

VMware Installation

This page contains instructions on how to install VoipNow on VMware vSphere.

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 - [Log in to vSphere portal](#)
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Get Help

If something is unclear or you need further assistance, do not hesitate to open a ticket in the [4PSA Support Zone](#) or ask a question in our monitored [GetSatisfaction community](#).

Requirements

We highly recommend VMware vSphere 6.0 or newer versions for production environments. For testing purposes, you may use VMware Player.

To meet VoipNow's performance and computing requirements, the virtual machine must have the following configuration:

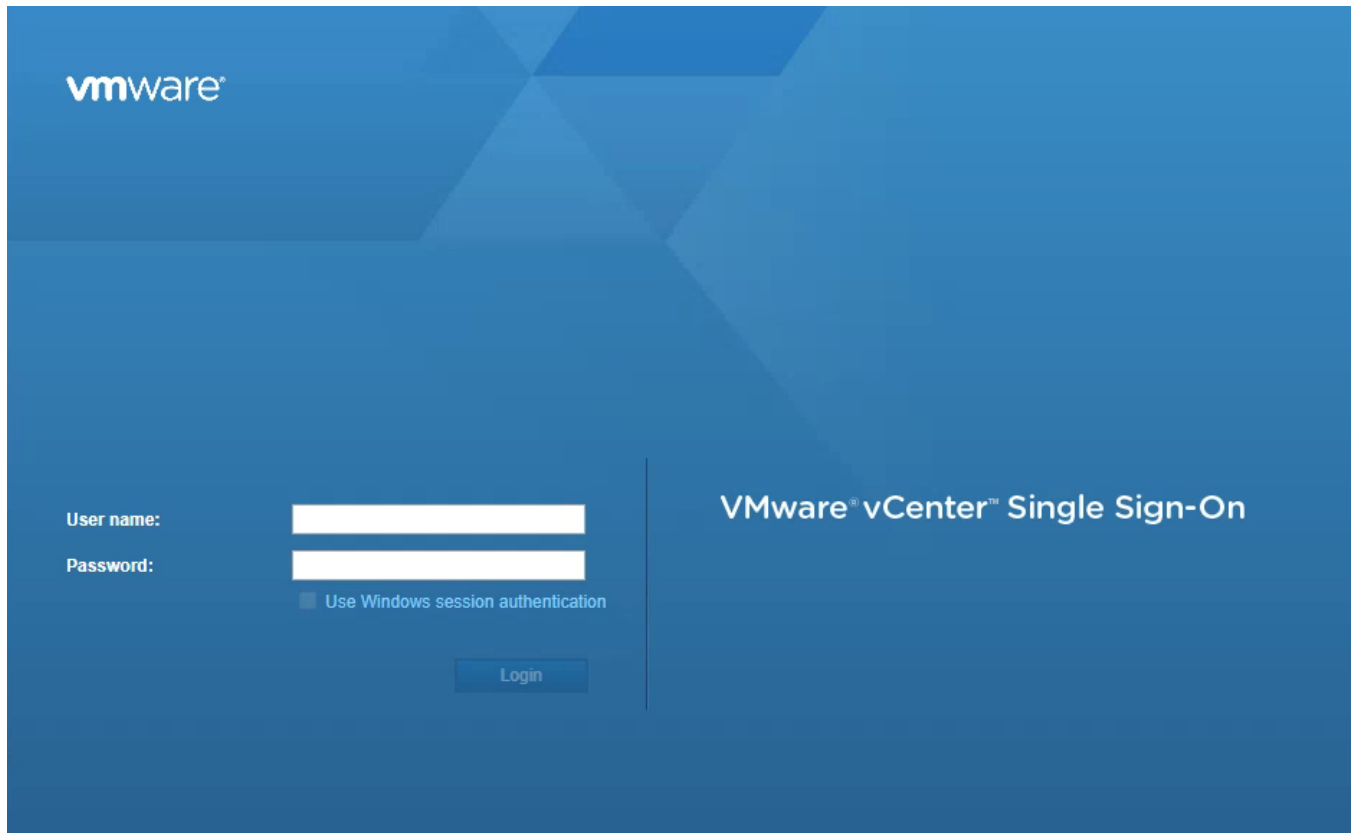
- Memory: 6GB (*or more*)
- CPUs: 4 (*or more*)
- SCSI controller: Paravirtual
- Network adapter: VMXNET 3
- HDD: 160GB virtual disk (*or more*)
- CDROM: yes
- Guest Operating System: Linux (Redhat Enterprise system 7 or newer)

Installation

In order to install VoipNow, you must download the ISO image from [here](#).

Log in to vSphere portal

Open the browser and access your vSphere portal link and log in using your credentials.



vmware

User name:

Password:

☐ Use Windows session authentication

Login

VMware vCenter Single Sign-On

Create a new virtual machine

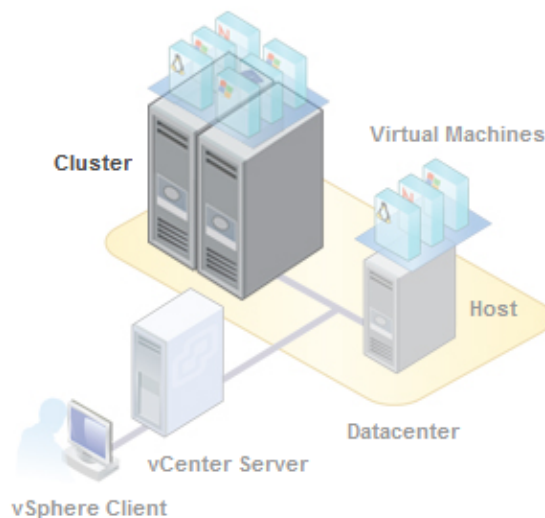
Go to the **datacenter** and **folder** in which you want to create the virtual machine.

Getting Started Summary Monitor Manage Related Objects

What is a Cluster?

A cluster is a group of hosts. When you add a host to a cluster, the host's resources become a part of the cluster's resources. The cluster manages the resources of all hosts within it.

Clusters enable the vSphere High Availability (HA), the vSphere Distributed Resource Scheduler (DRS), and the Virtual SAN (VSAN) solutions.



Basic Tasks



[Add a host](#)



[Create a new virtual machine](#)

Explore Further

[Learn more about clusters](#)

[Learn more about resource pools](#)

When asked what to do, choose to **Create a new virtual machine** and press **Next**.

New Virtual Machine

1 Select creation type

✓ 1a Select a creation type

2 Edit settings

2a Select a name and folder

2b Select a compute resource

2c Select storage

2d Select compatibility

2e Select a guest OS

2f Customize hardware

3 Ready to complete

Select a creation type
How would you like to create a virtual machine?

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

Back Next Finish Cancel

Select the proper **folder** name, **compute resource** and **storage** where you want to create the virtual machine.

New Virtual Machine

1 Select creation type

✓ 1a Select a creation type

2 Edit settings

✓ 2a Select a name and folder

✓ 2b Select a compute resource

2c Select storage

2d Select compatibility

2e Select a guest OS

2f Customize hardware

3 Ready to complete

Select a compute resource
Select the destination compute resource for this operation

Search

- Hubgets Demo
 - hubgets
 - test

Select a cluster, host, vApp or resource pool to run this virtual machine.

Compatibility:

✓ Compatibility checks succeeded.

Back Next Finish Cancel

Choose a compatibility level lower than your infrastructure so that you can move the virtual machine at a later time, if necessary.

New Virtual Machine

1 Select creation type

- 1a Select a creation type

2 Edit settings

- 2a Select a name and folder
- 2b Select a compute resource
- 2c Select storage
- 2d Select compatibility**
- 2e Select a guest OS
- 2f Customize hardware

3 Ready to complete

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 6.0 and later**

This virtual machine uses hardware version 11 and provides the best performance and latest features available in ESXi 6.0.

Back Next Finish Cancel

When asked to choose the operating system, select **Linux** and **CentOS 4/5/6/7 64 bit**.

New Virtual Machine

1 Select creation type

- 1a Select a creation type

2 Edit settings

- 2a Select a name and folder
- 2b Select a compute resource
- 2c Select storage
- 2d Select compatibility
- 2e Select a guest OS**
- 2f Customize hardware

3 Ready to complete

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: **Linux**

Guest OS Version: **CentOS 4/5/6/7 (64-bit)**

Compatibility: ESXi 6.0 and later (VM version 11)

Back Next Finish Cancel

In the **Customize Hardware** step, select at least 4 CPU (2 sockets and 2 or more Cores).

Always create a reservation for CPU and RAM!

Configuring CPU and RAM reservations will make the virtual machine behave properly under load, without skewing time or causing voice traffic issues.

New Virtual Machine

1 Select creation type

✓ 1a Select a creation type

2 Edit settings

✓ 2a Select a name and folder

✓ 2b Select a compute resource

✓ 2c Select storage

✓ 2d Select compatibility

✓ 2e Select a guest OS

2f Customize hardware

3 Ready to complete

Customize hardware
Configure the virtual machine hardware

Virtual Hardware | VM Options | SDRS Rules

***CPU**

Cores per Socket (*) 2 Sockets: 1

CPU Hot Plug ☐ Enable CPU Hot Add

Reservation (*) 3000 MHz

Limit Unlimited MHz

Shares Normal 2000

CPUID Mask Expose the NX/XD flag to guest [Advanced...](#)

Hardware virtualization ☐ Expose hardware assisted virtualization to the guest OS

Performance counters ☐ Enable virtualized CPU performance counters

Scheduling Affinity Hyperthreading Status: Active
Available CPUs: 48 (logical CPUs)

New device: ----- Select ----- Add

Compatibility: ESXi 6.0 and later (VM version 11)

Back Next Finish Cancel

Customize the **Ram** memory.

New Virtual Machine

1 Select creation type

✓ 1a Select a creation type

2 Edit settings

✓ 2a Select a name and folder

✓ 2b Select a compute resource

✓ 2c Select storage

✓ 2d Select compatibility

✓ 2e Select a guest OS

2f Customize hardware

3 Ready to complete

Customize hardware
Configure the virtual machine hardware

Virtual Hardware | VM Options | SDRS Rules

Note: If a selected setting is not supported by the host or conflicts with existing virtual machine settings, the setting is ignored and the "Automatic" selection is used.

***Memory**

RAM (*) 6 GB

Reservation (*) 2 GB

☐ Reserve all guest memory (All locked)

Limit Unlimited MB

Shares Normal 61440

Memory Hot Plug ☐ Enable

New Hard disk 16 GB

New SCSI controller LSI Logic Parallel

***New Network** public_601 (hgd) ☒ Connect...

New device: ----- Select ----- Add

Compatibility: ESXi 6.0 and later (VM version 11)


Back Next Finish Cancel

Once you've completed these steps, finish creating the virtual machine.

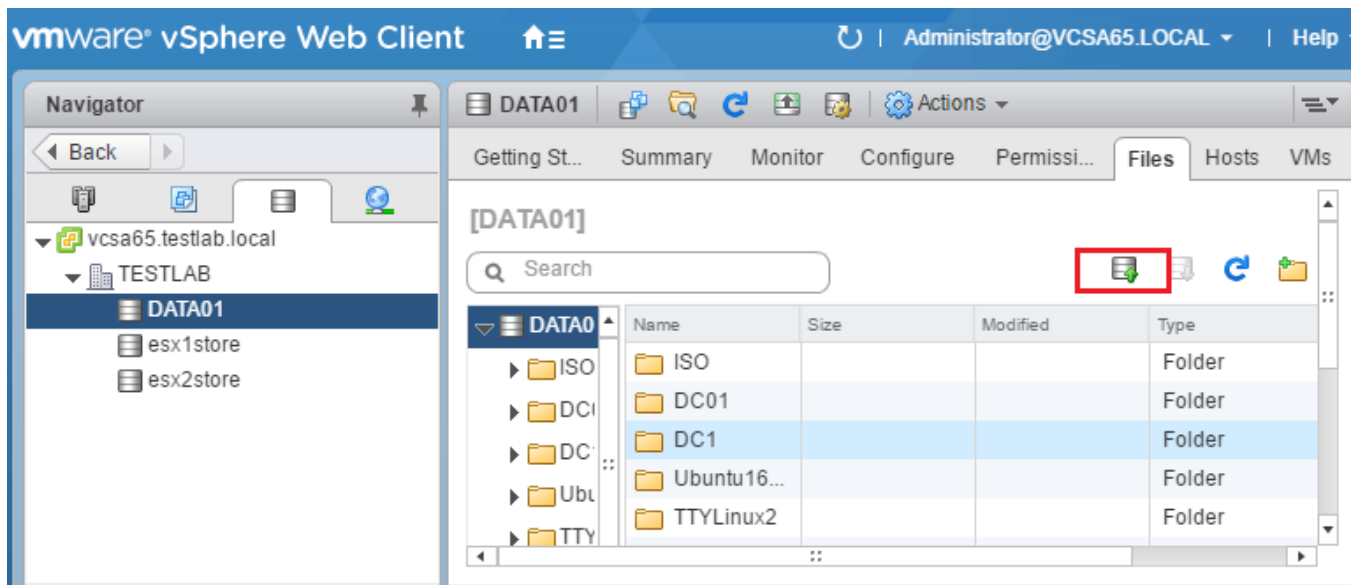
Upload iso image to datastore

Go to **Datastore** section and choose the datastore where you want to upload the VoipNow ISO image.

Navigator

 Back ▼  vcsa65.testlab.local▼  TESTLAB DATA01 esx1 esx2 Actions - DATA01 Browse Files Register VM... Refresh Capacity Information Increase Datastore Capacity... Mount Datastore... Unmount Datastore...Maintenance Mode 

Then upload the file.



Power virtual machine and connect the ISO image

Go to the virtual machines list and select the virtual machine you've just created.

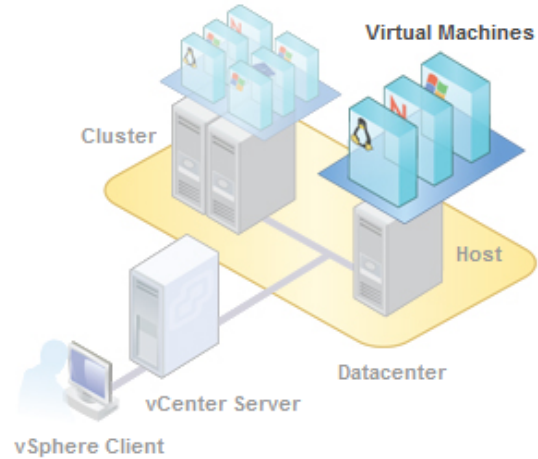


What is a Virtual Machine?





A virtual machine is a software computer that, like a physical computer, runs an operating system and applications. An operating system installed on a virtual machine is called a guest operating system.

Because every virtual machine is an isolated computing environment, you can use virtual machines as desktop or workstation environments, as testing environments, or to consolidate server applications.

In vCenter Server, virtual machines run on hosts or clusters. The same host can run many virtual machines.



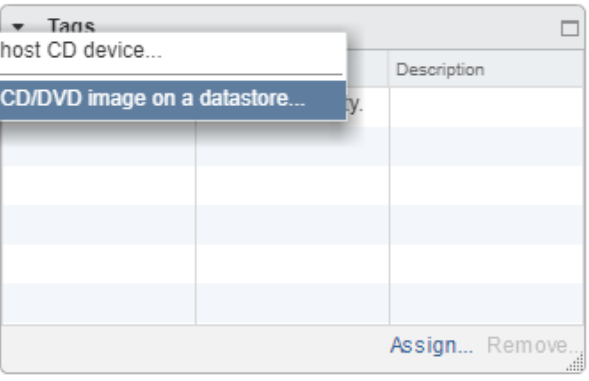
Basic Tasks

-  [Power on the virtual machine](#)
-  [Power off the virtual machine](#)
-  [Suspend the virtual machine](#)
-  [Edit virtual machine settings](#)

Explore Further

- [Learn how to install a guest operating system](#)
- [Learn more about virtual machines](#)
- [Learn about templates](#)

Connect the ISO image from the datastore to the virtual machine.



Follow the instructions in the [ISO Image Installation](#) guide.