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Note

Please note that in the ESXi 6.7 version, USB devices larger than 2TB are not supported.

Step One - Enable SSH Access To ESXi Host

Connect to ESXi IP address, go to Actions and then select Services and Enable Secure Shell (SSH).

C Get vCenter Server 1 1 Cre Iocalhost.lan Version: State: Uptime:	ate/Register VM D Shut down Reboot C Refresh 6.7.0 Update 3 (Build 14320388) Normal (not connected to any vCenter Server) 0.25 days	Actions Host Create/Register VM Shut down Reboot Services	Enable Secure Shell (SSH)
* Hardware		Enter maintenance mode	Enable Toggle the secure shell service on this host
Manufacturer	Dell Inc.	Lockdown mode	>
Model	PowerEdge R620	& Permissions	
• 🖬 CPU	12 CPUs x Intel(R) Xeon(R) CPU E5-2620 v2 @ 2.10GHz	Cenerate support bundle	
Memory	63.94 GB		
Persistent Memory	08		
Virtual flash	0 B used, 0 B capacity		
🕶 🧕 Networking			

Step Two – Connect To ESXi Host Using SSH

With your preferred SSH client, mine is Putty, start a connection to the ESXi host.



Step Three – Stop USB Arbitrator

You have to stop USB Arbitrator Service. The service is used to passthrough the USB devices from hosts to a virtual machine. Once stopped, you will not be able anymore to passthrough USB devices to VMs.

/etc/init.d/usbarbitrator stop

To maintain the stopped status of the service after reboot, insert the command:

chkconfig usbarbitrator off

la /dau/diaka

Step Four - Plug In The USB Device To The ESXi Host And Get The Device Identifier

Connect USB device to the ESXi host. Then get the device identifier by issuing the following command in Putty:

🗬 192.168.1.145 - PuTTY	- 0	\times
[root@localhost:~] ls /dev/disks/		~
mpx.vmhba32:C0:T0:L0	vml.000000000766d68626133323a303a30	
mpx.vmhba32:C0:T0:L0:1	vml.000000000766d68626133323a303a30:1	
mpx.vmhba32:C0:T0:L0:5	vml.000000000766d68626133323a303a30:5	
mpx.vmhba32:C0:T0:L0:6	vml.000000000766d68626133323a303a30:6	
mpx.vmhba32:C0:T0:L0:7	vml.000000000766d68626133323a303a30:7	
mpx.vmhba32:C0:T0:L0:8	vml.000000000766d68626133323a303a30:8	
mpx.vmhba32:C0:T0:L0:9	vml.000000000766d68626133323a303a30:9	
mpx.vmhba33:C0:T0:L0	vml.01000000032303139313132363030313839384645787465726e	
[root@localhost:~]		
[root@localhost:~]		\sim

First USB device is the stick which is booting the ESXi software, so the second device is the USB Disk that we'd like to use for the datastore - mpx.vmhba33:C0:T0:L0

Step Five – Write A Label To The Device

Write a gpt label to the USB device using its ID

Step Six - Create Partition

In order to create the partition, we need to have a few info:

1. The start sector: 2048

2. The GUID for VMFS: AA31E02A400F11DB9590000C2911D1B8

3. The end sector. This one should be calculated.

To calculate the end sector, we'll issue the following command first:



[root@localhost:~]
[root@localhost:~] vmkfstools -C vmfs6 -S USB-Storage /dev/disks/mpx.vmhba33:C0:T0:L0:1
create fs deviceName:'/dev/disks/mpx.vmhba33:C0:T0:L0:1', fsShortName:'vmfs6', fsName:'USB-Storage'
deviceFullPath:/dev/disks/mpx.vmhba33:C0:T0:L0:1 deviceFile:mpx.vmhba33:C0:T0:L0:1
ATS on device /dev/disks/mpx.vmhba33:C0:T0:L0:1: not supported
.
Checking if remote hosts are using this device as a valid file system. This may take a few seconds...
Scanning for VMFS-6 host activity (4096 bytes/HB, 1024 HBs).
Creating vmfs6 file system on "mpx.vmhba33:C0:T0:L0:1" with blockSize 1048576, unmapGranularity 1048576
unmapPriority default and volume label "USB-Storage".
Successfully created new volume: 5ea5f7f1-c764f9dc-35b5-c8lf66f821cd
[root@localhost:~]

Step Eight – Check Datastore In ESXi

Return to ESXi and check the Storage tab. You should see here the new Datastore.

vmware' Esxi	LITY AND	
To Navigator	USB-Storage	
G Host Manage Manage Monitor Storage USB-Storage Monor More storage	Register a VM Receiver a VM Re	t Krowser 2] Increase capacity C Reflectin C Actions VWIS6 Mith/AdamseSfects 143.dectaedd-dtoc.d1160/80027 Seeta 143-dectaedd-dtoc.d1160/80027 1
• Q Networking	+ VMFS details	
	Version	6.82
	Local	Yes
	Block size	1MB
	UUID	5ea5a143-0ecbabc6-d2cc-c61156fb0d27
	Extent 0	mpx ymbba34:C0/T01.0 partition 1

We have managed to add the USB-Disk as VMFS Datstore and we can now deploy VMs on it. I will proceed with the installation of vCenter Appliance.

Source

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