



**Hewlett Packard**  
Enterprise

## HPE SimpliVity DL380 Gen10 Servers - Recommended BIOS settings

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## Issue

Recommended BIOS settings for HPE SimpliVity DL380 Gen10 Servers

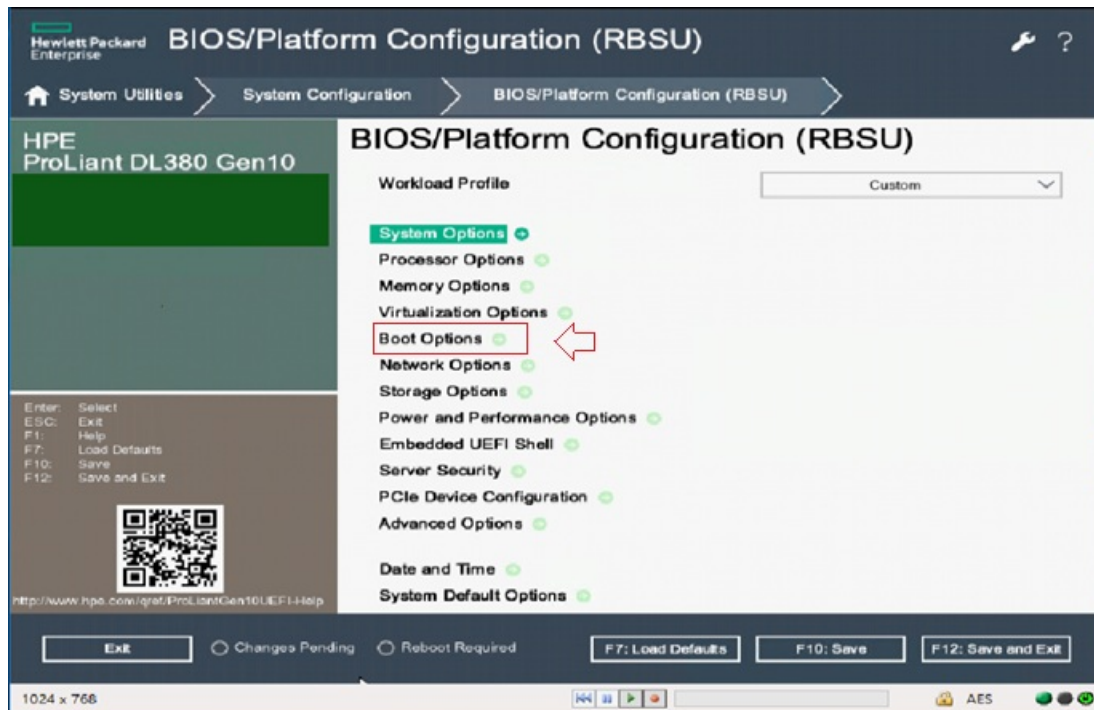
## Environment

HPE SimpliVity DL380 Gen10 Servers

## Resolution

Please ensure below settings are made in the BIOS for HPE SimpliVity DL380 Gen10 Server.

1. Power on the server. During the POST Press **F9** for the server to boot to BIOS (System Utilities).
2. Select **System Configuration** menu.
3. Select **BIOS/Platform Configuration (RBSU)** menu.



4. Select **Workload Profile**.
  - a. Set Workload Profile to **Custom** from the drop down menu.
5. Select **System Options**
  - a. Select **USB Options** > Set **Internal SD Card Slot** to **Disabled**. Press **ESC** key to go to the **System Options** menu.
  - b. Select **Boot Time Optimization** > **UEFI POST Discovery Mode** to **Force Full Discovery**. Press **ESC** key to go to the **System Options** menu.
  - c. Select **Server Availability** > **Power-On Delay** to **No Delay**. Press **ESC** key to go to the **System Options** menu.
  - d. Select **Server Asset Information** > **Custom Post Message** > Type **SimpliVity 380 Gen10** in the box. Press **ESC** key to go to the **System Options** menu.

Press **ESC** key twice to go back to the **BIOS/Platform Configuration (RBSU)** menu

#### 6. Select **Boot Options**

- a. Select **Boot Order Policy** to **Attempt Boot Order Once**.
- b. Select **UEFI Boot Settings** > **UEFI Boot Order** as follows:
  - i. Slot 3: HPE Smart Array E208i-p SR Gen10
  - ii. Generic USB Boot

Press ESC key thrice to go back to the **BIOS/Platform Configuration (RBSU)** menu

#### 7. Select **Network Options** > **Network Boot Options**

- a. **Network Boot Retry Support** to **Disabled**.
- b. **Embedded LOM 1 Port 1** to **Disable**.
- c. **Embedded FlexibleLOM 1 Port 1** to **Disable**.

Press ESC key twice to go back to the **BIOS/Platform Configuration (RBSU)** menu

#### 8. Select **Storage Options**

- a. Select **NVME Express Options** > **Embedded NVME Express Option ROM** to **Disabled**.

Press ESC key twice to go back to the **BIOS/Platform Configuration (RBSU)** menu

#### 9. **Power and Performance Options**

- a. Set **Power Regulator** to **Static\_High\_Performance\_Mode**.
- b. Set **Minimum\_Processor\_Idle\_Power\_Core\_C-State** to **No\_C-states**.
- c. Set **Minimum\_Processor\_Idle\_Power\_Package\_C-State** to **No\_Package\_State**.
- d. Set **Energy/Performance\_Bias** to **Maximum\_Performance**.
- e. Set **Collaborative\_Power\_Control** to **Disabled**.
- f. Set **NUMA\_Group\_Size\_Optimization** to **Clustered**.
- g. Set **Uncore\_Frequency\_Scaling** to **Maximum**.
- h. Set **Sub-NUMA\_Clustering** to **Disabled**.
- i. Set **Energy\_Efficient\_Turbo** to **Disabled**.
- j. Set **Intel UPI Options** > **Intel UPI Link Power Management** to **Disabled**.

Press ESC key once to go back to the **Power and Performance Options** menu

- k. Select **Advanced Power Options** > **Redundant Power Supply Mod** to **High Efficiency Mode (Auto)**.

Press ESC key twice to go back to the **BIOS/Platform Configuration (RBSU)** menu

#### 10. **Advanced Options**

- a. Set **Fan and Thermal Options** > **Thermal Configuration** to **Increased Cooling**.

Press ESC key twice to go back to the **BIOS/Platform Configuration (RBSU)** menu

#### 11. Select **Virtualization Options**:

- a. Set **Virtualization Technology** to **Enabled**.
- b. Set **Intel (R) VT-d** to **Enabled**.
- c. Set **SR-IOV** to **Enabled**.

Press ESC key thrice to go back to the **BIOS/Platform Configuration (RBSU)** menu

#### 12. Select **Embedded LOM Port**

- a. Select **Embedded LOM 1 Port 1** to **Port 4** one by one and set the settings as **HPE Ethernet 1Gb 4-port 331i Adapter -NIC** > **MBA Configuration Menu** > **Legacy Boot Protocol** to **Disabled** or **None**.

#### 13. Press **F12** to **Save and Exit**.