

Create a New Vm



Summary

1. Create a New Vm with Web Interface
2. Create a New Vm in Powershell

1. Create a New Vm with Web Interface

For create a New VM we need to connect on the web Interface.

On the browser, fill in the server address

`http:// <@IP> /`

Then we arrive on the homepage. Here we can see the resources consumed, configuration, components, logs etc ...

The screenshot displays the VMware ESXi web interface for a host named `localhost.localdomain`. The interface includes a left-hand navigation pane with options like Host, Virtual Machines, Storage, and Networking. The main content area shows various system metrics and configuration details.

Host Information:

- Version: 6.5.0 (Build 4887370)
- State: Normal (not connected to any vCenter Server)
- Uptime: 0 days

Resource Usage:

- CPU:** FREE: 13.1 GHz (3%), USED: 447 MHz, CAPACITY: 13.8 GHz
- MEMORY:** FREE: 14.4 GB (10%), USED: 1.51 GB, CAPACITY: 15.91 GB
- STORAGE:** FREE: 923.05 GB (0%), USED: 978 MB, CAPACITY: 924 GB

Hardware Configuration:

Component	Value
Manufacturer	To Be Filled By O.E.M.
Model	To Be Filled By O.E.M.
CPU	4 CPUs x Intel(R) Core(TM) i7-2600K CPU @ 3.40GHz
Memory	15.91 GB
Virtual flash	0 B used, 0 B capacity
Networking	
Hostname	localhost.localdomain
IP addresses	1. vmk0: 192.168.20.12
DNS servers	1. 8.8.8.8
Default gateway	192.168.20.1
IPv6 enabled	No
Host adapters	1
Networks	

Configuration:

- Image profile: ESXi-6.5.0-20170104001-standard (VMware, Inc.)
- vSphere HA state: Not configured
- vMotion: Supported

System Information:

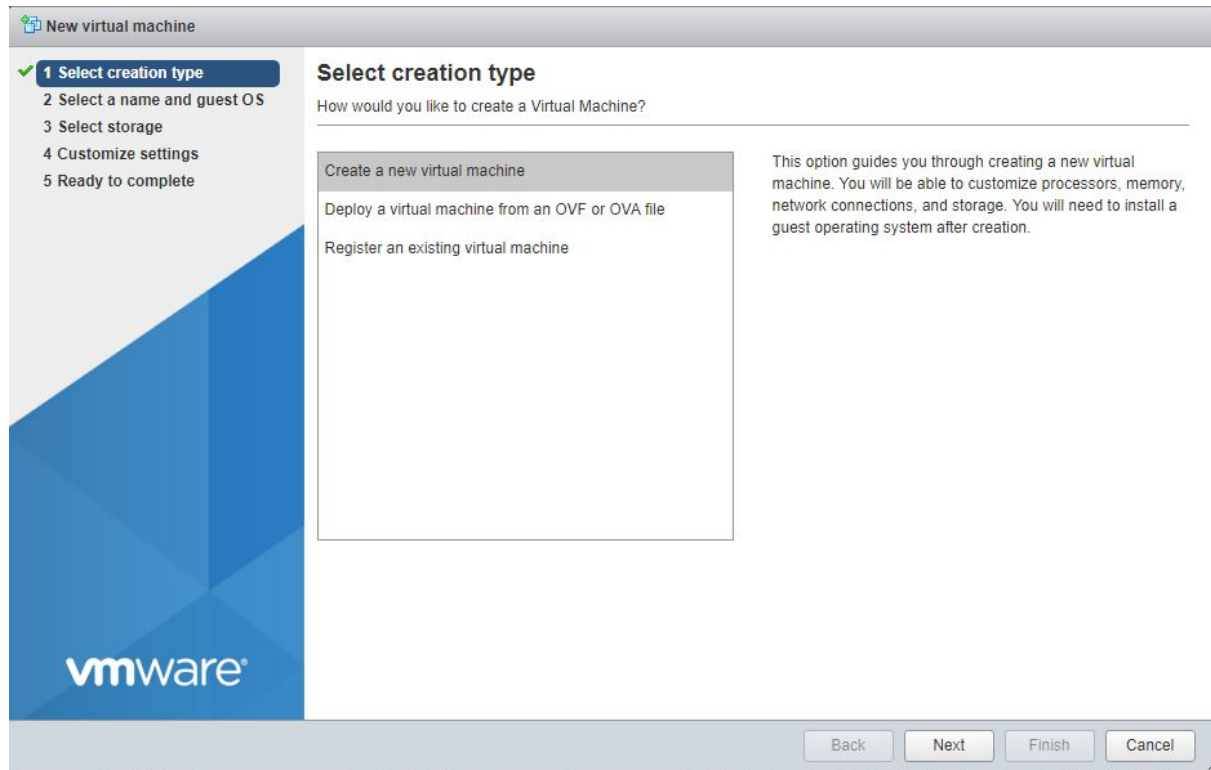
- Date/time on host: Wednesday, January 31, 2018, 08:59:12 UTC
- Install date: Wednesday, January 31, 2018, 08:32:55 UTC
- Asset tag: Unknown
- Service tag: Unknown
- BIOS version: P1.00
- BIOS release date: Friday, July 08, 2011, 02:00:00 +0200

Recent tasks:

Task	Target	Initiator	Queued	Started	Result	Completed
Update Options	localhost.localdomain	root	01/31/2018 09:58:21	01/31/2018 09:58:21	Completed successfully	01/31/2018 09:58:21
Refresh Network System	localhost.localdomain	dcui	01/31/2018 09:55:17	01/31/2018 09:55:17	Completed successfully	01/31/2018 09:55:17
Auto Start Power On	localhost.localdomain	root	01/31/2018 09:55:16	01/31/2018 09:55:16	Completed successfully	01/31/2018 09:55:16

Click on the second onglet, it name is " Create/Register VM"

Choose "Create a new virtual machine"



Choose the name , the compatibility with other version of Vsphere, OS Family and OS Version.

The screenshot shows the 'New virtual machine' wizard in VMware Workstation. The left sidebar contains a progress list with five steps: 1. Select creation type (checked), 2. Select a name and guest OS (highlighted), 3. Select storage, 4. Customize settings, and 5. Ready to complete. The main area is titled 'Select a name and guest OS' and includes the instruction 'Specify a unique name and OS'. Below this is a 'Name' text box with the placeholder 'Enter a name for the virtual machine.' and a note stating that names can be up to 80 characters and must be unique. Further down, there are three dropdown menus: 'Compatibility' set to 'ESXi 6.5 virtual machine', 'Guest OS family' set to 'Windows', and 'Guest OS version' set to 'Microsoft Windows 10 (64-bit)'. The VMware logo is in the bottom left, and 'Back', 'Next', 'Finish', and 'Cancel' buttons are in the bottom right.

New virtual machine

1 Select creation type
2 Select a name and guest OS
3 Select storage
4 Customize settings
5 Ready to complete

Select a name and guest OS

Specify a unique name and OS

Name

Enter a name for the virtual machine.

Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instance.

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Compatibility ESXi 6.5 virtual machine

Guest OS family Windows

Guest OS version Microsoft Windows 10 (64-bit)

vmware

Back Next Finish Cancel

Then choose the storage for the VM

The screenshot shows the 'Select storage' step of the 'New virtual machine - Test (ESXi 6.5 virtual machine)' wizard. On the left, a progress bar indicates the steps: 1. Select creation type, 2. Select a name and guest OS, 3. Select storage (highlighted), 4. Customize settings, and 5. Ready to complete. The main area is titled 'Select storage' and contains the instruction: 'Select the datastore in which to store the configuration and disk files.' Below this, a message states: 'The following datastores are accessible from the destination resource that you selected. Select the destination datastore for the virtual machine configuration files and all of the virtual disks.' A table lists the available datastores:

Name	Capacity	Free	Type	Thin pro...	Access
datastore1	924 GB	923.05 GB	VMFS5	Supported	Single

At the bottom right of the table, it says '1 items'. At the bottom of the wizard, there are buttons for 'Back', 'Next', 'Finish', and 'Cancel'.

After, Choose your setting for the VM

The screenshot shows the 'Customize settings' step of the 'New virtual machine - Test (ESXi 6.5 virtual machine)' wizard. On the left, the progress bar shows steps 1 through 4: 1. Select creation type, 2. Select a name and guest OS, 3. Select storage, and 4. Customize settings (highlighted). The main area is titled 'Customize settings' and contains the instruction: 'Configure the virtual machine hardware and virtual machine additional options.' Below this, a table lists various settings:

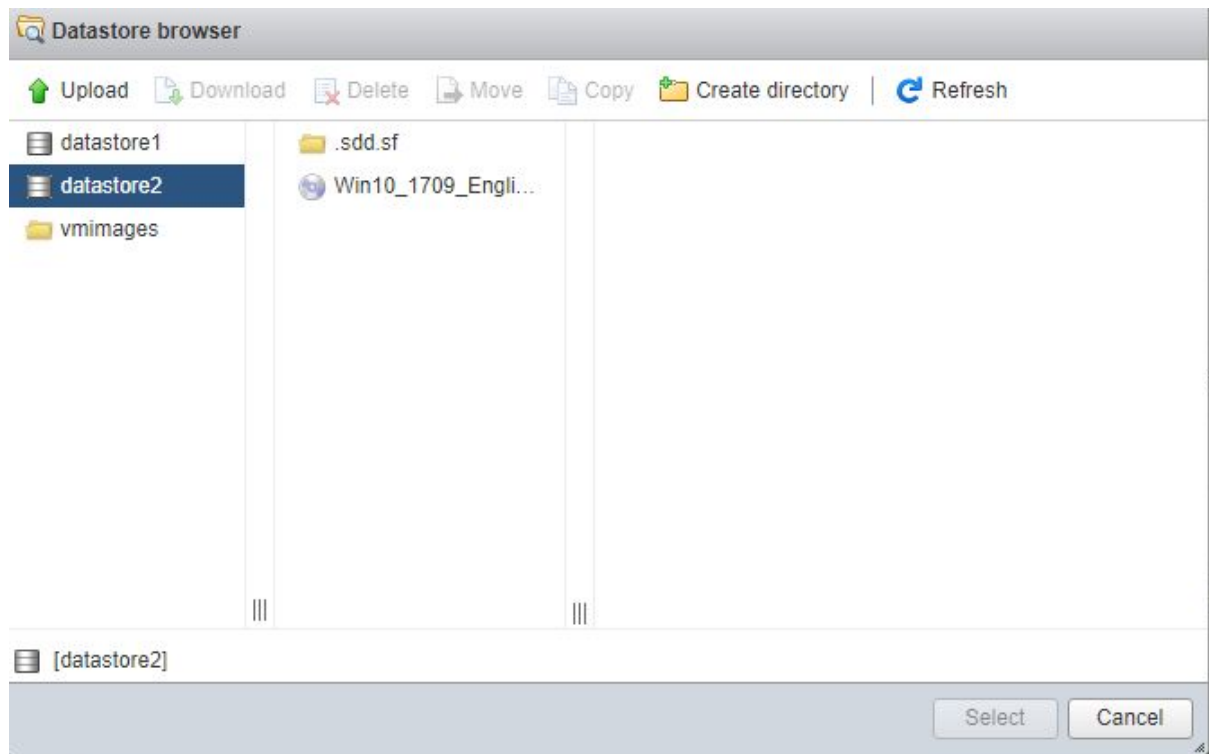
Cores per Socket	1	Sockets: 1
CPU Hot Plug	☐ Enable CPU Hot Add	
Reservation		MHz
Limit	Unlimited	MHz
Shares	Normal	1000
Hardware virtualization	☐ Expose hardware assisted virtualization to the guest OS	
Performance counters	☐ Enable virtualized CPU performance counters	
Scheduling Affinity	Hyperthreading Status: Active Available CPUs: 8 (Logical CPUs) 0, 2, 4-7	
CPU/MMU Virtualization	Automatic	

At the bottom of the wizard, there are buttons for 'Back', 'Next', 'Finish', and 'Cancel'.

Do not forget to add a CD drive (Other device -> CD / DVD drive)
and add the location of the iso image

▶ Hard disk 1	32	GB	✕
▶ SCSI Controller 0	LSI Logic SAS		
SATA SATA Controller 0			
USB controller 1	USB 2.0		
▶ Network Adapter 1	VM Network	☒ Connect	✕
▼ New CD/DVD Drive	Datastore ISO file		
Status	☒ Connect at power on		
CD/DVD Media		Browse...	
Virtual Device Node	SATA controller 0	SATA (0:0)	
▶ Video Card	Specify custom settings		

Click on the Browse button for locate the ISO, I your ISO isn't on the Server, you must upload it



And for the end you have the recap of the config

The screenshot shows the 'New virtual machine - Test (ESXi 6.5 virtual machine)' wizard. On the left, a progress bar indicates five steps: 1. Select creation type, 2. Select a name and guest OS, 3. Select storage, 4. Customize settings, and 5. Ready to complete. The main area is titled 'Ready to complete' and contains a table of settings to be reviewed.

Setting	Value
Provisioning type	new
Name	Test
Datastore	datastore1
Guest OS name	Microsoft Windows 10 (64-bit)
Compatibility	ESXi 6.5 virtual machine
vCPUs	1
Memory	4096 MB
Network adapters	1
Network adapter 1 network	VM Network
Network adapter 1 type	E1000e
IDE controller 0	IDE 0
IDE controller 1	IDE 1
SCSI controller 0	LSI Logic SAS
SATA controller 0	New SATA controller
Hard disk 1	
Capacity	32GB

At the bottom right, there are four buttons: 'Back', 'Next', 'Finish', and 'Cancel'.

To see his VM you have to go in the category Virtual Machines

The screenshot shows the VMware Workstation interface. On the left, the 'Monitor' sidebar has 'Virtual Machines' selected, showing a count of 3. The main area displays a table of virtual machines.

☐	Virtual machine	Status	Used space	Guest OS	Host name	Host CPU	Host memory
☒	test	✓ Nor...	10.75 GB	Microsoft Windows 10 (64-bit)	Unknown	0 MHz	0 MB
☐	ubuntu 64	✓ Nor...	6.04 GB	Ubuntu Linux (64-bit)	Unknown	0 MHz	0 MB
☐	testr	✓ Nor...	Unknown	Microsoft Windows Server 2016 (64-bit)	Unknown	0 MHz	0 MB

2. Create a New Vm in Powershell

For create a VM with command line we need Powershell terminal.

I used PowerCLI.

[link for download](#)

Write this for connect to server

```
PowerCLI C:\> Connect-VIServer -Server 192.168.20.12 -Protocol https
```

Write this with good information for create the VM.

```
VMware PowerCLI 6.5 Release 1 build 4624819
PowerCLI C:\> New-VM -Name <name> `
>> -DiskGB <Size in GB> `
>> -DiskStorageFormat Thin `
>> -MemoryGB < Size in GB> `
>> -CD <for the iso location>`
>> -GuestId '<id of OS>' `
>> -NetworkName:"VM Network" `
>> -Datastore ("< Hdd for Storage>")
```

You can create multi VM with just a simple loop.

The result with the powershell :

Name	PowerState	Num CPUs	MemoryGB
-----	-----	-----	-----
VM_POWER00128	PoweredOff	1	2.000
VM_POWER00129	PoweredOff	1	2.000
VM_POWER00130	PoweredOff	1	2.000
VM_POWER00131	PoweredOff	1	2.000
VM_POWER00132	PoweredOff	1	2.000
VM_POWER00133	PoweredOff	1	2.000
VM_POWER00134	PoweredOff	1	2.000
VM_POWER00135	PoweredOff	1	2.000
VM_POWER00136	PoweredOff	1	2.000
VM_POWER00137	PoweredOff	1	2.000
VM_POWER00138	PoweredOff	1	2.000

And the result with the web interface :

Create / Register VM Console Used space Power off Suspend Refresh Actions								
Search								
☐	Virtual machine	Status	Used sp...	Guest OS	Host name	Host CPU	Host memory	Autostart order
☐	Render	✓ Nor...	19.19 GB	Microsoft Windows 10 (64-bit)	DESKTOP-...	91 MHz	8.05 GB	1
☐	ubuntu 64	✓ Nor...	8.15 GB	Ubuntu Linux (64-bit)	ServerUbuntu	21 MHz	1.28 GB	2
☐	VM_POWER00128	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
☐	VM_POWER00129	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
☐	VM_POWER00130	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
☐	VM_POWER00131	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
☐	VM_POWER00132	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
☐	VM_POWER00133	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
☐	VM_POWER00134	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
☐	VM_POWER00135	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
☐	VM_POWER00136	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
☐	VM_POWER00137	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
☐	VM_POWER00138	✓ Nor...	1.31 KB	Microsoft Windows 8 (32-bit)	Unknown	0 MHz	0 MB	Unset
13 items								