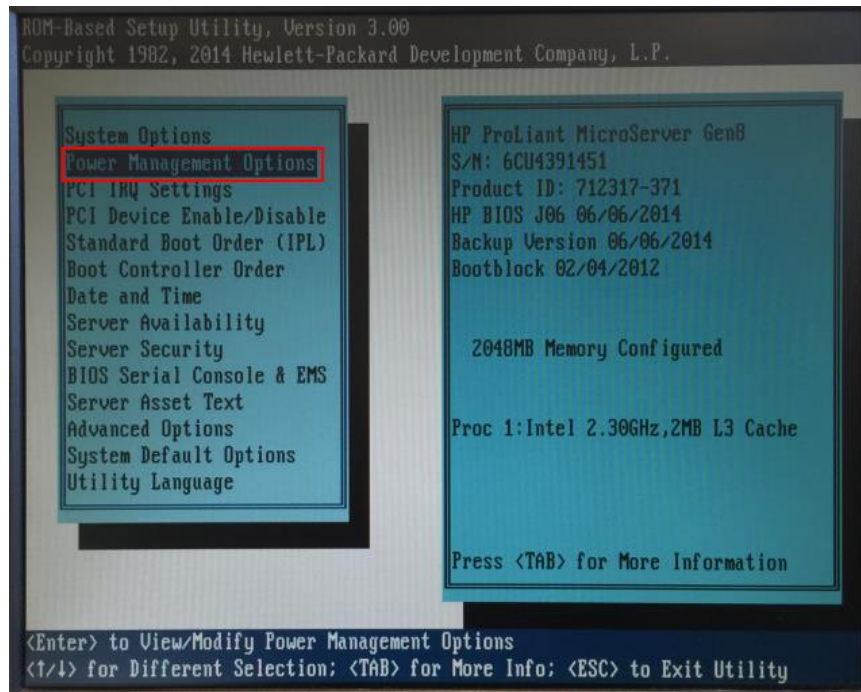
5. Press "Enter" to continue.



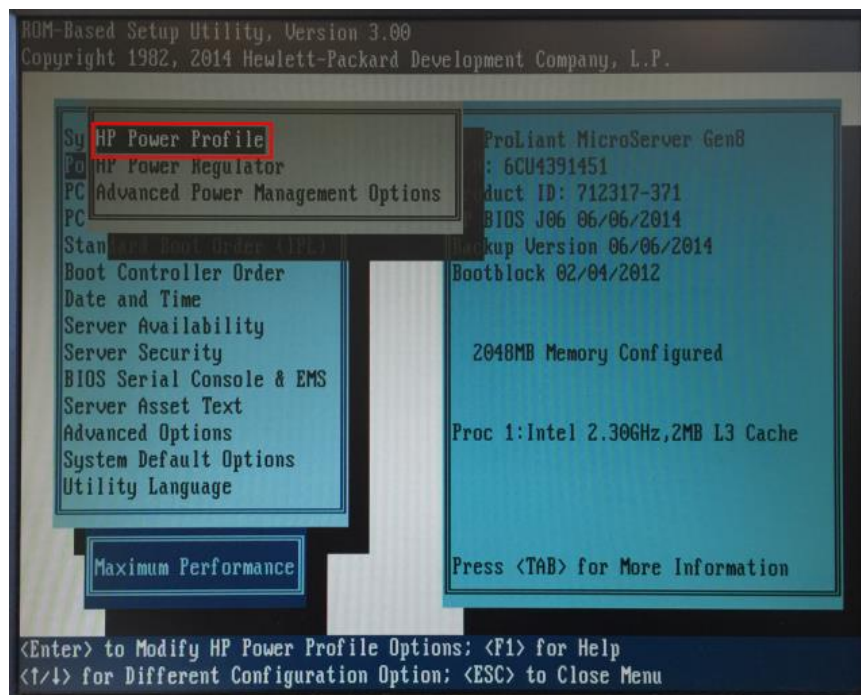
6. Select "Enable SATA AHCI Support", and press "Enter" to save the selection. Go back to the top menu.



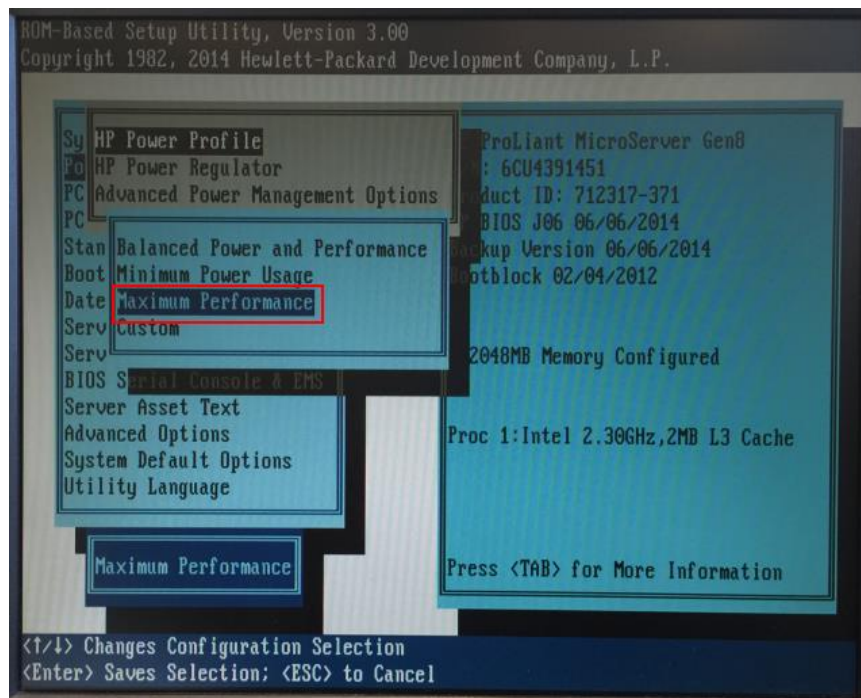
7. In the top menu, select "Power Management Options".



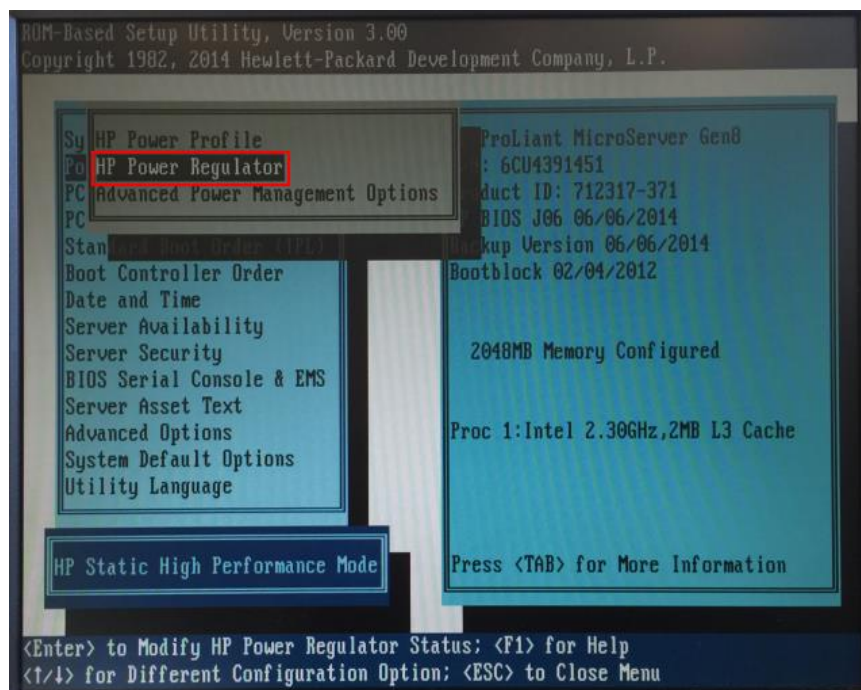
8. Select "HP Power Profile".



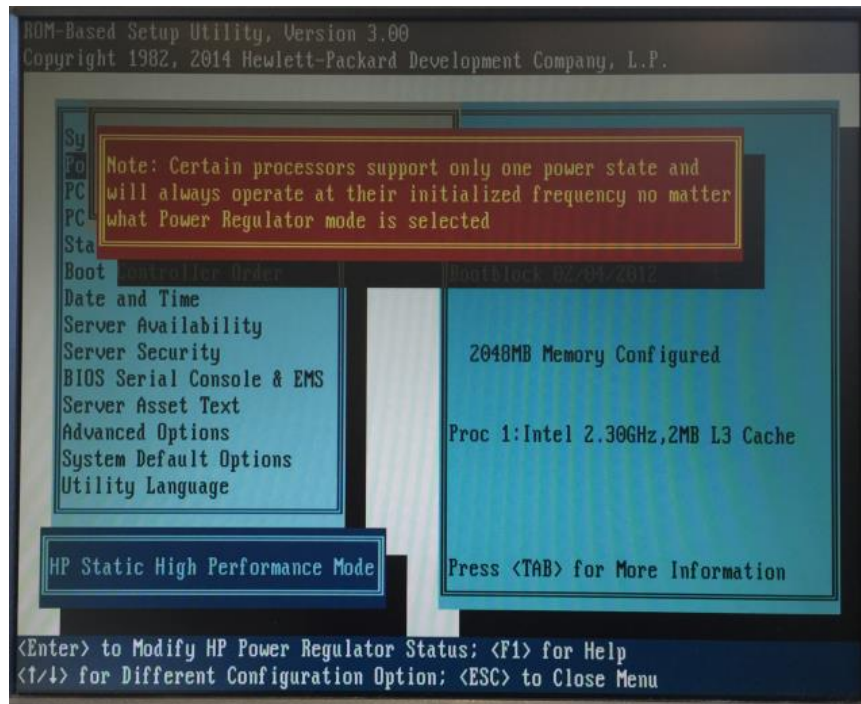
9. Select "Maximum Performance", press "Enter" to save selection. Go back to the previous sub-menu.



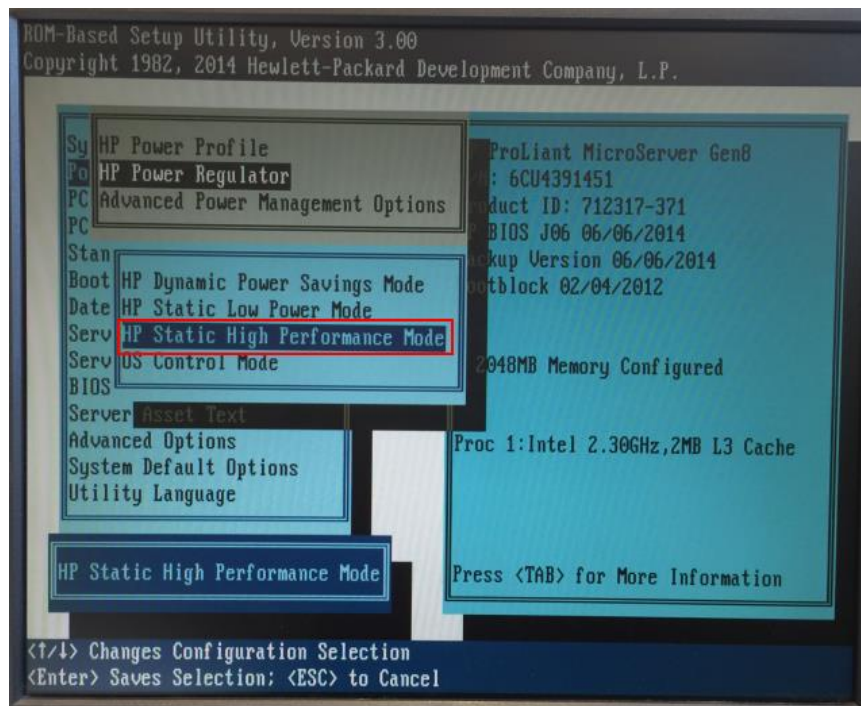
10. In the previous sub-menu, select "HP Power Regulator".



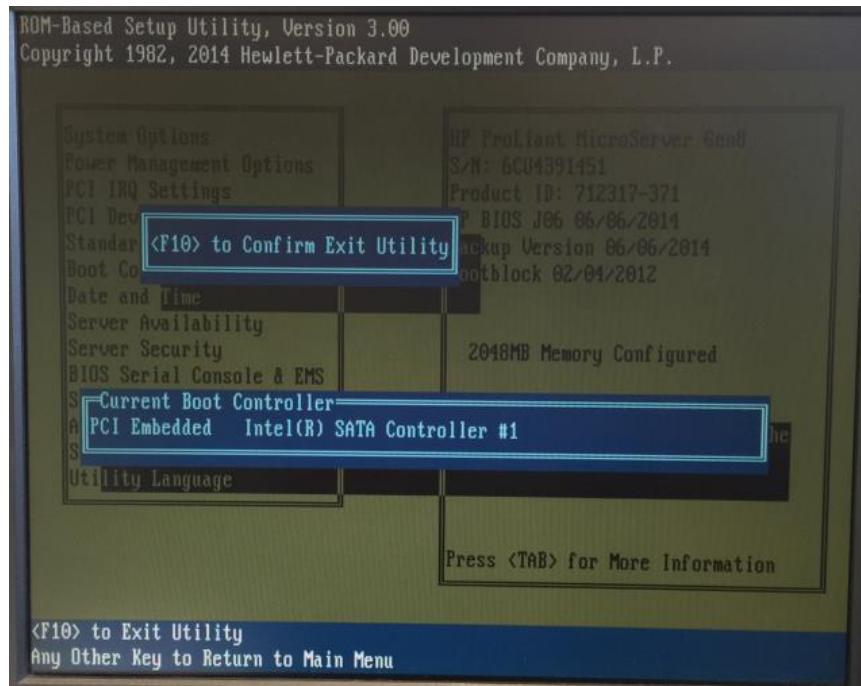
11. Press "Enter" to continue.



12. Select "HP Static High Performance Mode", press "Enter" to save selection.



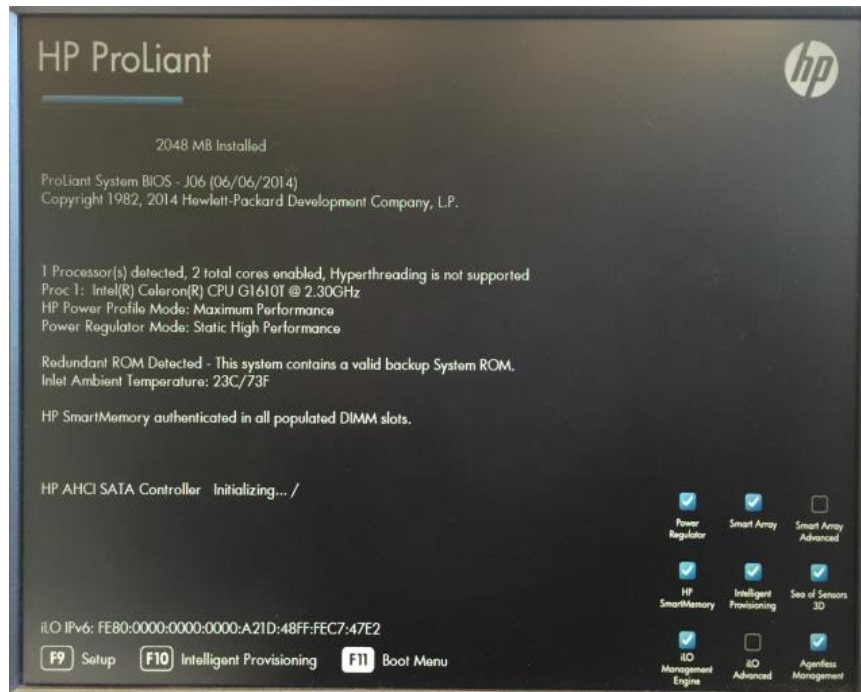
13. Press "F10" to Confirm Exit Utility, and machine reboots.



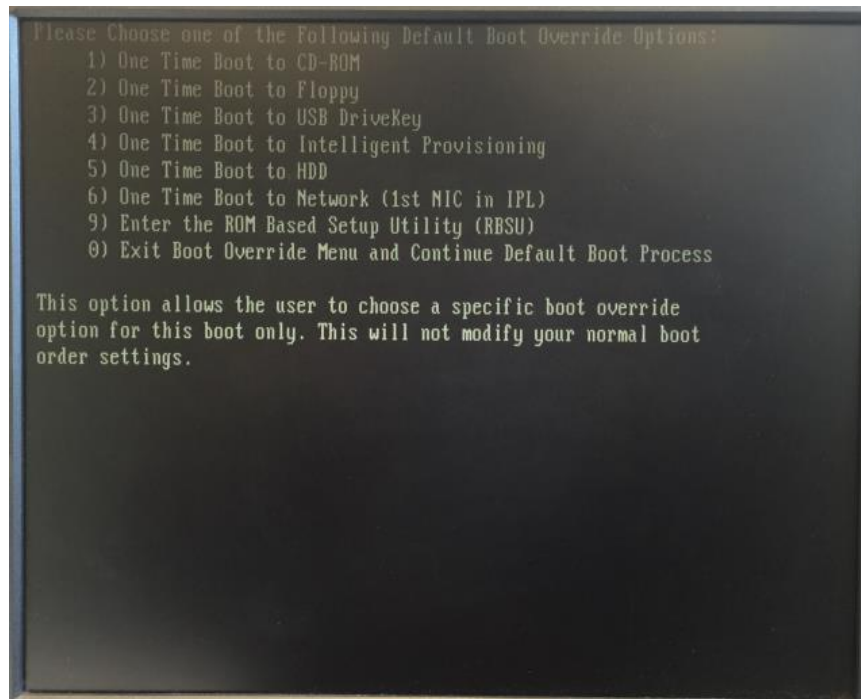
2.5 Boot up settings

To install the firmware from the USB flash drive, you need to configure the server startup with the USB flash drive.

1. Press F11 "Boot Menu" to enter the one time boot menu.



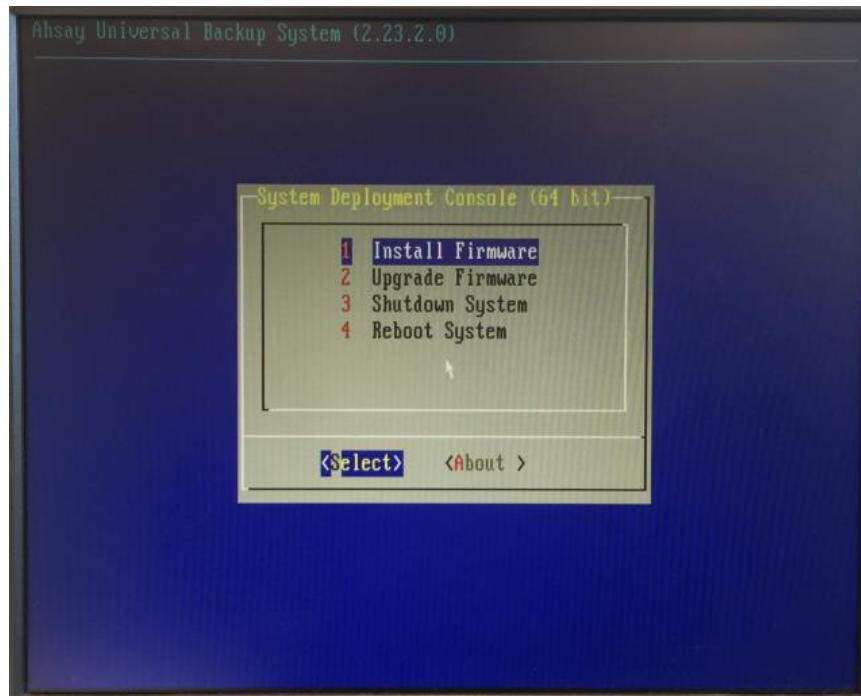
2. Select option 3 "One Time Boot to USB DriveKey"



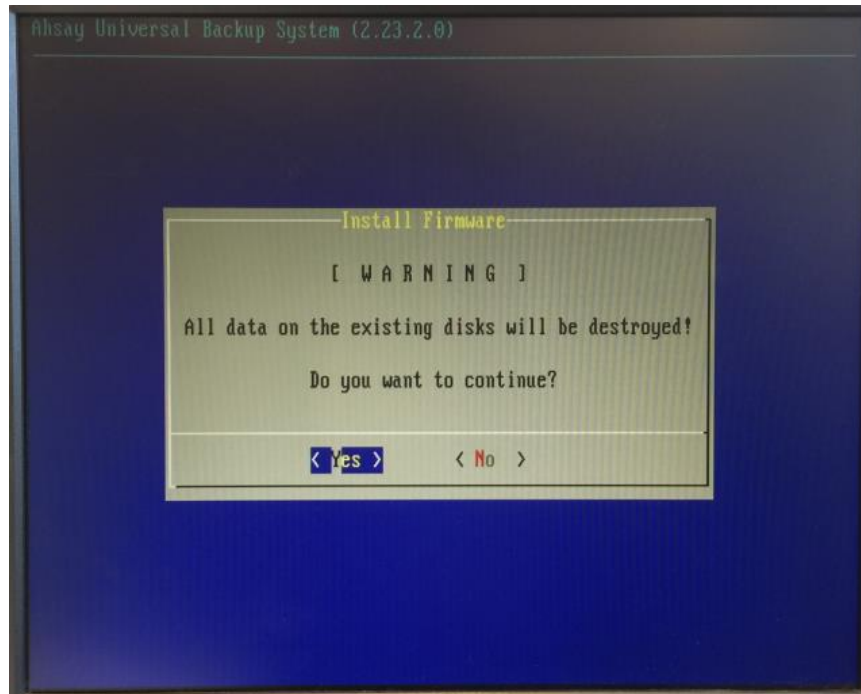
2.6 Install AhsayUBS Firmware

After you have reboot your server with the USB flash drive, you will enter the following menu.

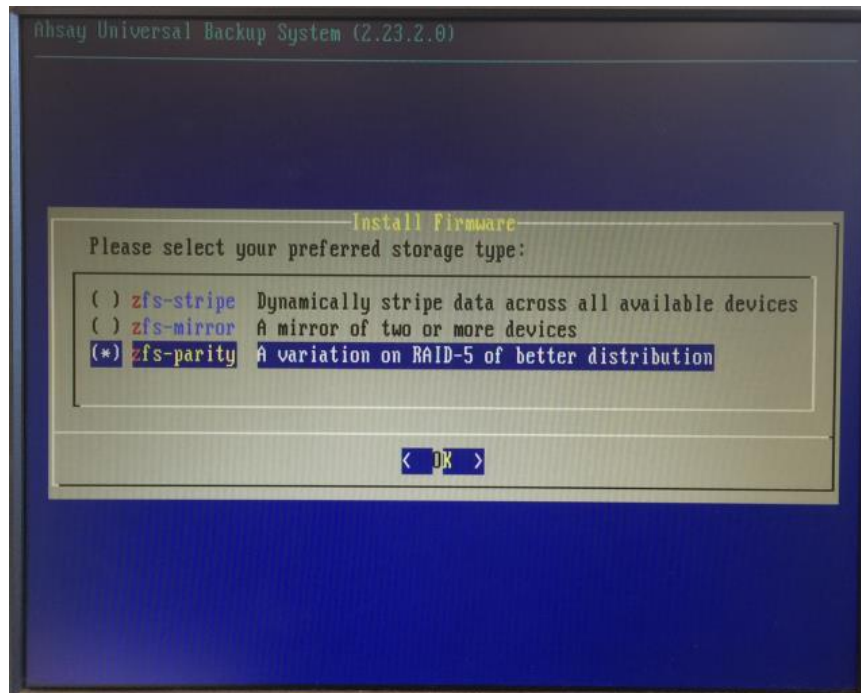
1. Select option 1 "Install Firmware", press enter to continue.



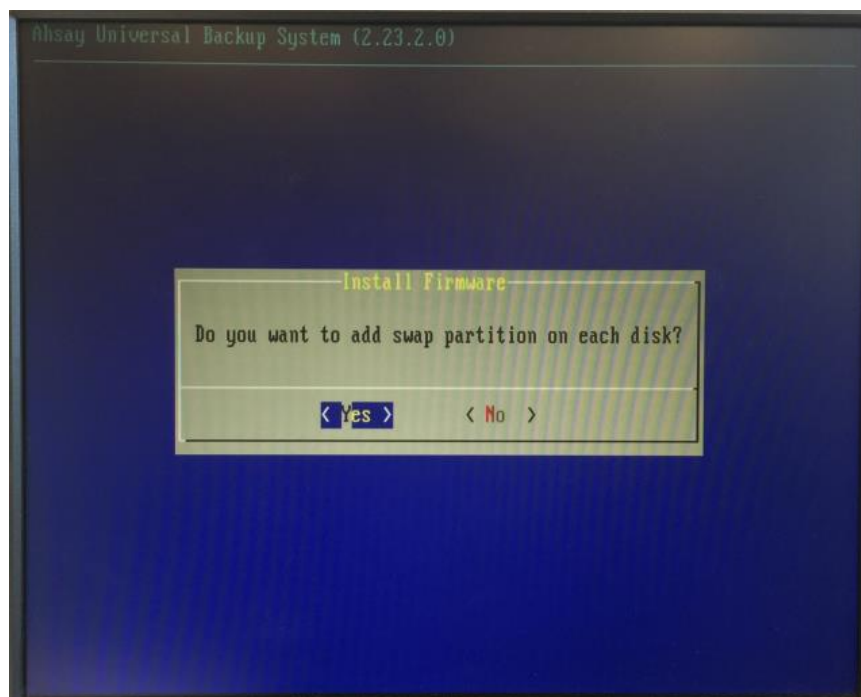
2. The installation procedure will deploy the image from your UBS flash drive to the hard disk. There is a warning prompt to tell you that all the existing data on your drive will be destroyed. If you have no concerns on the existing data in the hard disk, select <Yes> and press enter to continue.



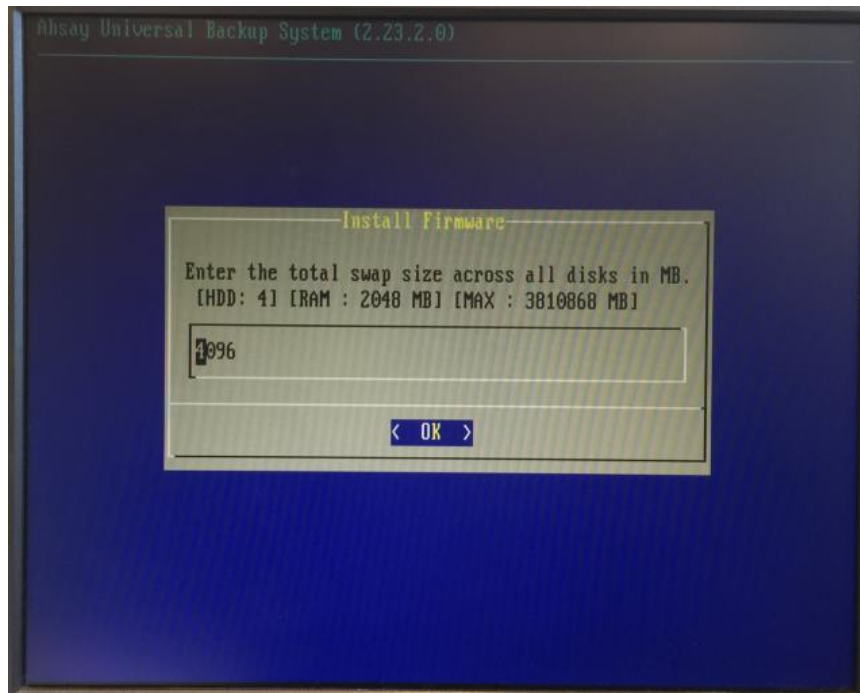
3. In this example, we have four 1TB drives and we are going to configure a RAID-5 setup. Select the option "zfs-parity A variation on RAID-5 of better distribution" with the space bar and press enter to continue.



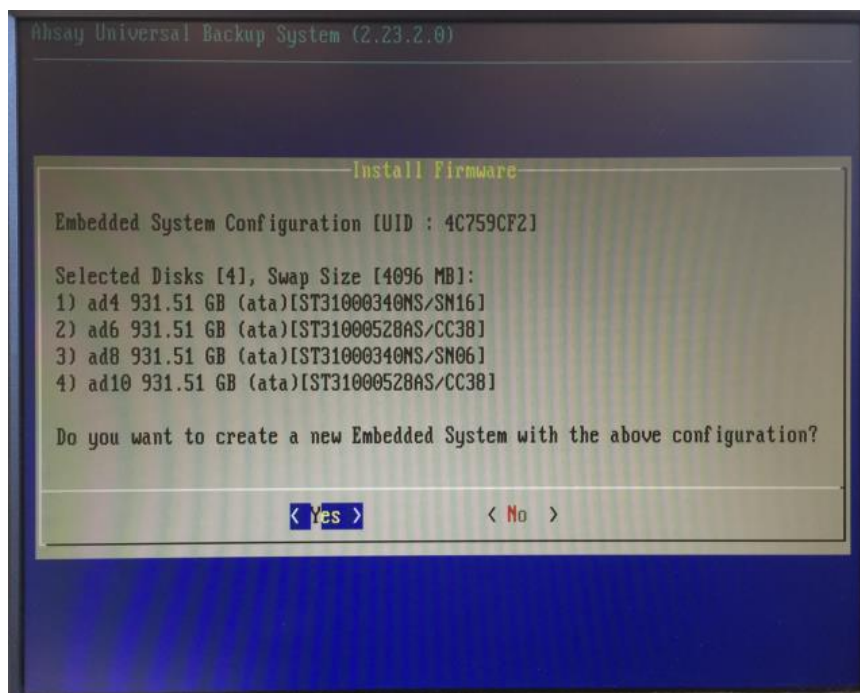
4. The system would require to setup a swap partition, select <Yes> and press enter to continue.



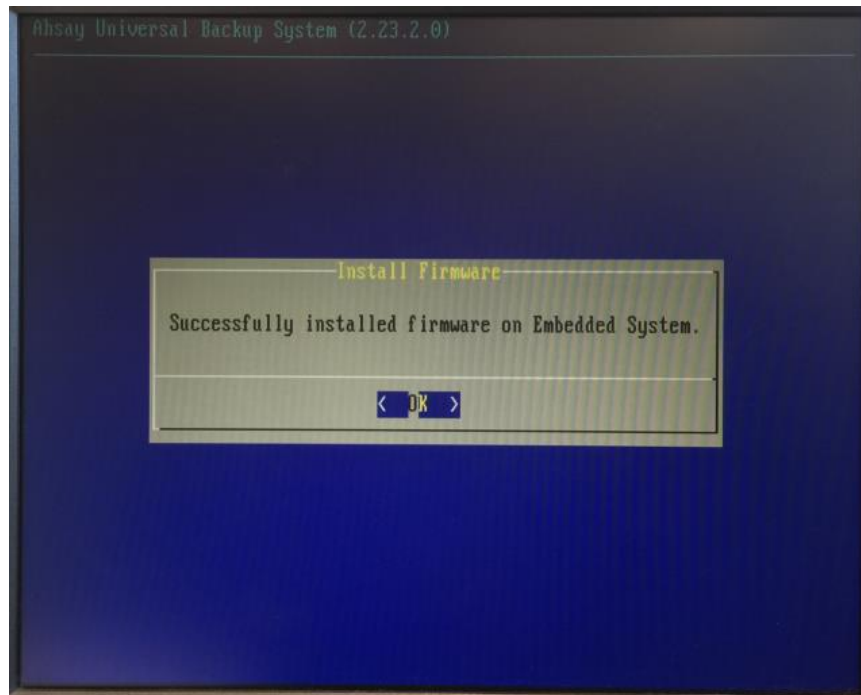
5. The default size of the swap partition would be based on twice the RAM size. In this example, we configured 2GB of RAM for testing, the default swap partition size is 4096 (4GB).



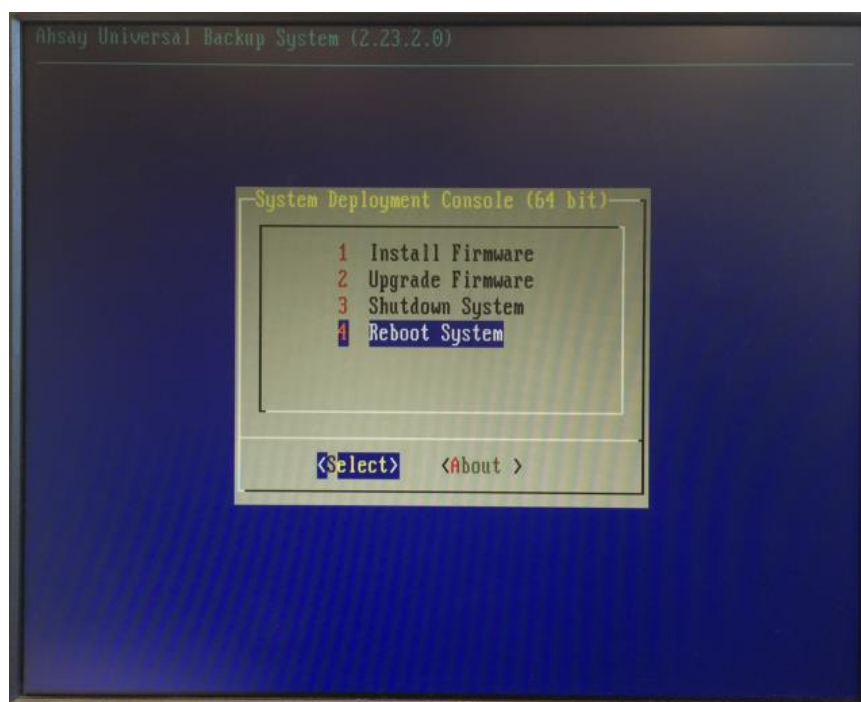
6. Select <Yes> if the settings are correct. Press enter to continue.



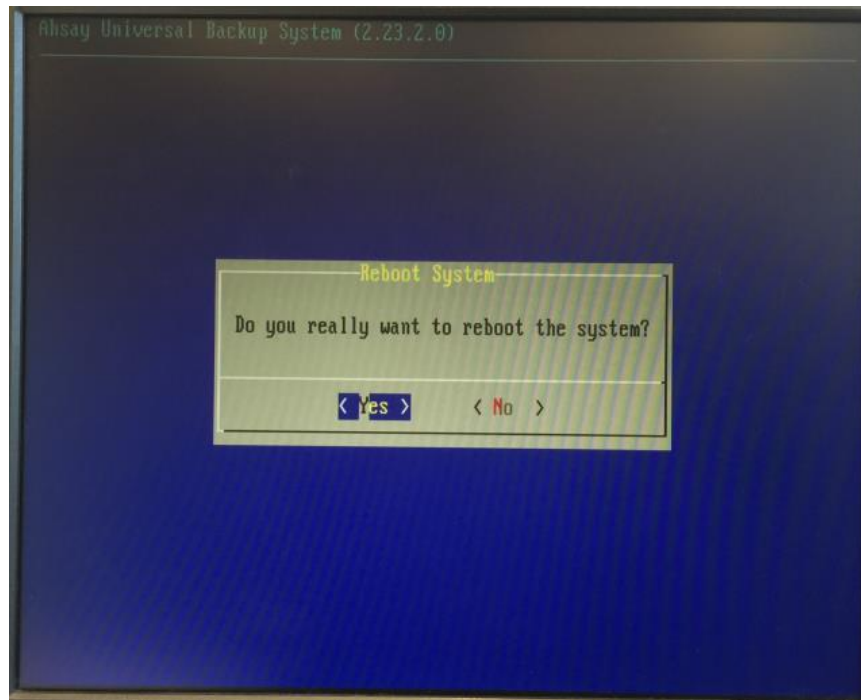
7. Wait for a few minutes for the deployment process to complete. When you see the following screen, press enter to continue.



8. Select the option 4 "Reboot System" to confirm your setup is successful. Press enter to continue.



9. To reboot the system, select <Yes> and press enter to continue.



10. You can remove the USB flash drive when the system reboots.

2.7 Network settings

In this section, we need to setup the network settings so that this HP ProLiant Server Gen8 can be connected from other machines.

Assumption:

In this example, the following network configuration will be used.

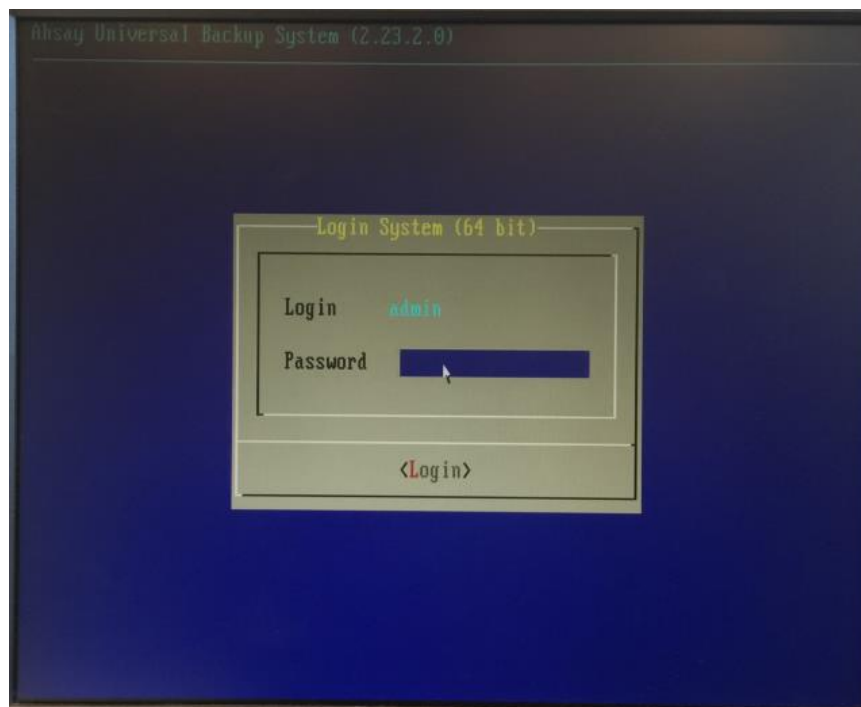
IP address for this HP ProLiant MicroServer Gen8: 192.168.1.123

Subnet mask of the network: 24 (255.255.255.0)

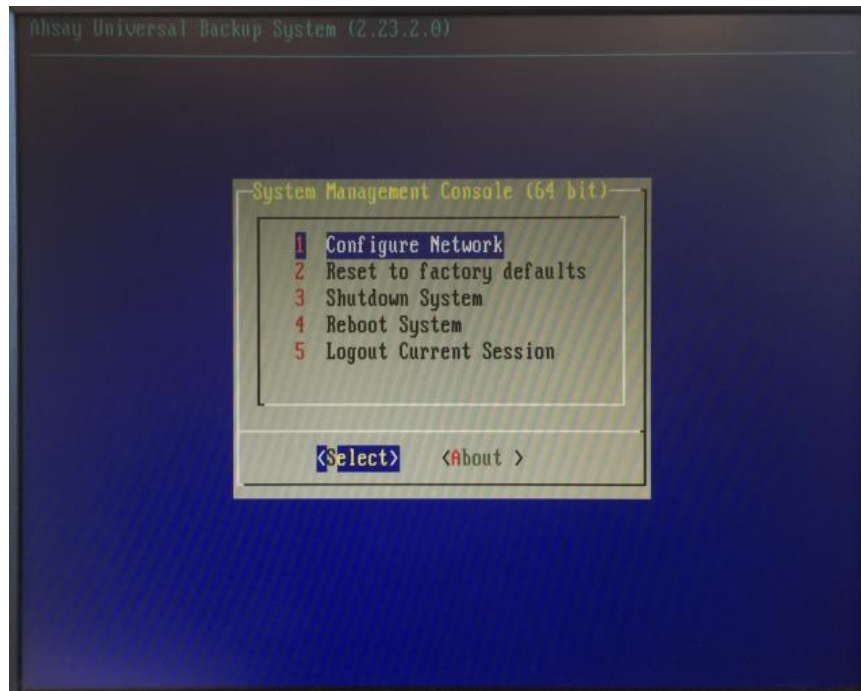
IP address for the gateway: 192.168.1.1

IP address for the DNS server: 192.168.1.1

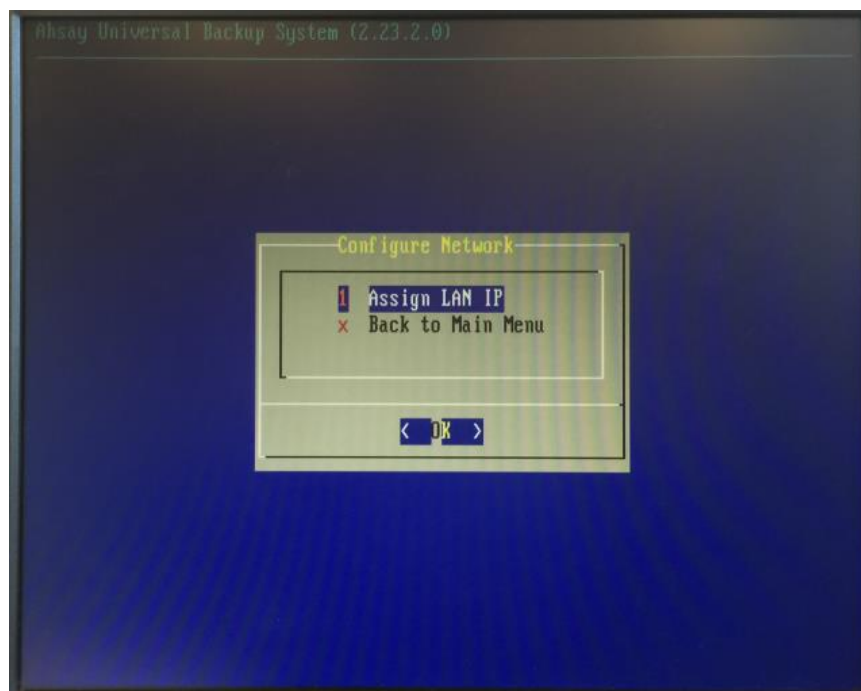
1. Login to the AhsayUBS console.



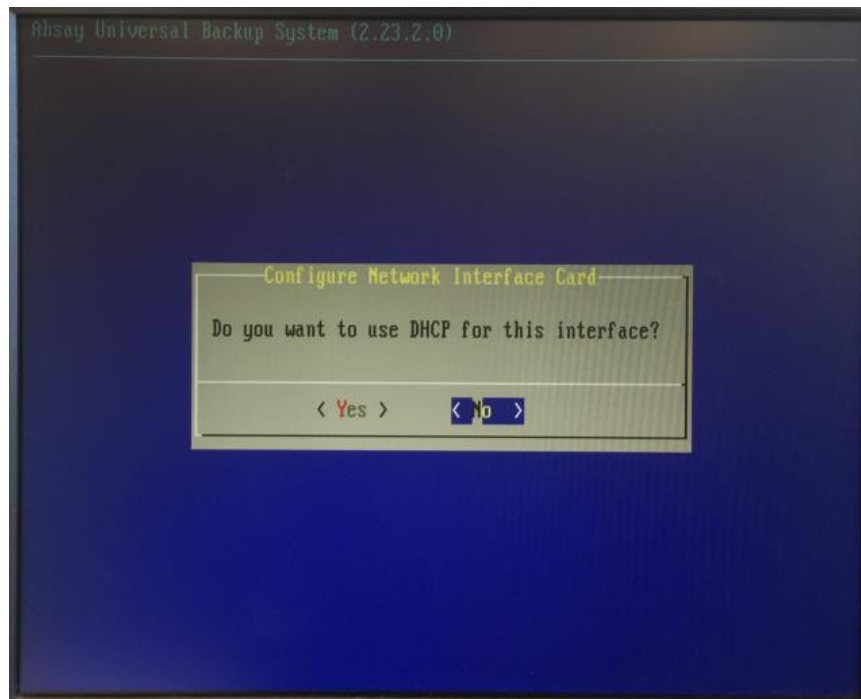
2. Press 1 to "Configure Network", press enter to continue.



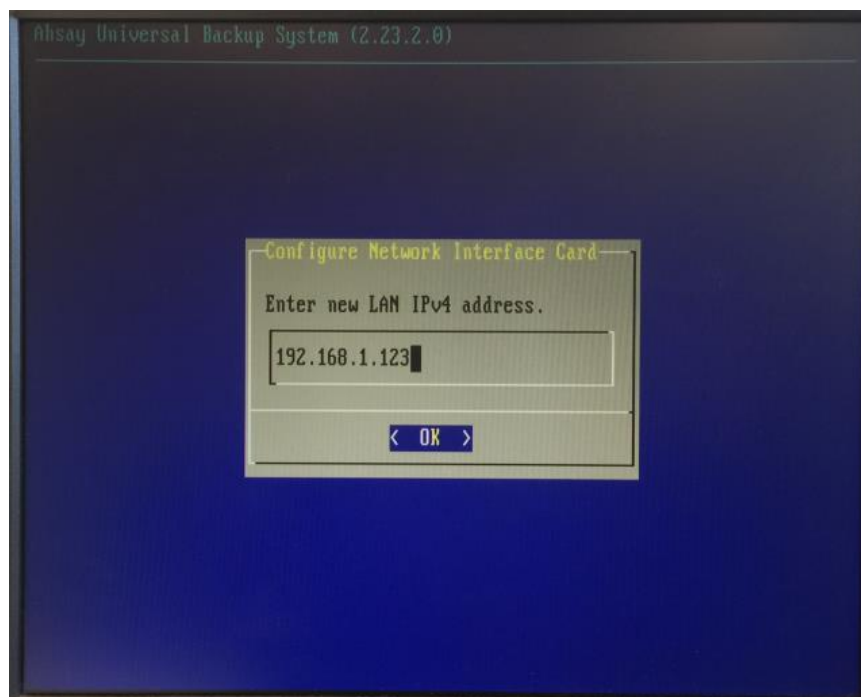
3. Press 1 to assign LAN IP, press enter to continue.



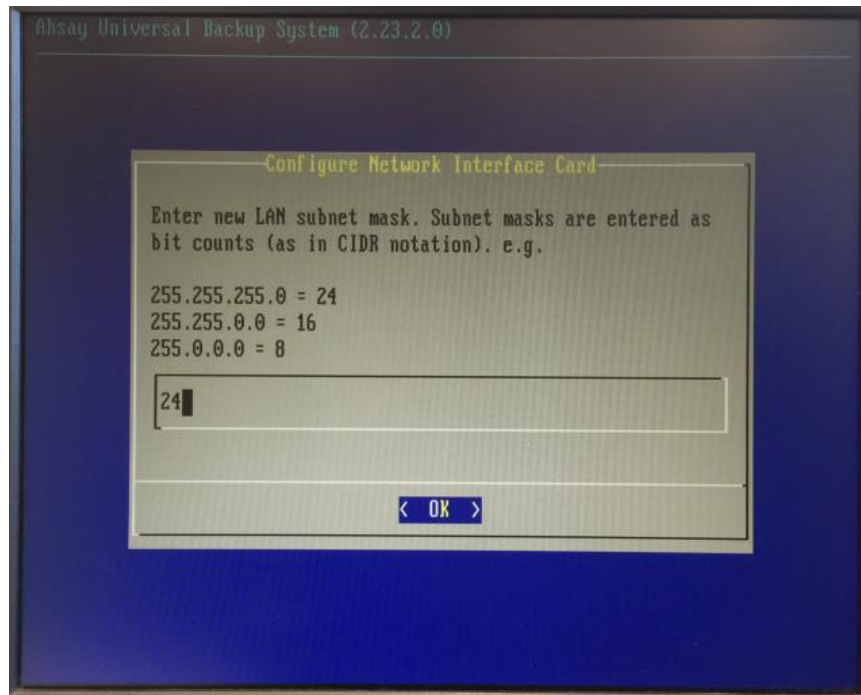
4. In this example, we are setting up a fixed IP for the LAN IP. Select <No> and press enter to continue.



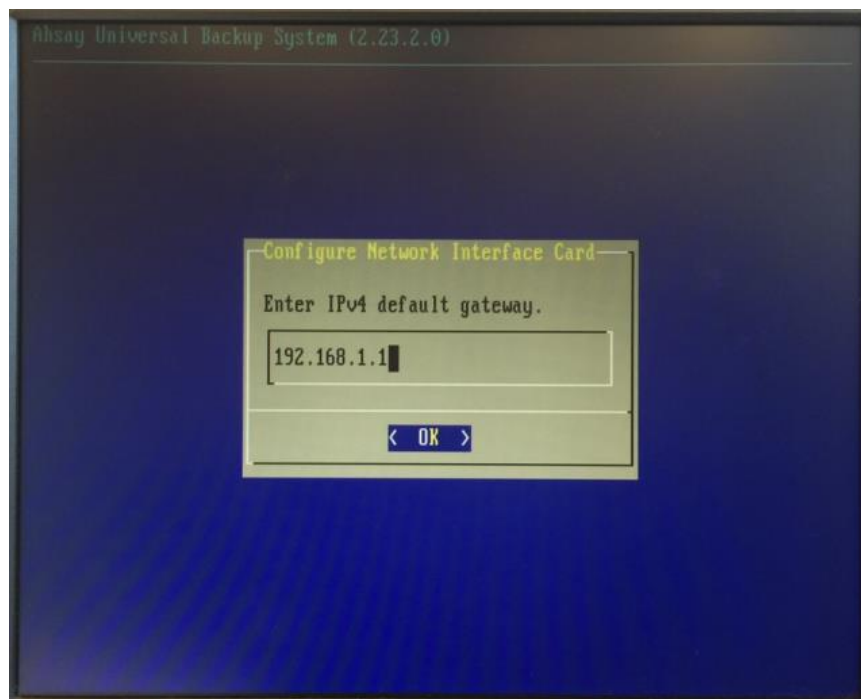
5. Enter a fixed IP, eg: 192.168.1.123 , press enter to continue.



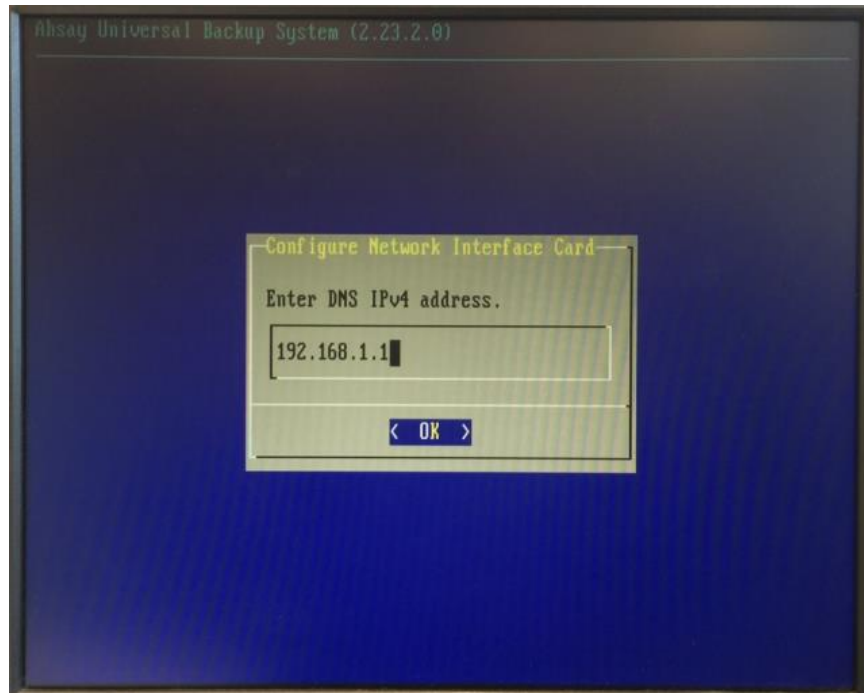
6. Enter the subnet mask, eg: 24 , press enter to continue.



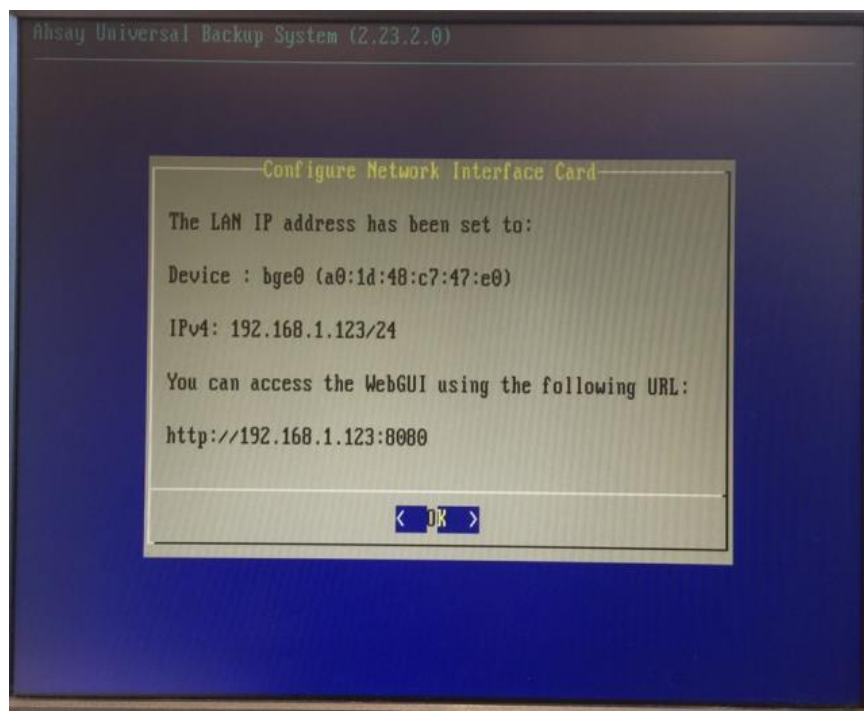
7. Enter the IP address of the default gateway, eg: 192.168.1.1 , press enter to continue.



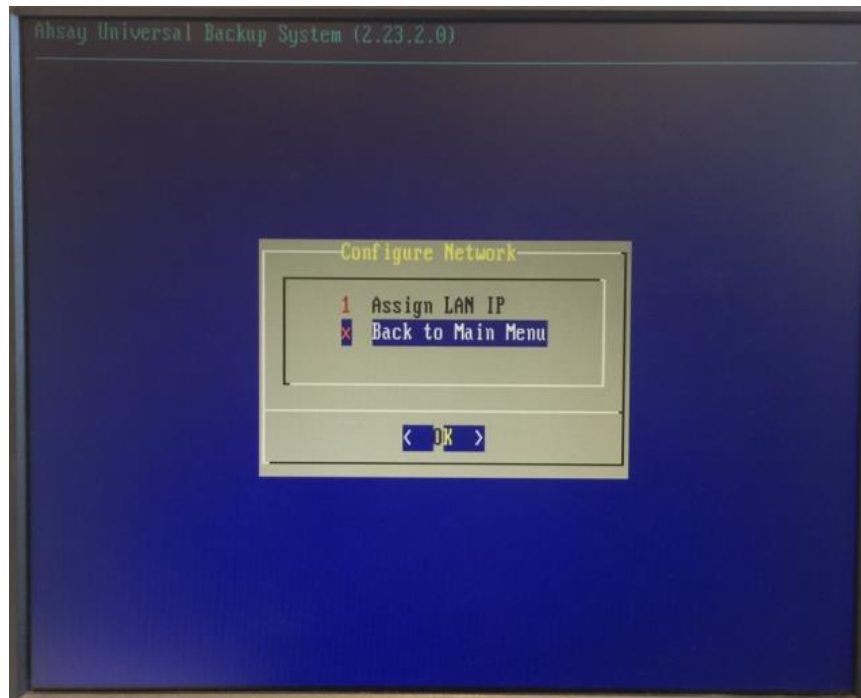
8. Enter the IP address of the DNS, eg: 192.168.1.1 , press enter to continue.



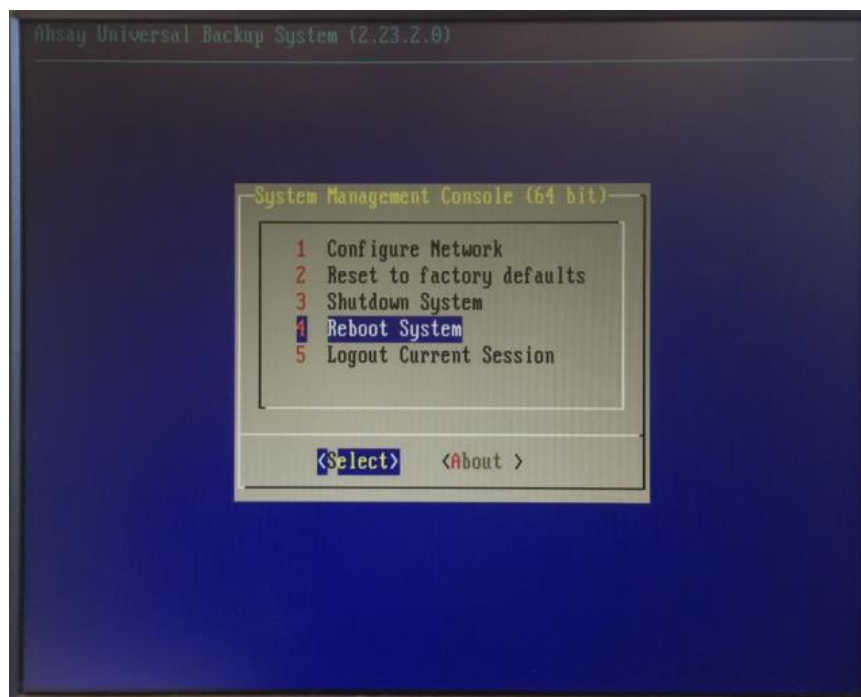
9. Copy the URL to access the WebGUI, after the server reboots, you can test the connection via the web browser on another machine. Press enter to continue.



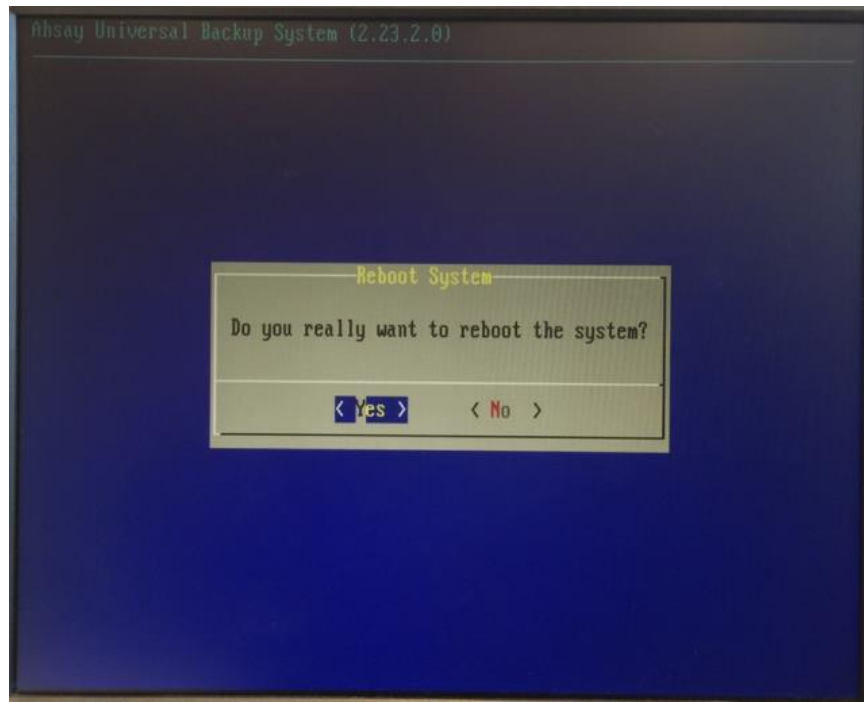
10. Select "Back to Main Menu", press enter to continue.



11. Select option 4 "Reboot System" to restart the server. Press enter to continue.



12. Select <Yes> and press enter to continue.



13. After the server restart, you can test the connection from another PC with a browser, eg: <http://192.168.1.123:8080> . This is the URL of the AhsayUBS management console. If you are testing the connection within the LAN environment, make sure you are on the same network and your PC has no firewall restriction on accessing the TCP port 8080.

Appendix

Appendix A Supported Languages

Language Code	Language
bg	Bulgarian
ca	Catalan
cs	Czech
da	Danish
de	German
el	Greek
en	English
es	Spanish
eu	Basque
fi	Finnish
fr	French
hu	Hungarian
is	Icelandic
it	Italian
iw	Hebrew
ja	Japanese
ko	Korean
lt	Lithuanian
nl	Dutch
no	Norwegian
po	Polish
pt_BR	Portuguese (Brazil)
pt_PT	Portuguese (Portugal)
ro	Romanian
ru	Russian
sl	Slovenian
sv	Swedish
th_th	Thai (Thai Digit)
tr	Turkish
zh_CN	Chinese (Simplified)
zh_TW	Chinese (Traditional)