

Ticket #1 Deploy a new CentOS 9 vm on vsphere

Friday, September 12, 2025 6:45 PM

[TASK] The Infrastructure Team is requesting a new CentOS 9 Virtual Machine (VM) to launch a new product for the software development team. Please use the naming convention in the requirements section below. Ensure VM details are added to the asset tiger inventory tool.

This screen shows the VMware vSphere wizard used to create a new virtual machine, with options for creating, deploying, or cloning virtual machines.

New Virtual Machine

Select a creation type

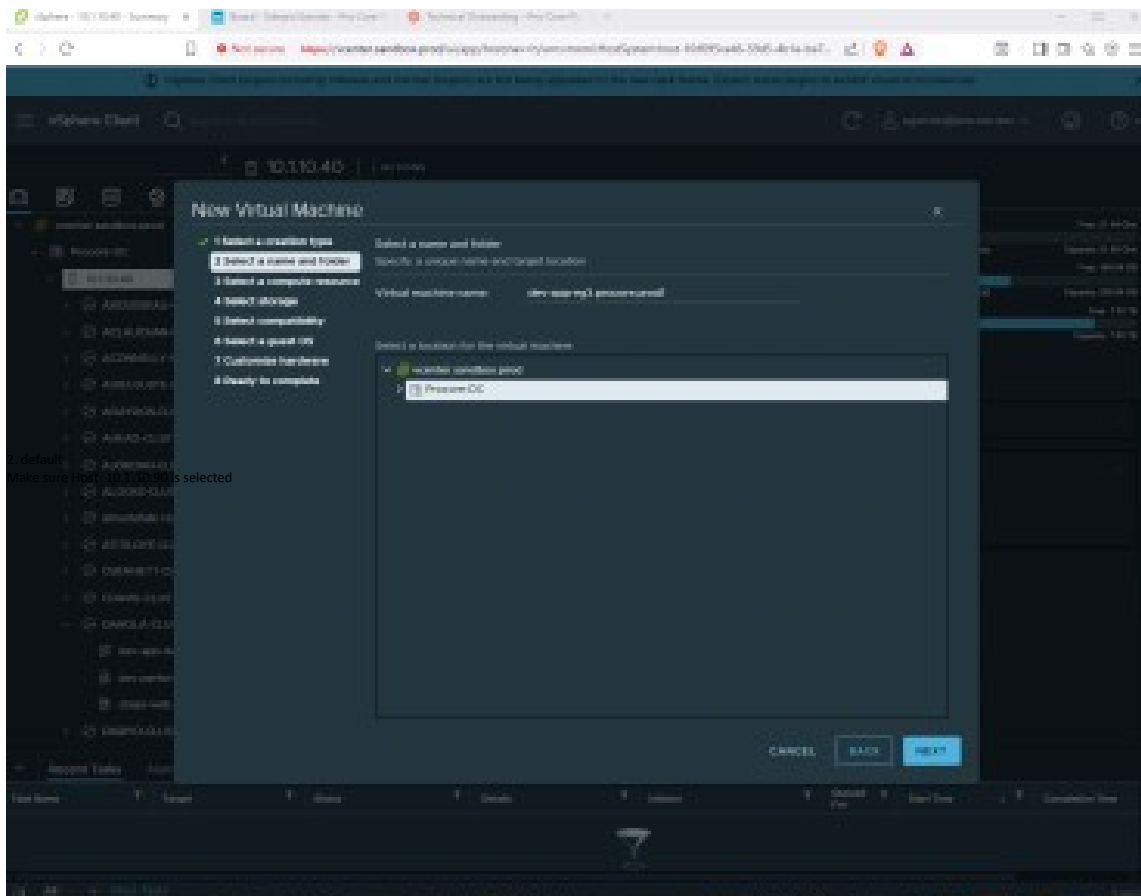
How would you like to create a virtual machine?

- Create a new virtual machine
- Deploy from template
- Clone an existing virtual machine
- Clone virtual machine to template
- Clone template to template
- Convert template to virtual machine

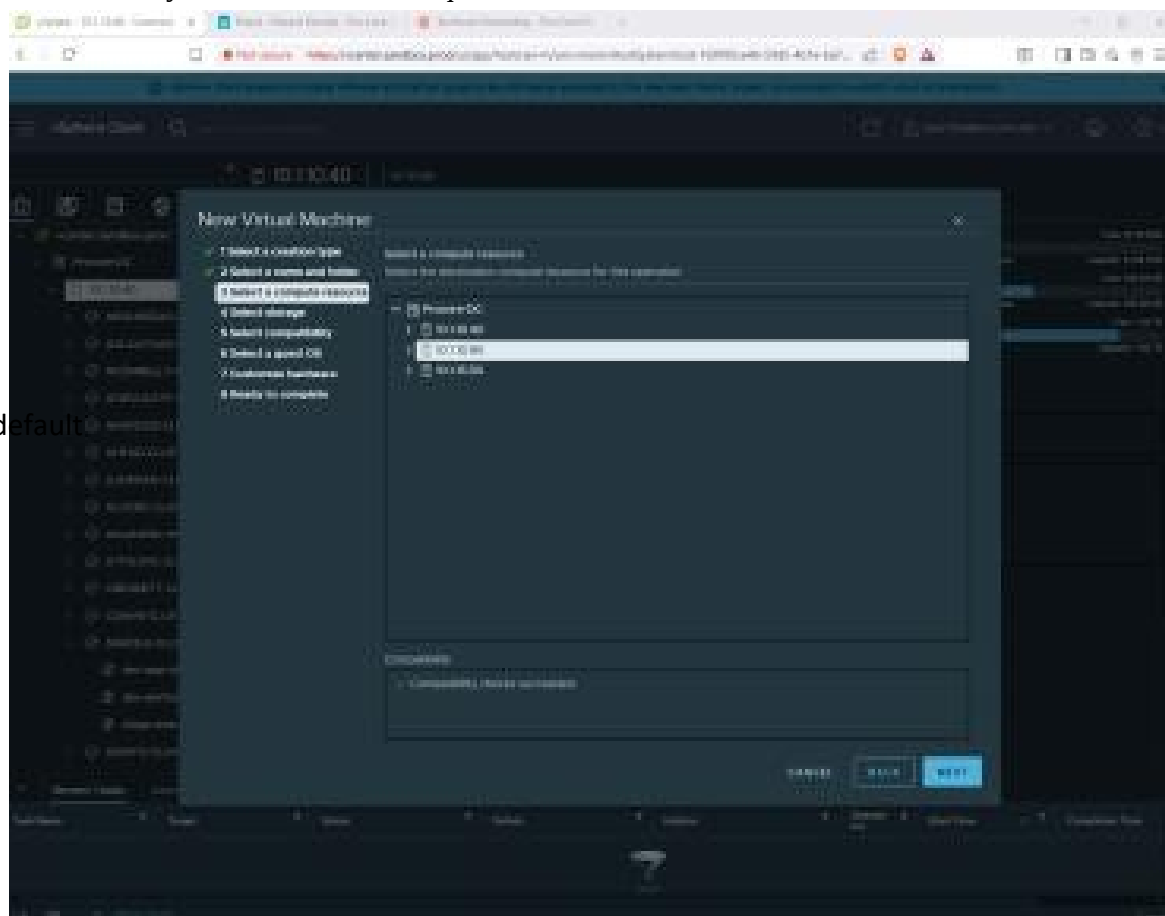
This option guides you through creating a new virtual machine. You will be able to customize processors, memory, network connections, and storage. You will need to install a guest operating system after creation.

CANCEL BACK NEXT

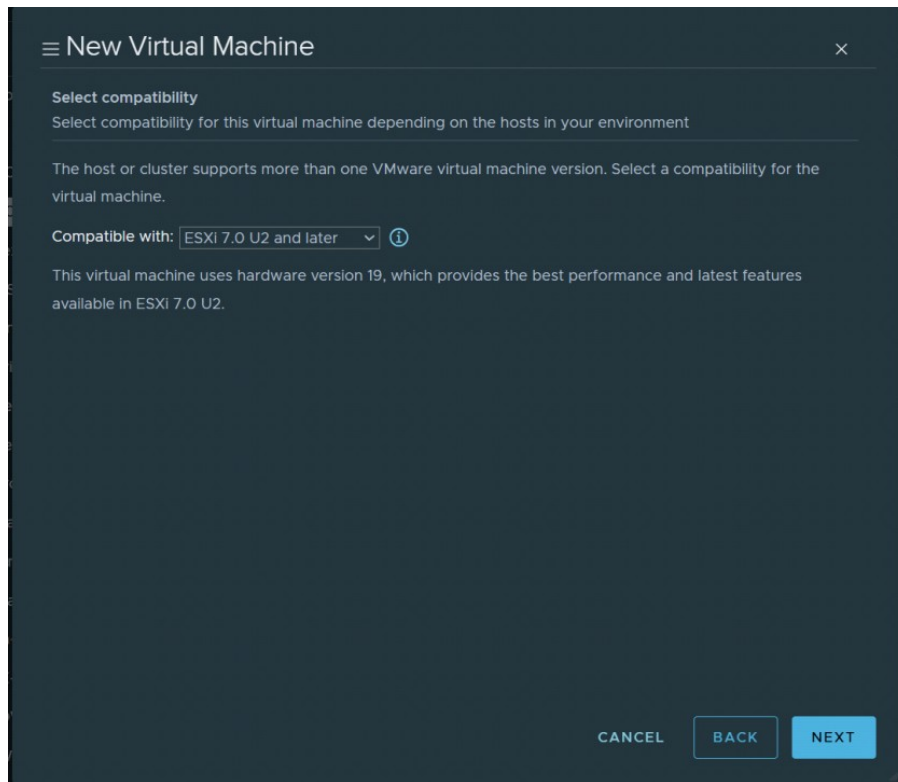
Selected the appropriate datacenter and verified that the correct environment was targeted for the virtual machine deployment.



Chose the appropriate compute resource to host the new virtual machine based on availability and environment requirements.



This screen configures the VM compatibility level. ESXi 7.0 U2 and later is selected to match the host environment and enable the latest supported hardware features.



The screenshot shows the 'New Virtual Machine' wizard in a dark-themed interface. The title bar at the top says 'New Virtual Machine' with a close button. The main section is titled 'Select compatibility' with a subtitle 'Select compatibility for this virtual machine depending on the hosts in your environment'. Below this, a paragraph explains that the host supports multiple VMware versions and a compatibility must be chosen. A dropdown menu labeled 'Compatible with:' is set to 'ESXi 7.0 U2 and later' and includes an information icon. A note below states that this uses hardware version 19 for best performance. At the bottom right are 'CANCEL', 'BACK', and 'NEXT' buttons.

≡ New Virtual Machine

Select compatibility
Select compatibility for this virtual machine depending on the hosts in your environment

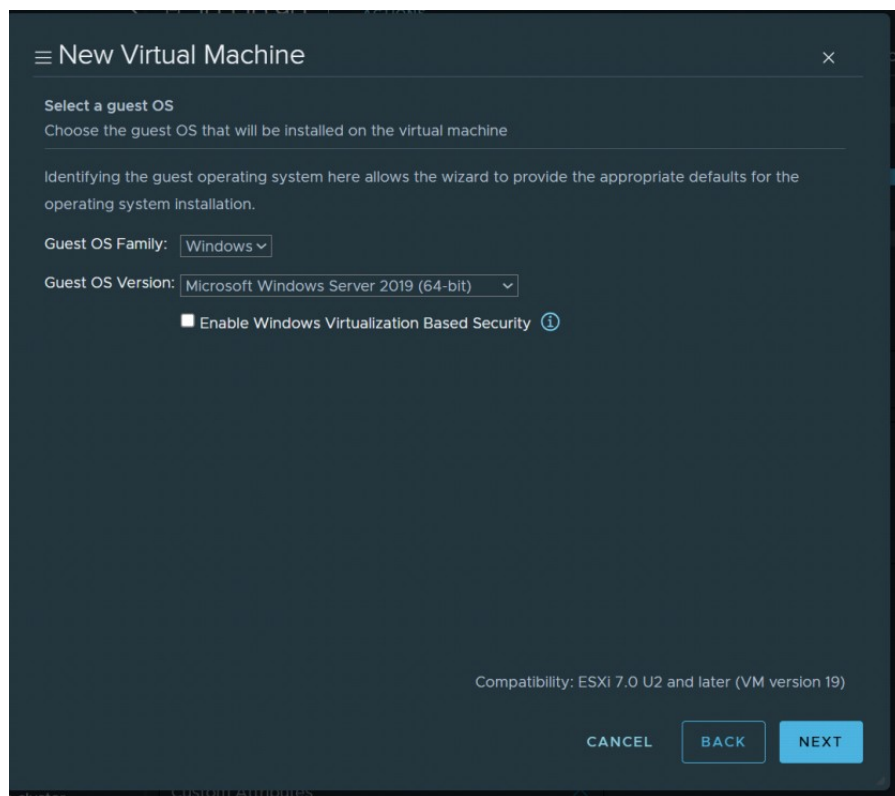
The host or cluster supports more than one VMware virtual machine version. Select a compatibility for the virtual machine.

Compatible with: ESXi 7.0 U2 and later ⓘ

This virtual machine uses hardware version 19, which provides the best performance and latest features available in ESXi 7.0 U2.

CANCEL BACK NEXT

The guest OS is set to Windows Server 2019 (64-bit), allowing the wizard to apply the appropriate default configuration.



The screenshot shows the 'New Virtual Machine' wizard at the 'Select a guest OS' step. The title bar is the same. The section title is 'Select a guest OS' with the subtitle 'Choose the guest OS that will be installed on the virtual machine'. A paragraph explains that identifying the OS allows for appropriate defaults. Two dropdown menus are shown: 'Guest OS Family' set to 'Windows' and 'Guest OS Version' set to 'Microsoft Windows Server 2019 (64-bit)'. Below these is a checkbox for 'Enable Windows Virtualization Based Security' which is currently unchecked, with an information icon. At the bottom right are 'CANCEL', 'BACK', and 'NEXT' buttons. A status line at the bottom indicates 'Compatibility: ESXi 7.0 U2 and later (VM version 19)'.

≡ New Virtual Machine

Select a guest OS
Choose the guest OS that will be installed on the virtual machine

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

Guest OS Family: Windows ▾

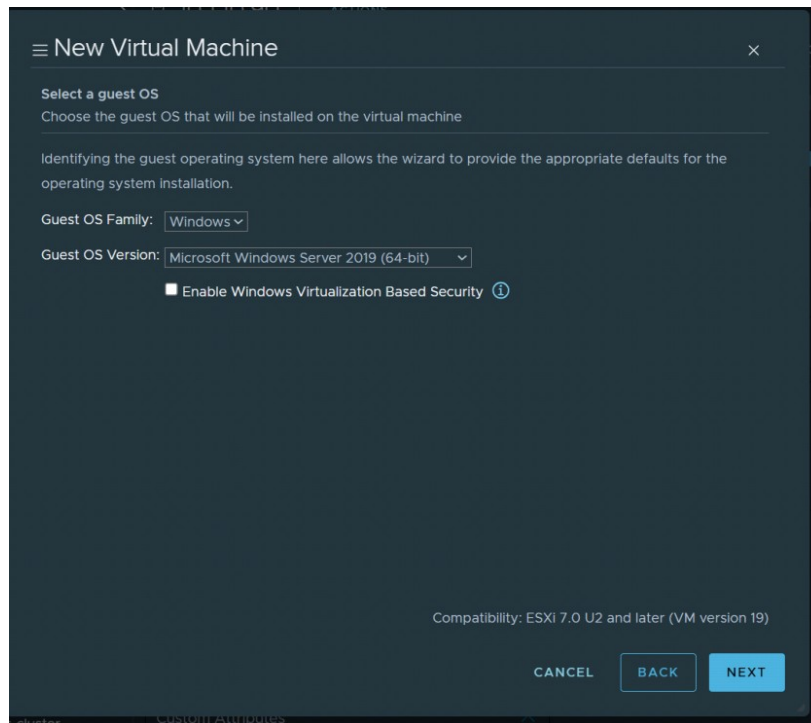
Guest OS Version: Microsoft Windows Server 2019 (64-bit) ▾

☐ Enable Windows Virtualization Based Security ⓘ

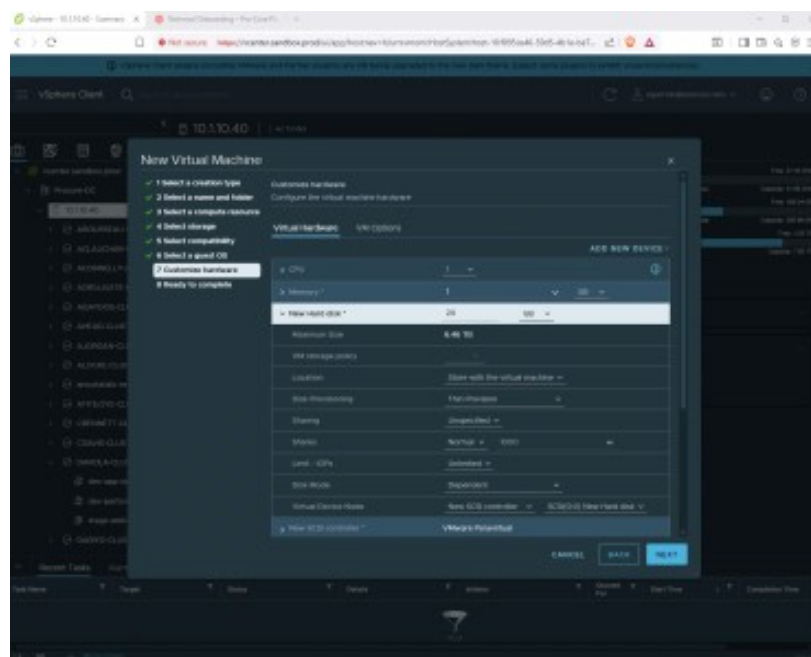
Compatibility: ESXi 7.0 U2 and later (VM version 19)

CANCEL BACK NEXT

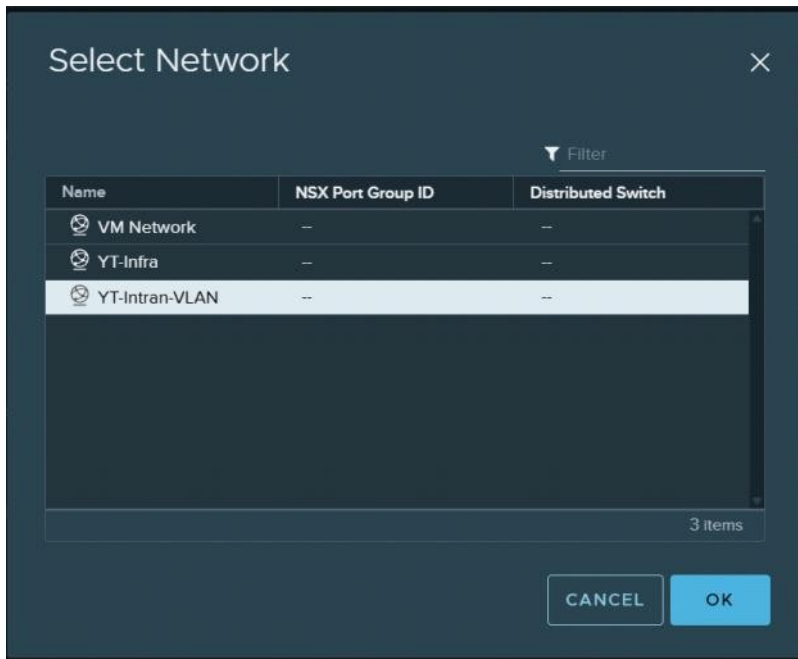
Create a new virtual machine is selected to deploy a custom VM configuration.



CPU, memory, and other hardware settings are customized to meet the virtual machine requirements.



The appropriate port group is selected to ensure proper network access for the virtual machine.



A datastore ISO file is selected for the VM installation media

New Virtual Machine

Shares

Normal

1000

Limit - IOPs

Unlimited

Disk Mode

Dependent

Virtual Device Node

New SCSI controller

SCSI(0:0) New Hard disk

> New SCSI controller *

LSI Logic SAS

> New Network *

YT-Intran-VLAN

☒ Connect...

< New CD/DVD Drive *

Datastore ISO File

Client Device

Datastore ISO File

Content Library ISO File

Status

CD/DVD Media

BROWSE...

Device Mode

Passthrough CD-ROM

Virtual Device Node

New SATA Controller

SATA(0:0) New CD/DVD Drive

> New USB Controller

USB 3.1

> Video card *

Specify custom settings

> Security Devices

Not Configured

CANCEL

BACK

NEXT

The CD/DVD drive is set to connect at power on and configured to use a datastore ISO for installation.

New Virtual Machine

Shares

Normal

1000

Limit - IOPs

Unlimited

Disk Mode

Dependent

Virtual Device Node

New SCSI controller

SCSI(0:0) New Hard disk

> New SCSI controller *

LSI Logic SAS

> New Network *

YT-Intran-VLAN

☒ Connect...

< New CD/DVD Drive *

Datastore ISO File

Status

☒ Connect At Power On

CD/DVD Media

BROWSE...

Device Mode

Passthrough CD-ROM

Virtual Device Node

New SATA Controller

SATA(0:0) New CD/DVD Drive

> New USB Controller

USB 3.1

> Video card *

Specify custom settings

> Security Devices

Not Configured

CANCEL

BACK

NEXT

Installation Media Configuration

The CD/DVD drive is configured to use a datastore ISO file and set to connect at power on for OS installation.

The screenshot shows the 'New Virtual Machine' configuration window. The 'New CD/DVD Drive' section is highlighted, showing the following settings:

- Shares: Normal, 1000
- Limit - IOPs: Unlimited
- Disk Mode: Dependent
- Virtual Device Node: New SCSI controller, SCSI(0:0) New Hard disk
- New SCSI controller *: LSI Logic SAS
- New Network *: YT-Intran-VLAN, Connect... (checked)
- New CD/DVD Drive *: Datastore ISO File (selected)
- Status: Connect At Power On (checked)
- CD/DVD Media: BROWSE... (button)
- Device Mode: Passthrough CD-ROM
- Virtual Device Node: New SATA Controller, SATA(0:0) New CD/DVD Drive
- New USB Controller: USB 3.1
- Video card *: Specify custom settings
- Security Devices: Not Configured

Buttons at the bottom: CANCEL, BACK, NEXT.

The CentOS Stream 9 ISO is selected from the datastore to be used as the installation media for the virtual machine.

The screenshot shows the 'Select File' dialog box. The 'Datastores' list on the left includes 'ISO Images'. The 'Contents' list shows the selected file 'CentOS-Stream-9-latest-x86_64-dvd1.iso'. The 'Information' panel on the right displays the file details:

Information
Name: CentOS-Stream-9-latest-x86_64-dvd1.iso
Size: 11.94 GB
Modified: 01/02/2020, 9:43:27 PM
Encrypted: No

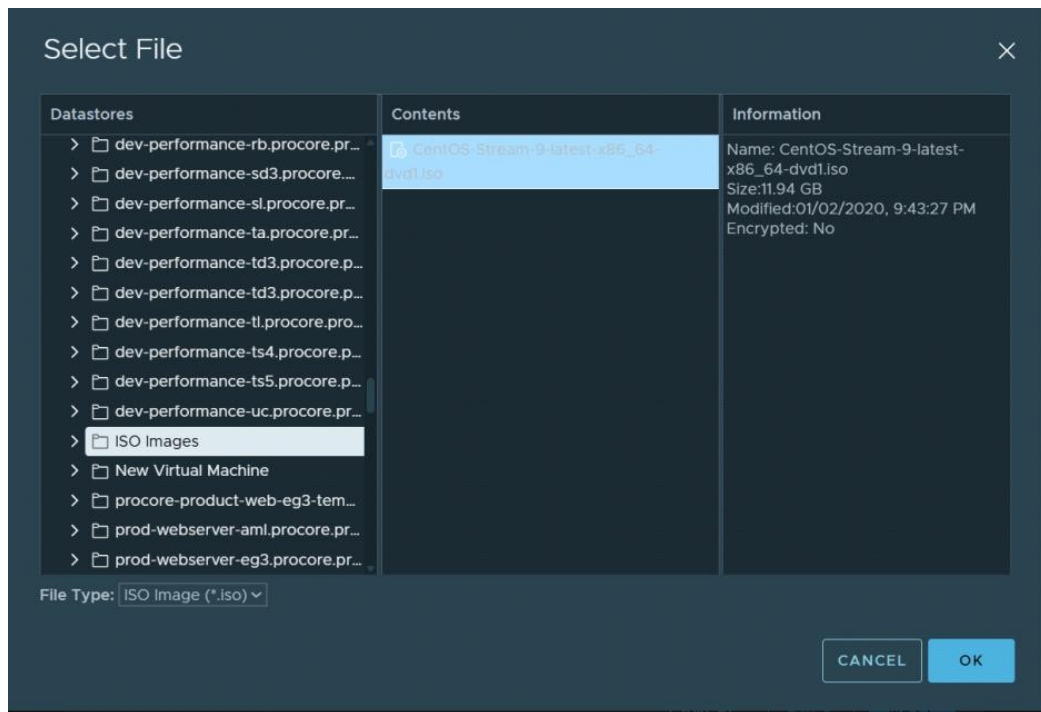
File Type: ISO Image (*.iso) (selected)

Buttons at the bottom: CANCEL, OK.

ISO Image Selection

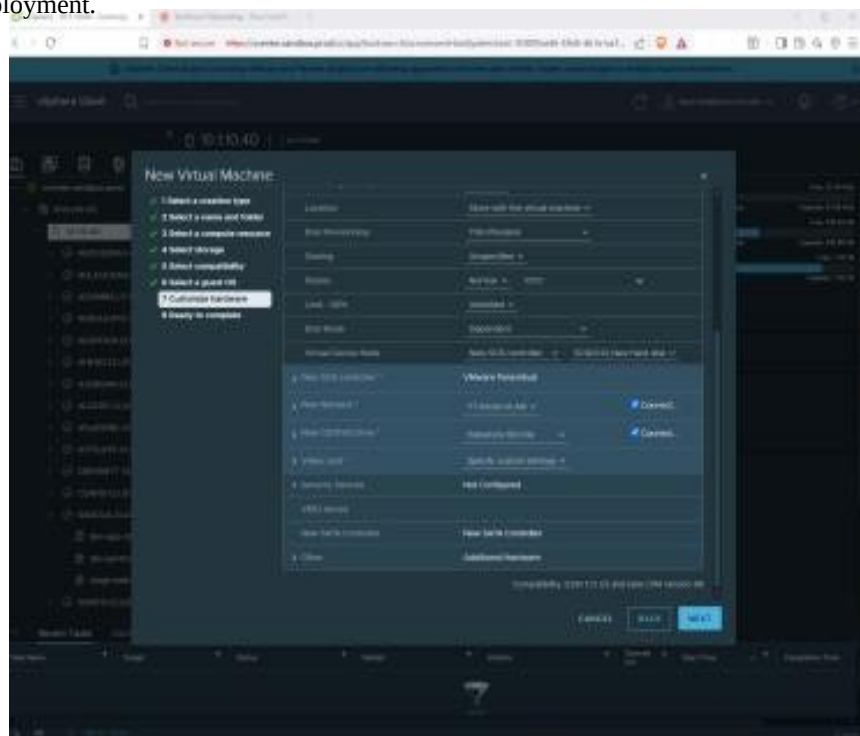
The CentOS Stream 9 ISO is selected from the datastore to serve as the installation media for the virtual machine.

9. As



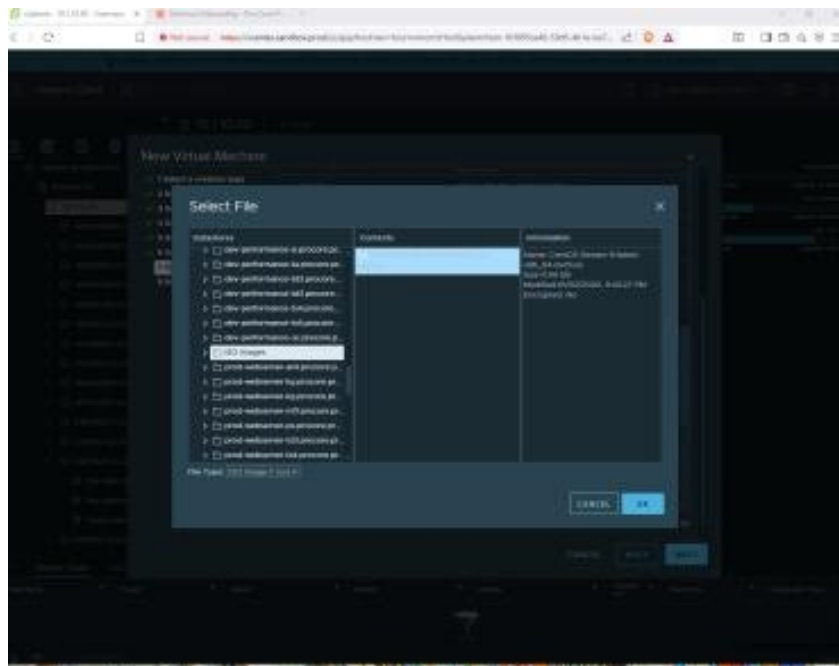
Review and Complete Configuration

The virtual machine configuration is reviewed and confirmed before completing the deployment.



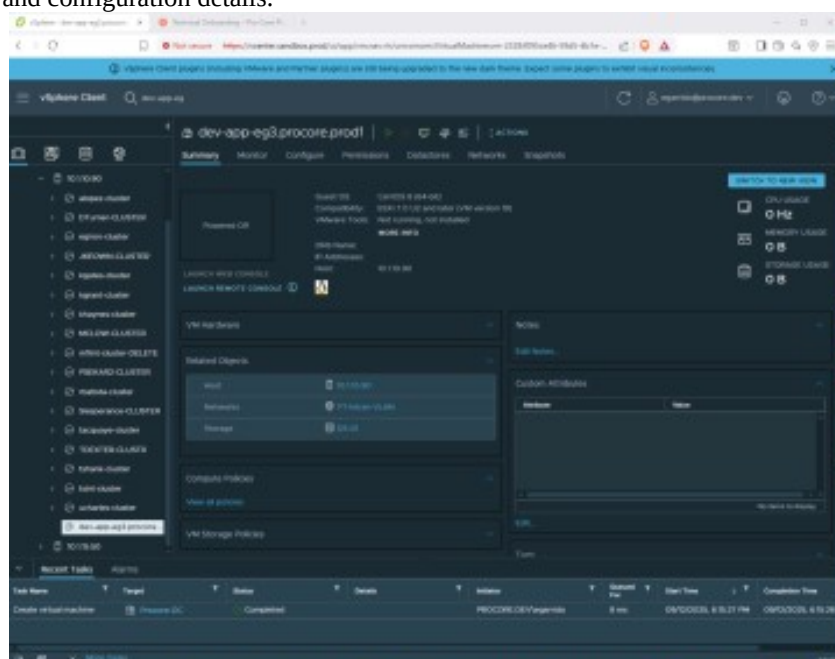
ISO File Selection

The installation ISO is selected from the datastore to be used for the virtual machine deployment.



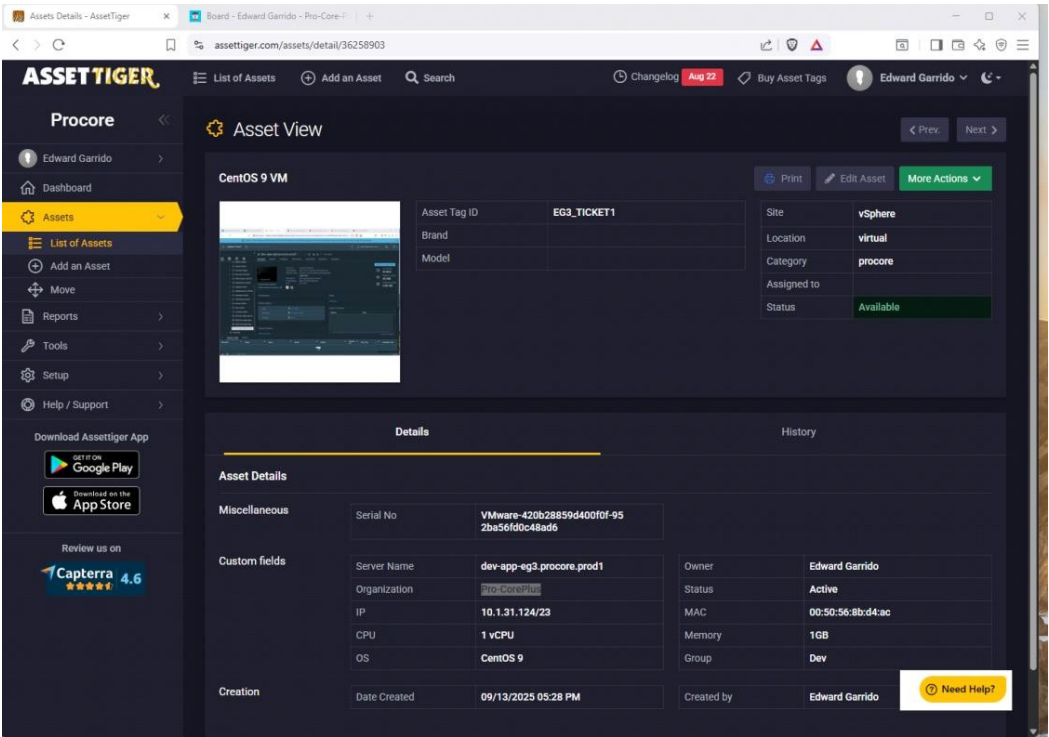
Virtual Machine Summary

The newly created virtual machine is displayed in vSphere, showing its status and configuration details.



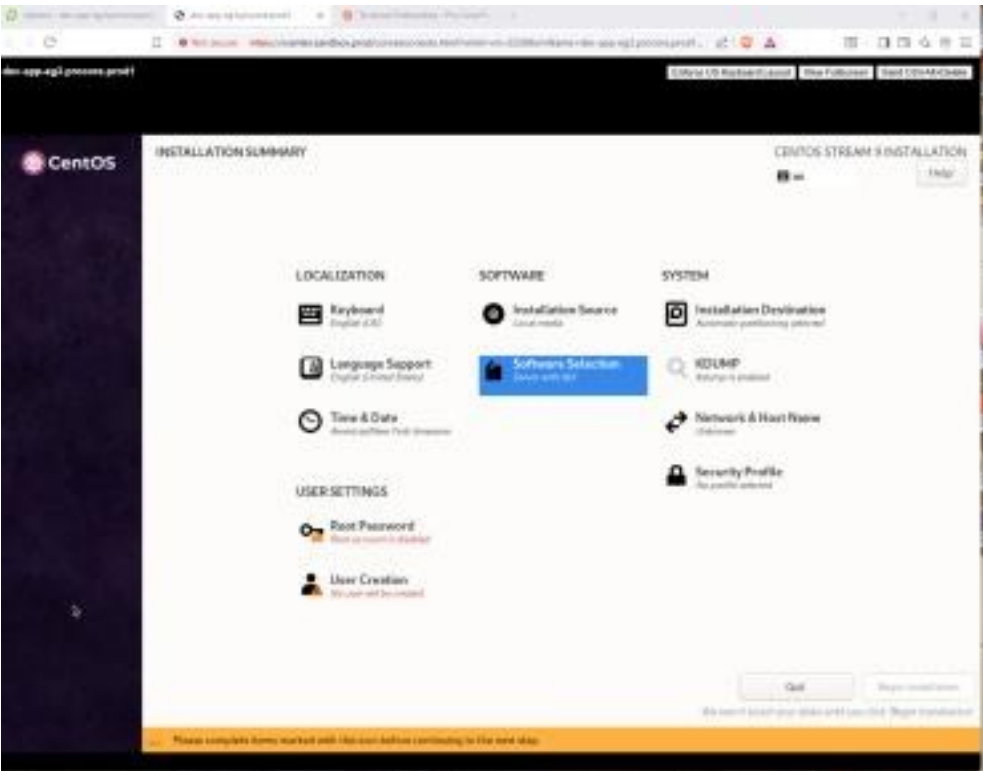
Asset Inventory Registration

The newly created CentOS 9 virtual machine is documented in AssetTiger with asset details, ownership, and status information.



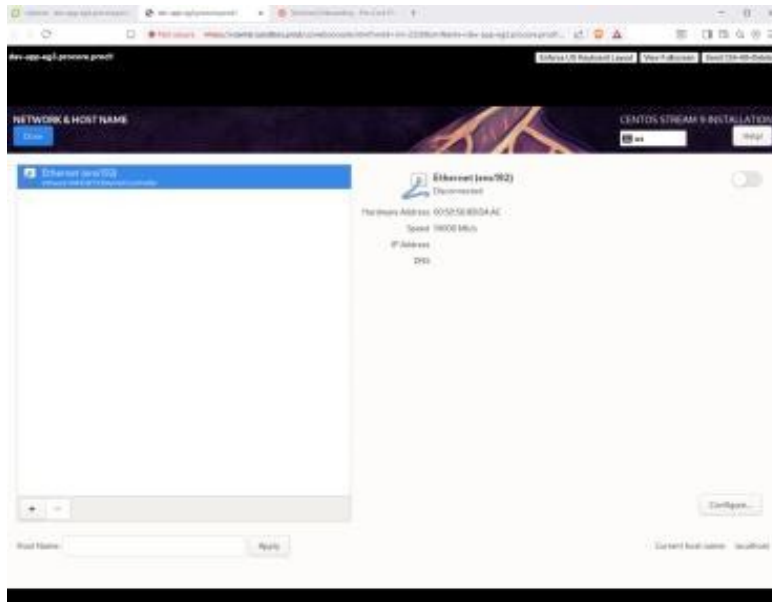
Installation Summary Review

The CentOS installation summary is reviewed to confirm localization, software selection, system settings, and user configuration before beginning installation.



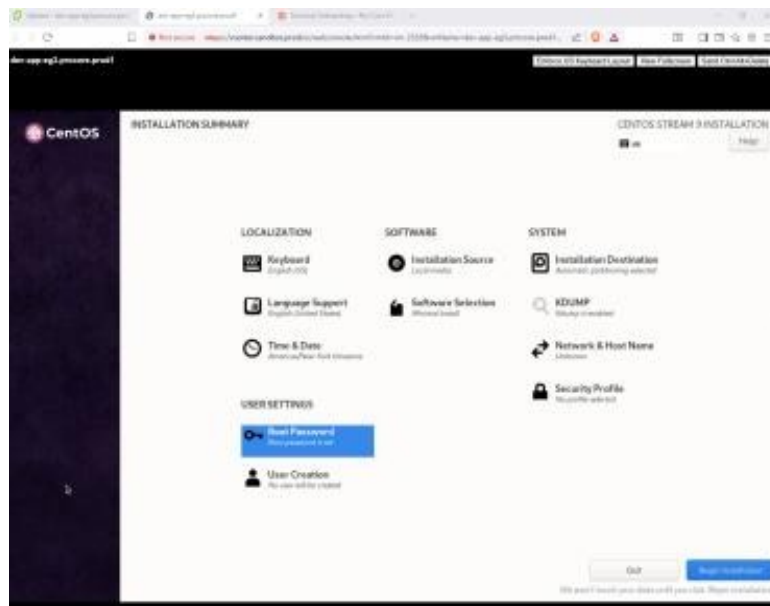
Network and Hostname Configuration

The network interface is configured and the system hostname is set during the CentOS installation process.



Installation Summary Configuration

The CentOS installation summary confirms system, software, localization, and user settings before starting the installation.



These screenshots demonstrate the full lifecycle of deploying a CentOS 9 virtual machine in VMware vSphere, from initial configuration and OS installation to verification and asset inventory documentation.