

知 How to customize an OS image integrated with a storage controller driver on B5700 G3

Servers 河然·吐尔生别克 2021-06-29 Published

Network Topology

None

Configuration Steps

For successful OS installation, you must use an OS image integrated with a storage controller driver if a storage controller has been installed on the server.

1. First prepare the storage controller driver, original VMware ESXI OS image and ESXI-Customizer-PS in the same directory. (Here we take B5700 G3 for example)

名称	修改日期	类型	大小
ESXi-Customizer-PS-v2.6.0	2020/9/25 18:40	Windows PowerShe...	21 KB
update-from-esxi6.7-6.7_update03	2021/4/13 19:35	WinRAR ZIP 压缩文件	443,946 KB
VMW-ESX-6.7.0-smartpqi-1.0.3.2035-offline_bundle-11554159	2018/12/31 0:55	WinRAR ZIP 压缩文件	86 KB

2. Run VMware PowerCLI and execute the cd command to enter the directory where the driver resides.

```
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI>
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> ls

目录: C:\Users\h23647\Desktop\PAK-ESXI

Mode                LastWriteTime         Length Name
----                -
-a-----          2020/9/25 18:40         21003 ESXi-Customizer-PS-v2.6.0.ps1
-a-----          2021/4/13 19:35      454599717 update-from-esxi6.7-6.7_update03.zip
-a-----          2018/12/31 0:55         87046 VMW-ESX-6.7.0-smartpqi-1.0.3.2035-offline_bundle-11554159.zip

PowerCLI C:\Users\h23647\Desktop\PAK-ESXI>
```

3. Execute the #Add-esxsoftwareDepot -DepotUrl driver_file_name.zip command to load the driver file.

```
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> ls
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> Add-ExSoftwareDepot -DepotUrl .\VMW-ESX-6.7.0-smartpqi-1.0.3.2035-offline_bundle-11554159.zip
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI>
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> Get-ExSoftwarePackage
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> Add-ExSoftwareDepot -DepotUrl .\update-from-esxi6.7-6.7_update03.zip
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI>
```

4. Execute the #Get-ExSoftwarePackage command to obtain the driver name. In this example, the driver name is smartpqi

```
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> ls
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> Add-ExSoftwareDepot -DepotUrl .\VMW-ESX-6.7.0-smartpqi-1.0.3.2035-offline_bundle-11554159.zip
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> Get-ExSoftwarePackage
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> Add-ExSoftwareDepot -DepotUrl .\update-from-esxi6.7-6.7_update03.zip
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI>
```

5. Execute the Add-esxsoftwareDepot -depoturl os_image_file_name.zip command to load the OS image

```
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> ls
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> Add-ExSoftwareDepot -DepotUrl .\VMW-ESX-6.7.0-smartpqi-1.0.3.2035-offline_bundle-11554159.zip
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> Get-ExSoftwarePackage
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI> Add-ExSoftwareDepot -DepotUrl .\update-from-esxi6.7-6.7_update03.zip
PowerCLI C:\Users\h23647\Desktop\PAK-ESXI>
```

6. Execute the #Get-ExImageProfile command to obtain the name of the target configuration file

```
Mode                LastWriteTime         Length Name
----                -
a-----          2020/9/25      18:40             21003 ESXi-Customizer-PS-v2.6.0.ps1
a-----          2021/4/23       19:35      45499911 update-from-esxi6.7-6.7_update03.zip
a-----          2018/12/31        0:55      57046 VMW-ESX-6.7.0-smartpqi-1.0.3.2035-offline_bundle-11554159.zip

PowerCLI C:\Users\bc2647\Desktop\PAK-ESXI> Add-ExsSoftwareDepot -DepotUrl .\VMW-ESX-6.7.0-smartpqi-1.0.3.2035-offline_bundle-11554159.zip
Depot Url
-----
PowerCLI C:\Users\bc2647\Desktop\PAK-ESXI> Get-ExsSoftwarePackage
Name
----
None
PowerCLI C:\Users\bc2647\Desktop\PAK-ESXI> Get-ExsSoftwarePackage
Name                Version          Vendor            Creation Date
----                -
smartpqi            1.0.3.2035-10M 670.0.0.816... MSCC              2018/11/28 9:...

PowerCLI C:\Users\bc2647\Desktop\PAK-ESXI> Add-ExsSoftwareDepot -DepotUrl .\update-from-esxi6.7-6.7_update03.zip
Depot Url
-----
```

Key Configuration

PowerCLI C:\Users\bc2647\Desktop\PAK-ESXI> Get-ExsSoftwarePackage