Hewlett Packard Enterprise HPE Support Center

Unified Extensible Firmware Interface (UEFI) Deployment for ProLiant Gen10 Servers and Synergy - Configuring a PXE Server for a UEFI-based Client in a Windows Environment

System requirements

Configuring a Windows server

Configuring VLANs for UEFI network boot

Using the global VLAN configuration menu provided by the system utilities networkoptions

Using the configuration menu provided by specific NIC adapters

System requirements

All versions of Windows are supported by Gen10 servers and HPE Synergy compute modules can boot in UEFImode. Earlier versions of Windows, such as Windows XP and Server 2003, can only boot in Legacy BIOS mode.

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Configuring a Windows server

User can use software, such as Windows Deployment Services (WDS), to configure PXE boot for UEFI inWindows. In addition, user can use WDS in combination with deployment solutions, such as MicrosoftDeployment Toolkit (MDT) or Configuration Manager. Depending on the software used, configurationsteps might vary.

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Configuring VLANs for UEFI network boot

User can use the System Utilities **Network Options** > **VLAN Configuration** menu or the RESTful InterfaceTool to set a global VLAN configuration on enabled network interfaces, including those used in PXE boot,iSCSI boot, and FTP/HTTP boot, and for all pre-boot network access from the Embedded UEFI Shell.

When supported by the NIC card, you can also use the NIC-specific configuration menu in the **SystemUtilities** > **System Configuration** options to set VLAN settings for that port.

NOTE: When user is using a NIC card that supports an individual, card-specific VLAN configuration in a PCIeslot, user must only select one of the following methods: the global VLAN configuration method providedby the System Utilities Network Options, or the individual, card-specific VLAN configuration method.Both VLAN configurations must not be active under any circumstances.

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Using the global VLAN configuration menu provided by the system utilities networkoptions

Procedure

1. From the **System Utilities** screen, select **System Configuration** > **BIOS/Platform Configuration(RBSU)** > **Network Options** > **VLAN Configuration**.
2. Complete the following:
   - **VLAN Control** - Select **Enabled** to enable VLAN tagging on all enabled network interfaces. Thissetting is disabled by default.
   - **VLAN ID -** When **VLAN Control** is enabled, enter a global VLAN ID of 0 to 4094 for all enablednetwork interfaces.
   - **VLAN Priority -** When **VLAN Control** is enabled, enter a priority value of 0 to 7 for VLAN taggedframes.

3. Save changes.

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Using the configuration menu provided by specific NIC adapters

Procedure

1. From the **System Utilities** screen, select **System Configuration**.

   The **System Configuration** screen lists the **BIOS/Platform Configuration (RBSU)** option and the otheravailable device configurations, including the NICs.

2. Select the NIC port to be used for network boot.

   Configuration options for the NIC port appear. Option titles vary by NIC card.

3. Select the configuration menu option for your NIC (for example, **MBA Configuration Menu**).

   A configuration menu appears.

4. For **VLAN Mode**, select **Enabled**, and press **Enter**.
5. For **VLAN ID (1..4094)**, enter the VLAN ID that matches the VLAN setting on your network, and pressEnter.
6. Press **Esc** twice, and then press **Y** to save and exit the configuration.
7. Reboot the server.

NOTE: User cannot use the RESTful Interface Tool to configure the NIC adapter provided VLAN settings.

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