Oracle® Enterprise Manager Ops Center

Creating vServers

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This guide provides an end-to-end example for how to use Oracle Enterprise Manager Ops Center.

Introduction

In Oracle Enterprise Manager Ops Center, the resources allocated to a Virtual Datacenter (vDC) are entitled to accounts. Accounts are containers for virtual resources and provides the required capabilities to manage the allocated resources.

An account entitles designated cloud users the right to use computing, network, and storage resources of a vDC to create virtual servers, known as vServers, and host or access applications.

Oracle Enterprise Manager Ops Center provides a wizard that walks you through a series of steps to collect information and resources to create vServers.

This guide describes the options available to cloud users when creating vServers in an account using Oracle VM Server for x86 as the virtualization technology. This guide also includes a series of steps to prepare for vServers creation in the account.

In this guide, the following aspects are covered:

1. Upload a Server Template
2. Create a Private vNet
3. Create a vServer

See Related Articles and Resources for links to related information and articles.

What You Will Need

You will need the following to create vServers:

- An account in a vDC using Oracle VM Server for x86 as the virtualization technology.
- A cloud user with access to the account.
- Enough resources available in the account: vcpu, networks, memory, and storage.
- A server template file in a location accessible to the Enterprise Controller server.

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Upload a Server Template

A server template provides pre-built images for creating vServers. Server templates are specific to processor architecture of the server pool and virtualization type and contain the configuration of a vServer.

You can upload two different types of server template to your account: template and assembly.

In this example, you upload your server template using a template based on a file for a single virtual machine template that is ready to be deployed into virtualized platforms. For this example, the template file is accessible through a URL.

The server template uploaded in this example is used later in this guide to to create the vServer.

1. Expand vDC Management in the Navigation pane.
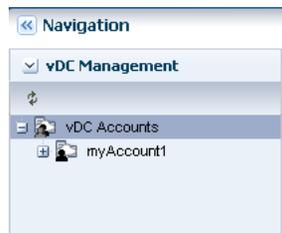
2. Select the account listed under vDC Accounts.

   The account must have enough free storage to store the new server template. You can verify the storage utilization in the Dashboard or Storage tab of the account.
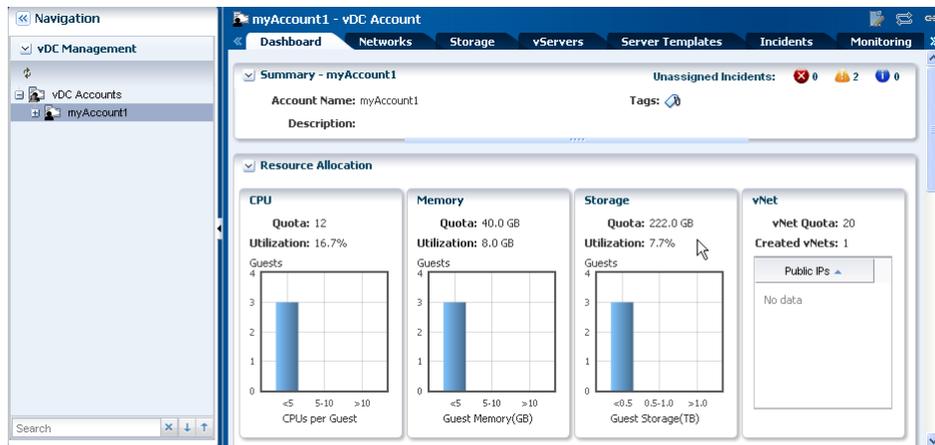
3. Click Upload Server Template in the Actions pane.
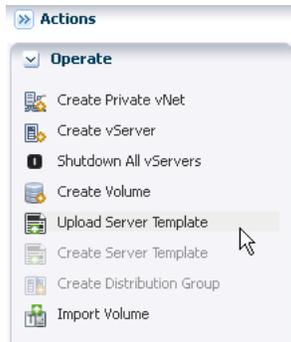
4. Select the Template type and enter a name and description for the server template. Click Next.

   In this step, you can also add a Tag to the server template.
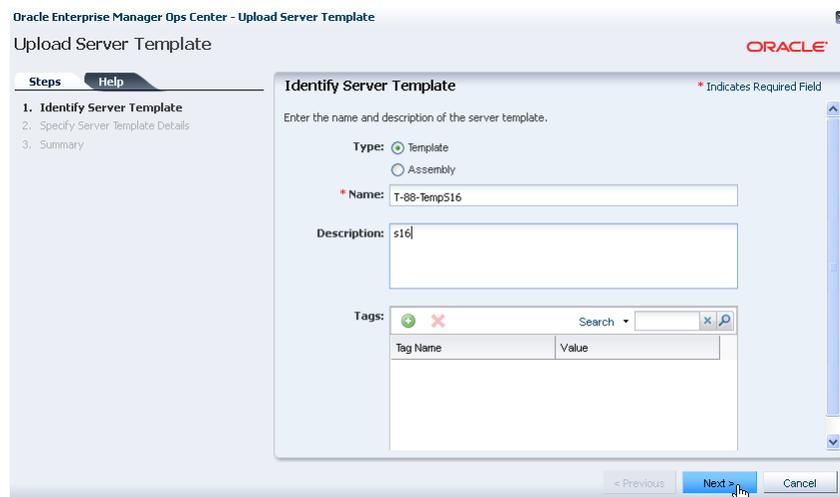
5. Select URL as the upload source. Enter the URL of the template file and click Next.

   Use only HTTP, HTTPS, or FTP protocols to upload the server templates from other locations.

6. Review the server template information and click Upload.

After the job completes, the server template is listed in the Server Template tab of of the account. The server template is created as private, you can register the server template if you want it to be visible to other accounts in the vDC.

Create a Private vNet

An account can have public networks or private vNets. vServers are bound to one or more networks to connect and restrict network access. As cloud user, you can only

create private vNets. Public networks are created by the cloud administrator when a vDC is created.

In this example, you create a private vNet for 14 elements. Only 14 vIPs can be assigned to vServers within this private vNet. The private vNet created in this example is used later in this guide to create the vServer.

1. Select the account listed under vDC Accounts.

In the account must have enough vNet quota available for the new vNet. You can verify the vNet quota in the Dashboard or Network tab of the account.

2. Click Create Private vNet Template in the Actions pane.

3. Enter a name and description for the private vNet. Click Next.

In this step, you can also add a Tag to the private vNet.
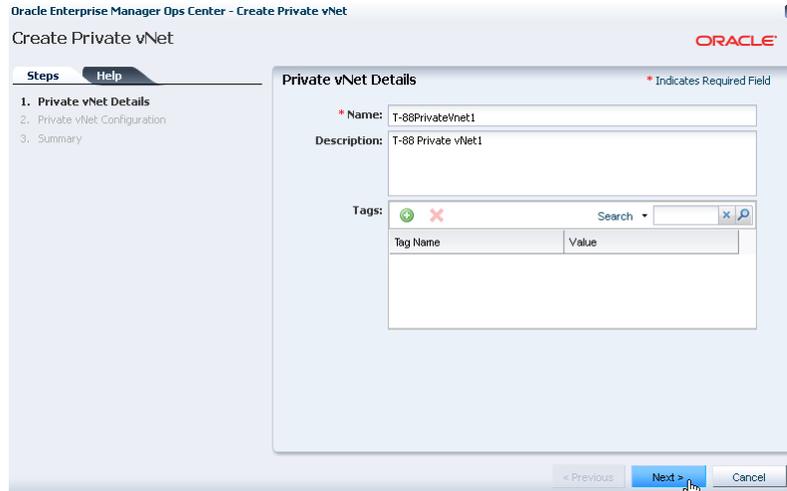
4. Enter the number of elements, or slide the bar to select the number. Click Next.
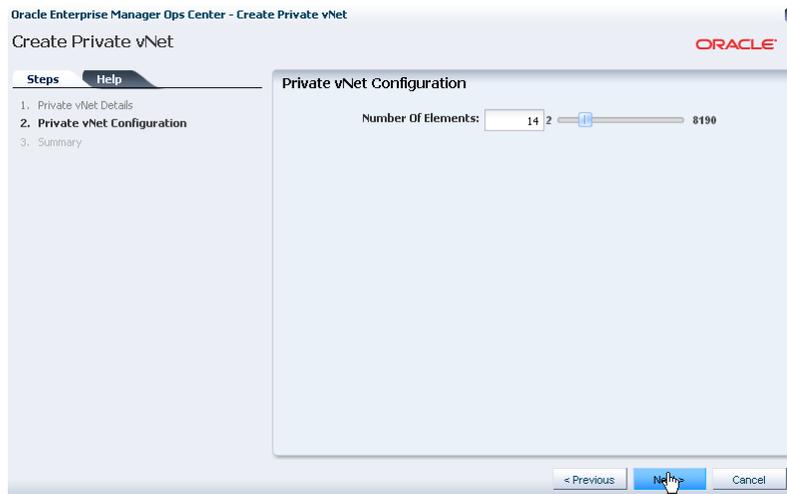
5. Review the private vNet information and click Finish to create.

After the job completes, the private vNet is listed in the Networks tab of the account.

Create a vServer

A vServer is an entity that provides the outward interface of a stand-alone operating system that consumes CPU, storage, and memory resources. A vServer has its own identity, local storage, interfaces, and configuration that exist for the full lifetime of the vServer.

In this example, you create a vServer using the server template uploaded previously to create a virtual machine guest with Oracle Linux as operating system. You also assign a vIP automatically using the vNet created previously. A vIP from a public network is not assigned to this vServer.

1. Select the account listed under vDC Accounts.
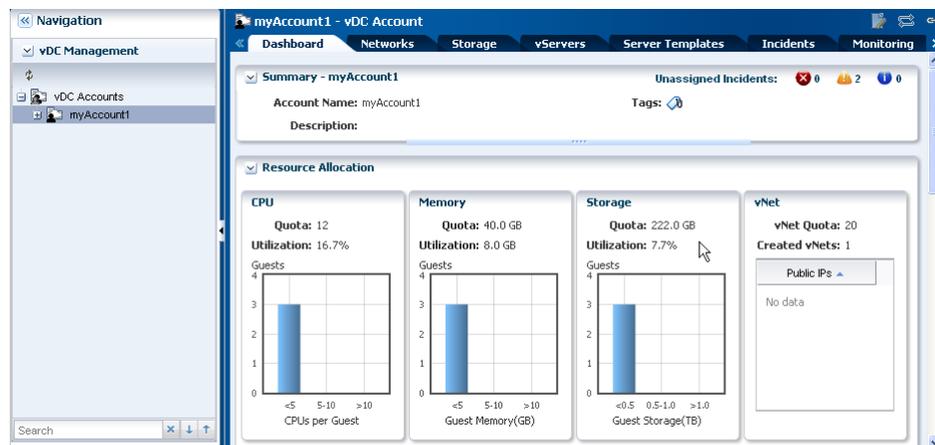
2. Click Create vServer in the Actions pane.
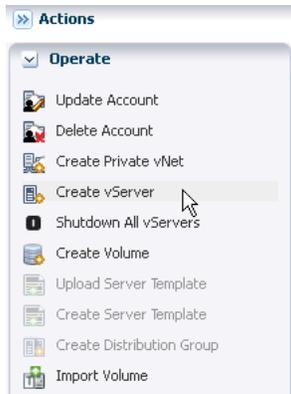
3. Enter a name and description for the vServer. Click Next.

   In this step, you can also add a Tag to the vServer.
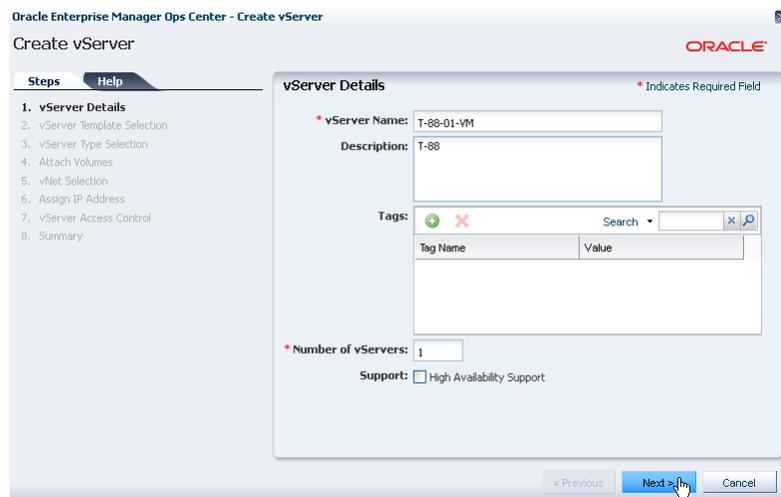
4. Select the server template required for creating the vServer. Click Next.
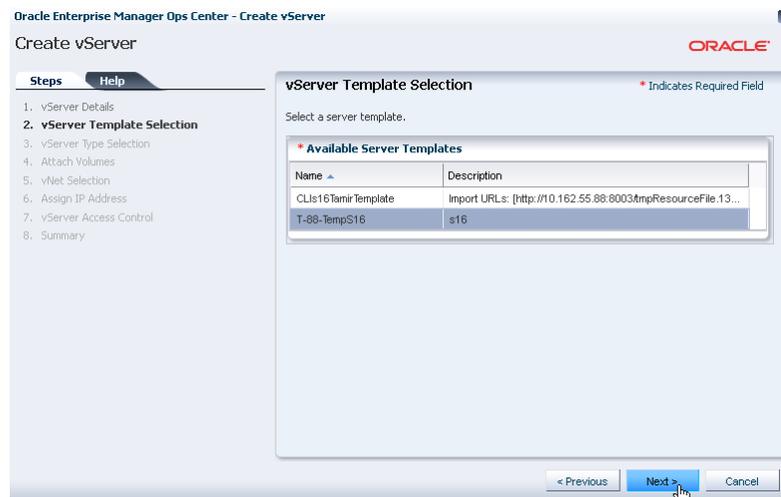
5. Select the SMALL vServer type from the list. Click Next.
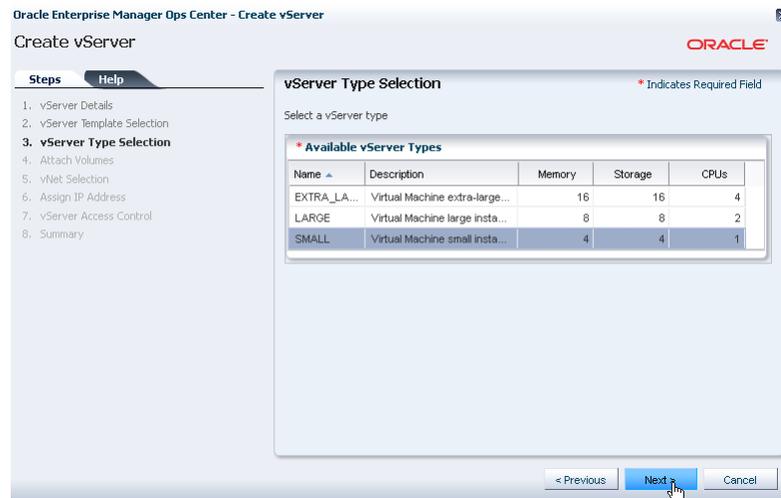
6. Click Next. There are no volumes available to attach.

You can attach a volume at this step if you have any available or you can attach the volume after the vServer is created.
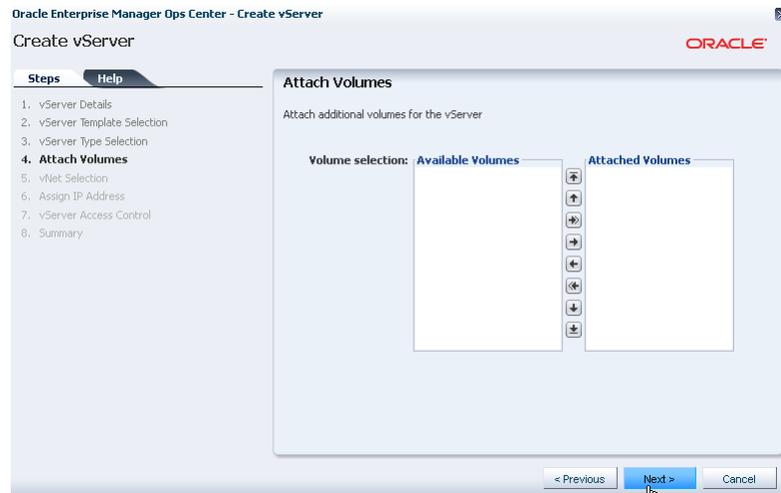
7. Select a vNet from the list. Click Next.
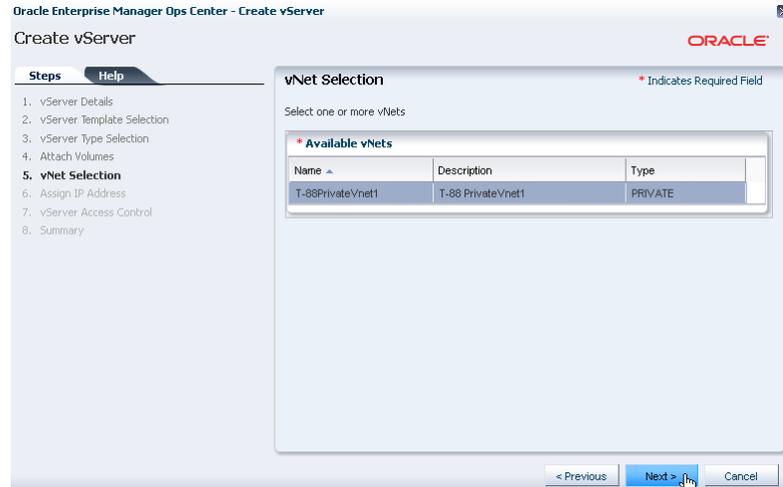
8. Select automatic as the network address allocation method. Click Next.
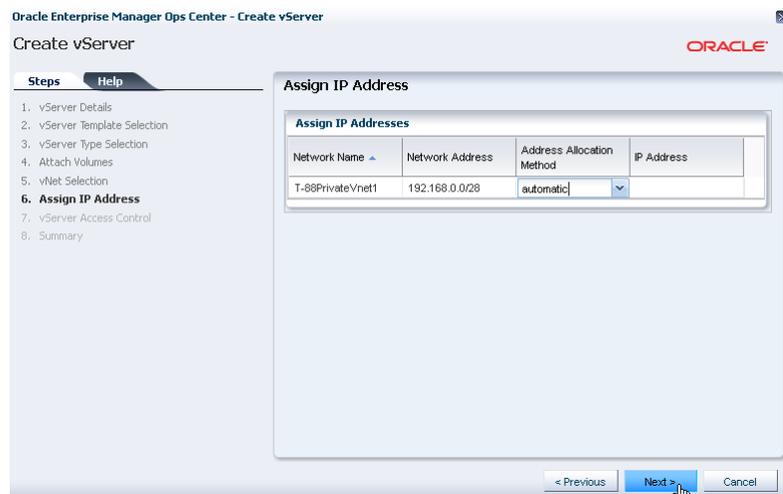
9. Click Next. The vServer Access Control option is not used for this vServer.

This option enables the use of a public key to authenticate SSH root access to the vServer. In this example, the vServer Access Control option is not used for this vServer.

10. Review the vServer information and click Finish to create.
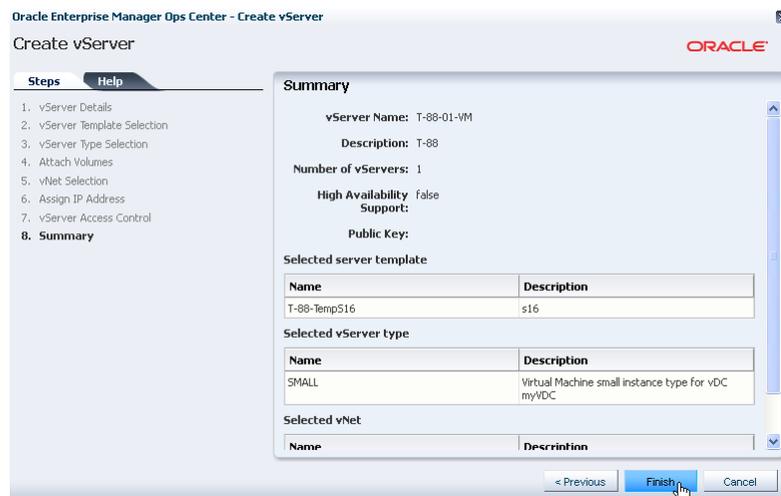
After the job completes, the vServer is created and visible in the vServers tab of the account.

What's Next?

- You can manage the life cycle of the vServer. Refer to *Managing and Using Your vServers* for some options to manage and use the vServer.

- Learn more about the Cloud API and CLI that is available for a cloud user to manage the resources efficiently in an account. Refer to *Oracle Enterprise Manager Ops Center Cloud Infrastructure API and CLI Reference Guide* for more information.

Related Articles and Resources

Refer to the following documentation resources for more information:

- Virtual Datacenters chapter of the *Oracle Enterprise Manager Ops Center Features Guide*

- *Oracle Enterprise Manager Ops Center How To Library*

- *Oracle Enterprise Manager Ops Center Cloud Infrastructure API and CLI Reference Guide*

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