



Making a SAN boot LUN the primary boot LUN for HP-UX QLogic HBAs after transition

ONTAP 7-Mode Transition

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If your Data ONTAP operating in 7-Mode HP-UX host was SAN booted, you must make the SAN boot LUN the primary boot LUN after transition to clustered Data ONTAP.

- Your data migration must be complete.
- Your boot LUN must be mapped to your host from your clustered Data ONTAP node.

SAN boot is supported for HP-UX 11.3x on HP 9000 systems using the BCH menu and on HP Integrity servers using the HP-UX Loader (EFI).

For copy-based transitions, perform these steps after completing the Storage Cutover operation in the 7-Mode Transition Tool. Copy-free transitions are not supported on HP-UX hosts.

Steps

1. Open the shell prompt:

Ctrl B

2. Boot to the EFI shell.

The EFI shell is available only on HP Integrity systems.

3. Use a serial console to access the login to the service processor (MP).
4. Access the console list: `CO`

This opens the EFI Boot Manager menu.

5. From the EFI Boot Manager menu, select the EFI shell menu option to access the EFI shell environment.
6. Identify your QLogic driver numbers:

drivers

The driver numbers are located in the DRV column.

7. Identify the corresponding controller number for each driver:

drvcfg driver_number

In the following example, 27 is the corresponding controller number for driver 23 and 26 is the corresponding controller number for driver 24:

```

Shell> drvcfg 23
Configurable Components
      Drv[23]      Ctrl[27]              Lang[eng]

Shell> drvcfg 24
Configurable Components
      Drv[24]      Ctrl[26]              Lang[eng]

```

8. Open the driver BIOS:

```
drvcfg drv_number ctrl_number -s
```

9. Enter **4** to select **4. Edit Boot Settings**.

10. In Edit Boot Settings, enter **6** to select **6. EFI Variable EFIFCScanLevel**.

11. Enter **1** to change the value of EFI Variable EFIFCScanLevel from 0 to 1.

12. Enter **7** to select **7. Enable World Login**.

13. Enter **y** to enable world login.

14. Enter **0** to go to the previous menu.

15. In the Main Menu, enter **11** to save your changes.

16. Enter **12** to quit.

17. In the shell prompt, rescan your devices:

```
reconnect -r
```

18. Display the LUN to obtain the path of the LUN from which you want to boot:

```
map -r
```

The LUN paths are listed under the Device column. The bootable SAN disk are displayed under the mapping table column and have "WWN" and "Part 1" in the output string.

19. Enter the LUN path of your SAN boot LUN.

An example of a LUN path is fs0.

20. Exit the EFI shell:

```
cd efi
```

21. Enter the HPUX directory:

```
cd hpux
```

22. Make the new clustered Data ONTAP SAN boot LUN the primary boot LUN:

```
bcfg boot add 1 hpux.efi "HP-UX-Primary Boot"
```

23. Manually update the HBA BIOS by making an entry in the EFI for the SAN boot LUN.

24. Create an alternate boot path:

```
bcfg boot add 2 hpux.efi "HPUX alternate boot"
```

25. Create a third boot path:

```
bcfg boot add 2 hpux.efi "HPUX third boot"
```

26. Create a fourth boot path:

```
bcfg boot add 2 hpux.efi "HPUX fourth boot"
```

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