Using vCloud Connector

vCloud Connector 1.5

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VMware, Inc.
3401 Hillview Ave.
Palo Alto, CA 94304
www.vmware.com

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Using vCloud Connector

Using vCloud Connector provides information on using vCloud Connector, through the vSphere Client or at vcloud.vmware.com, to connect and oversee multiple clouds and to move cloud content from one cloud to another. It also covers managing multiple users at vcloud.vmware.com.

Intended Audience

This information is intended for anyone who wants to use vCloud Connector to connect and oversee multiple clouds in a single user interface. The information is written for cloud system administrators who are familiar with vSphere and vCloud Director and basic cloud concepts.

Working with Clouds 1

This section provides information on using vCloud Connector, through the vSphere Client or in vcloud.vmware.com, to connect and oversee multiple clouds and to move cloud content from one cloud to another.

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Access vCloud Connector

You can access vCC either through the vSphere Client or through vcloud.vmware.com, depending on how your vCC has been set up.

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2 Access vCloud Connector by Using vcloud.vmware.com on page 9

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Access vCloud Connector by Using the vSphere Client

If vCloud Connector is registered with the vCenter Server to which the vSphere Client is pointing, vCC acts as a client plug-in.

Procedure

1 Log in to the vSphere Client.

2 Click **Home**.

3 On the home page, click the **vCloud Connector** icon in the Solutions and Applications area.

4 If you have not upgraded your SSL certificate and you receive a warning, accept the link.

Access vCloud Connector by Using vcloud.vmware.com

If vCloud Connector is registered with the vcloud.vmware.com website, you can access the vCC UI through the website.

NOTE   If the vCC Server is installed behind a firewall, you cannot access vCC unless you are on that network or logged in through a VPN.

Prerequisites

A vmware.com account associated with the particular vCC instance.

Procedure

1   Log in to vcloud.vmware.com using the vmware.com store account that was associated with the vCC UI when it was registered with the site.

    If you have been invited to join someone else's vCC, use your own vmware.com store account and the URL you received with your invitation.

2   Click **vCloud Connector** in the left navigation bar.

    If this is the first time you have logged in since you installed and configured vCloud Connector, you are at the Getting started with vCloud Connector screen. Here you can decide whether or not to invite others to share your vCC Server. If you choose not to, you can always invite others later on.

3   To add your first cloud to your vCC UI, click **Add a Cloud Now**. Once you have added your first cloud, clicking **vCloud Connector** in the left nav bar will take you directly to the vCC display.

    If you have been invited to join someone else's vCC, clicking vCloud Connector takes you directly to the vCC display.

Add a Cloud to vCloud Connector

To use vCloud Connector to oversee a cloud, you must first add the cloud to the Connector UI.

If you are planning to access vCloud Connector from both vSphere Client and vcloud.vmware.com, you will need to add your clouds in both locations. Accounts on vSphere Client and vcloud.vmware.com are not linked.

Prerequisites

An instance of vCC Node is installed in the cloud you wish to add to your vCC and that Node is registered with vCC Server.

Procedure

1   Open vCC in either vSphere Client or vcloud.vmware.com. For more information, see "Access vCloud Connector," on page 8.

2   In the left panel, click **+ Add Cloud**.

    The Add Cloud popup appears.

3   Select the **Name** of the cloud to add from the drop-down menu.

    Only clouds whose nodes are registered with the vCC Server are displayed.

4   Type the username and password for an administrative account (Org Administrator or better for vCloud Director) for that cloud.

5   Click **Add**.

If you are using IE 7 or better (or the vSphere Client plug-in) and the cloud you are adding has a large number of VMs, you may get a Stop running this script? dialog box one or more times as the VMs load. Click **No** each time the popup appears. Do not switch between clouds until at least one screen of the new cloud has loaded.

The cloud by name appears in the left panel and the cloud's templates and workloads appear in the center panel.

NOTE   Multiple users sharing the same vCC Server through vcloud.vmware.com each have a personalized version of the vCC UI, so each must add the clouds they wish to see displayed.

Update or Delete a Cloud in vCloud Connector

You can update a cloud's credentials or delete the cloud altogether from your vCloud Connector.

Prerequisites

The cloud has been added to your vCloud Connector and vCC is open.

Procedure

1   Locate the cloud to update or delete in the left panel.

2   Right-click the cloud name and select **Edit** or **Delete**.

3   If you are updating the cloud, make your changes in the Update Cloud pop-up and click **Update**.

Get Information about a Template, Virtual Machine, or vApp

vCloud Connector can display basic information about a template, virtual machine. or vApp.

Prerequisites

vCloud Connector is open.

Procedure

1   In the left panel, select the cloud that contains the virtual machine in which you are interested.

2   Click the **Workloads** or **Templates** tab, depending on what you are interested in seeing.

3   Click the **i** icon at the end of the appropriate entry.

The Details pop-up window appears. It displays the CPU count, the memory capacity, and the storage capacity associated with that item. For vApps and virtual machines, also displays the IP addresses and the guest operating system type.

Stop, Start, Suspend, or Reset a Virtual Machine or vApp

You can use vCC to stop, start, suspend, or reset a virtual machine in a cloud that has been added to vCloud Connector.

Prerequisites

vCloud Connector is open.

Procedure

1   In the left panel, select the cloud that contains the virtual machine or vApp in which you are interested.

2   Click the **Workloads** tab.

3   Click the gears icon next to the appropriate entry.

     The Actions popup appears.

4   Select the action to perform.

     If you are changing the state of a vApp with multiple VMs, the status of the child VMs will not reflect their new state automatically. To see the updated status, refresh the screen. Suspend and Reset options are not available for a vApp in vCenter 40U3.

Search for a Template, Virtual Machine, or vApp

If your vCloud Connector oversees a large number of templates and virtual machines, you can search for specific instances by name.

Prerequisites

vCloud Connector is open.

Procedure

1   In the left panel, select the cloud to search.

2   Type the name or the partial name of the entries you wish to find in the Search text box, located at the top right of the center panel.

3   Click the magnifying glass icon.

Search results in both Templates and Workloads are displayed.

Access a Virtual Machine Console

You can open the console of a virtual machine in a cloud that has been added to vCloud Connector.

Prerequisites

vCloud Connector is open to the Workloads tab.

Procedure

1   Locate the virtual machine whose console you want to access in the Workloads list.

     You can use the Search function if your list is extensive. If the VM is not running, power it on.

2   Double-click the Console thumbnail at the left of the virtual machine's name.

3   If the VMware Remote Console plug-in is not installed, you are prompted to install it.

The requested console opens in a new browser window.

NOTE   If you are using vCC through vSphere Client 4.x and you wish to access a vCloud Director 1.0 virtual machine console, you must be using an updated version of vSphere Client that supports launching a console. The applicable versions of vSphere Client include:

■   4.0U3

■   4.1U2

Monitor the Status of a Task

You monitor the status of tasks using the Task Panel.

Prerequisites

vCloud Connector is open.

Procedure

1 To show the Tasks Panel, click the double arrows at the top right of the display.

The Tasks Panel opens.

2 Click the single arrows to open the status type for which you want information: **In Progress**, **Completed**, or **Failed**.

Completed and failed tasks are only visible in the vCC UI for 48 hours.

3 To close the Tasks Panel, click the double arrows at the top right again.

Copy a Template to a vSphere Cloud

To move content from one cloud to another you use the copy function. You can use the copy function to move templates to a vSphere Cloud.

Prerequisites

vCloud Connector is open.

Procedure

1 Click the **Template** tab in the central panel.

2 Click the gears icon at the end of the entry for the template you wish to move and click **Copy** from the menu that appears.

You cannot copy a template from a public catalog.

The Copy Template popup appears.

3 Select the target cloud to which to move the template from the drop down menu.

4 Enter a name for the template in the **Template Name** field.

NOTE   The following characters are not supported in the name of the template being moved: "%", "#", "<", ">", "&".

5 Type the target folder name for the instance in the **Target Folder** field.

Click **Select** to see your available choices

6 Enter the cluster/host for the instance in the **Cluster/Host** field.

Click **Select** to see your available choices

7 Enter the resource pool for the instance in the **Resource Pool** field.

Click **Select** to see your available choices

8 Select the datastore for the instance from the drop-down menu in the **Datastore** field.

9 Select the disk format for the instance in the drop-down menu in the **Disk Format** field.

10 Click **Copy**.

To monitor the progress of your copy, see the right **Task** panel.

NOTE   You can start multiple copies at the same time. The copies are executed in sequence. Do not copy the same item to the same destination multiple times quickly in a row: only the first copy in such a scenario succeeds.

The template is copied. You might need to reload the screen to see the template in the destination instance.

Copy a Template to a vCloud Director Cloud

To move content from one cloud to another you use the copy function. You can use the copy function to move templates to a vCloud Director cloud.

Procedure

1 Open vCC in either vSphere Client or vcloud.vmware.com.

2 Click the **Template** tab in the central panel.

3 Click the gears icon at the end of entry for the template to copy and click **Copy** from the menu that appears.

   You cannot copy a template from a public catalog.

   The Copy Template popup appears.

4 Select the target cloud from the drop down menu.

5 Enter a name for the template in the **Template Name** field.

   > NOTE   The following characters are not supported in the name of the item being moved: "%", "#", "<", ">", "&".

6 Enter a description of the instance in the **vApp Description** field.

7 Click **Select** , select the target VDC from the pop-up list, and cllick **Select** again to confirm.

8 Click **Select** , select the appropriate catalog from the pop-up list, and click **Select** again to confirm.

9 Click **Copy**.

   To monitor the progress of your copy, see the right **Task** panel.

   > NOTE   You can start multiple copies at the same time. The copies are executed in sequence. Do not copy the same item to the same destination multiple times quickly in a row: only the first copy in such a scenario succeeds.

The template is copied. You might need to reload the screen to see the template in the destination instance.

Copy a Workload to a vSphere Cloud

To move content from one cloud to another you use the copy function. Because you can only move templates, to copy a running instance of a virtual machine or vApp, you must power it down before you start a copy. The virtual machine or vApp is automatically converted to a template.

Procedure

1 Open vCC in either vSphere Client or vcloud.vmware.com.

2 Click the **Workloads** tab in the central panel.

3 Click the gears icon at the end of the entry to move and click **Power Off** from the menu that appears.

4 Click **OK** in the confirmation popup.

5 Click the gears icon again and click **Copy**.

   The Copy Workload popup appears.

6 If the source is a vCD cloud, click **Select** to select the Source Catalog from the Select a Source Catalog popup.

7 Select the target cloud from the drop down menu.

8   Enter a name for the item in the **vApp/VM Name** field.

> NOTE   The following characters are not supported in the name of the item being moved: "%", "#", "<", ">", "&".

9   Type the target folder name for the instance in the **Target Folder** field.

    Click **Select** to see your available choices.

10   Enter the cluster/host for the instance in the **Cluster/Host** field.

    Click **Select** to see your available choices.

11   Enter the resource pool for the instance in the **Resource Pool**field.

    Click **Select** to see your available choices.

12   Select the datastore for the instance from the drop-down menu in the **Datastore** field.

13   Select the disk format for the instance in the drop-down menu in the **Disk Format** field.

14   Click **Copy**.

    To monitor the progress of your copy, see the right **Task** panel.

> NOTE   You can start multiple copies at the same time. The copies are executed in sequence. Do not copy the same item to the same destination multiple times quickly in a row: only the first copy in such a scenario succeeds.

The workload is copied as a template. You might need to reload the screen to see the template in the destination instance.

Copy a Workload to a vCloud Director Cloud

To move content from one cloud to another you use the copy function. Because you can only move templates, to copy a running instance of a virtual machine or vApp, you must power it down before you start a copy. The virtual machine or vApp is automatically converted to a template.

Procedure

1   Open vCC in either vSphere Client or vcloud.vmware.com.

2   Click the **Workloads** tab in the central panel.

3   Click the gears icon at the end of the entry to move and click **Power Off** from the menu that appears.

4   Click **OK** in the confirmation popup.

5   Click the gears icon again and click **Copy** from the menu that appears.

    The Copy Workload popup appears.

6   If the source is a vCD cloud, click **Select** to select the Source Catalog from the Select a Source Catalog popup.

7   Select the target cloud from the drop down menu.

8   Enter a name for the vApp in the **vApp Name** field.

> NOTE   The following characters are not supported in the name of the item being moved: "%", "#", "<", ">", "&".

9   Enter a description of the instance in the **vApp Description** field.

10   Click **Select** , select the target VDC from the pop-up list, and cllick **Select** again to confirm.

11 Click **Select** , select the appropriate catalog from the pop-up list, and click **Select** again to confirm.

12 Click **Copy**.

To monitor the progress of your copy, see the right **Task** panel.

> **NOTE** You can start multiple copies at the same time. The copies are executed in sequence. Do not copy the same item to the same destination multiple times quickly in a row: only the first copy in such a scenario succeeds.

The workload is copied as a template. You might need to reload the screen to see the template in the destination instance.

Deploy a Template as a vApp or a Virtual Machine in a vSphere Cloud

After you copy a template from one cloud to a vSphere cloud, you deploy a running instance of the virtual machine or vApp from the template.

Procedure

1 Open vCC in either vSphere Client or vcloud.vmware.com.

2 Click the **Template** tab in the central panel.

3 Click the gears icon at the end of entry for the template to deploy and click **Deploy** from the menu that appears.

The Deploy Template popup appears.

4 Type a name for the deployed instance in the **Name** field.

5 Type the target folder name for the instance in the **Target Folder** field.

Click **Select** to see your available choices

6 Enter the cluster/host for the instance in the **Cluster/Host** field.

Click **Select** to see your available choices

7 Enter the resource pool for the instance in the **Resource Pool**field.

Click **Select** to see your available choices

8 Select the datastore for the instance from the drop-down menu in the **Datastore** field.

9 Select the disk format for the instance in the drop-down menu in the **Disk Format** field.

10 Select the **Power On after deployment** check box to automatically power on the instance.

11 Click **Deploy**.

To monitor the progress of your deployment, see the right **Task** panel. You may need to refresh your screen to see the deployed instance.

> **NOTE** All EULAs are accepted automatically by vCloud Connector during the deployment process.

Deploy a Template as a vApp or a Virtual Machine in a vCloud Director Cloud

After you copy a template from one cloud to vCloud Director cloud, you deploy a running instance of the virtual machine or vApp from the template.

Prerequisites

vCloud Connector is open.

Procedure

1 Open vCC in either vSphere Client or vcloud.vmware.com.

2 Click the **Template** tab in the central panel.

3 Click the gears icon at the end of entry for the template to deploy and click **Deploy** from the menu that appears.

The Deploy Template popup appears.

4 Give the deployed instance a name in the **vAppName** field.

5 Type a description of the instance in the **vApp Description** field.

6 Click **Select** , select the target VDC from the pop-up list, and cllick **Select** again to confirm.

7 Select the appropriate network from the **Network Config** dropdown list.

8 Select the **Power On after deployment** check box to automatically power on the instance.

9 Click **Deploy**.

To monitor the progress of your deployment, see the right **Task** panel. You may need to refresh your screen to see the deployed instance.

NOTE   All EULAs are accepted automatically by vCloud Connector during the deployment process.

Delete a Template,Virtual Machine, or vApp

You can use vCC to delete a template, virtual machine, or vApp from a cloud you have added.

Prerequisites

vCloud Connector is open.

Procedure

1 Click either the **Template** tab or the **Workloads** tab.

2 Click the gears icon at the end of the entry for the item to delete.

If a task is in progress for that item, you cannot delete it.

3 If the item is currently running, select **Power Off** and click **OK** at the confirmation popup.

4 Click the gears icon again, select **Delete**, and click **OK** at the confirmation popup.

The item is deleted.

NOTE   To see the item count on the tab update, refresh the screen.

Select the Active vCloud Connector Server

A single vmware.com store account can have access to more than one vCC Server through vcloud.vmware.com. If you have multiple accounts, you must indicate the Server whose functionality you wish to use.

Prerequisites

vCloud Connector is open.

Procedure

1 Click **Settings** on the upper right of the screen.

The Settings page opens.

2   Select the vCC Server to use from the **Active Server** drop-down list.

      Only vCC Servers associated with the store account with which you logged in to vcloud.vmware.com show up in the list.

Open the vCloud Director Management Console from vCC

You can open the vCloud Director management console for any vCD cloud you have added to your vCloud Connector.

Prerequisites

vCloud Connector is open.

Procedure

1   In the left panel, click the appropriate cloud name.

2   Click the triangle icon to open the cloud.

3   Right click on the org name.

4   Select **Launch Console** from the menu that appears.

The log-in page for the vCD console appears in a new browser window.

Troubleshooting vCloud Connector for Users

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Use this information to troubleshoot problems with using vCloud Connector.

- No Files to Upload Error During Copy on page 19

  If the target location of your copy operation does not have enough space to store the template you are moving, you receive a No files to upload error

- UnknownHostException During Copy Operation on page 19

  Attempting to copy to a vCloud Director cloud fails with an UnknownHostException.

- Cannot Access vCC Server from vcloud.vmware.com on page 20

  The vCloud Connector interface is not available through vcloud.vmware.com.

No Files to Upload Error During Copy

If the target location of your copy operation does not have enough space to store the template you are moving, you receive a No files to upload error

Problem

You attempt to copy a template to a target location, but you receive a No files to upload error.

Cause

Though this error can be caused by any failure to parse the template ovf file, usually it appears when there is not enough storage space at your target location to store the template you are trying to copy.

Solution

Make sure you have enough storage space at your target location before you attempt a copy operation.

UnknownHostException During Copy Operation

Attempting to copy to a vCloud Director cloud fails with an UnknownHostException.

Problem

You cannot copy content to a vCloud Director cloud.

Cause

If the vCC Node on a vCloud Director cloud is set up with a fixed IP address, the Preferred and Alternate DNS IP addresses must be set up manually. Failure to do so produces an UnknownHostException.

Solution

Contact the vCloud Connector administrator about the issue.

Cannot Access vCC Server from vcloud.vmware.com

The vCloud Connector interface is not available through vcloud.vmware.com.

Problem

You are logged into vcloud.vmware.com but either the vCloud Connector interface is not visible or you cannot add an initial cloud.

Cause

There can be three possible causes to this problem.

- The vCC Server is down.

- When the vCC Server was registered with vcloud.vmware.com, it was configured to use SSL, but the Server does not have a valid certificate.

- You are attempting to access a vCC Server that is behind a firewall.

Solution

Talk to your vCC Server administrator to insure that the Server is running and has a valid certificate. Make sure you are on the same network as the vCC Server or are accessing that network through a VPN.

Managing vCloud Connector Users 3

This information is about how to manage users who share a single vCloud Connector Server through a user interface accessed at vcloud.vmware.com. It covers how to invite users and how to assign them roles.

The administrator of a vCC Server registered with vcloud.vmware.com can invite other users to share the capabilities of that Server. Each user can add his or her own choice of clouds to appear in their vCloud Connector interface. Users are automatically assigned the role of Account Member. An Account Member can be given the role of Account Admin by any other Account Admin. Only Account Admin users can invite other users to join the vCC Server.

■ Invite Users on page 21

To add users to your vCloud Connector, use the Settings screen.

■ Monitor Your Invitations on page 22

Once you invite one or more users, your membership list shows the number of outstanding invitations.

■ Assign Administrator Status on page 22

You can assign administrator status to a user who has accepted your invitation to join your vCloud Connector Server.

Invite Users

To add users to your vCloud Connector, use the Settings screen.

NOTE   Each new user must provide a vmware.com store account username and password. Unless the vCC Server is in a public cloud that is not behind a firewall, the user must either be on the LAN or logged in through a VPN to access the server interface.

Prerequisites

vCloud Connector is open.

Procedure

1   Click **Settings** on the top right of the screen.

The Settings page opens.

2   Click **Invite more people to use this server**.

3   In the Invite others to share your vCloud Connector pop-up window, type the comma-separated list of email addresses for the people you wish to invite to share your Server.

4   Click **Invite**.

Emails with a clickable link are sent to each address in the list.

Monitor Your Invitations

Once you invite one or more users, your membership list shows the number of outstanding invitations.

Prerequisites

vCloud Connector is open to the Settings page.

Procedure

1   Click the number by **Pending**.

The email addresses of the pending invitations are shown. After an invitee opens the email, the invitee name also appears.

Once the invitee accepts the invitation, the **Members** number is incremented and the **Pending** number is decreased.

2   To remove an invitation, click **Remove** after the invitation email address.

Assign Administrator Status

You can assign administrator status to a user who has accepted your invitation to join your vCloud Connector Server.

Prerequisites

vCloud Connector is open to the Settings page. You have invited new users to use your vCC Server and they have accepted.

Procedure

1   In the member list, find the user you wish to make an administrator.

2   Click **make admin** next to the user's email address.

The **Members** number is decreased and the **Admins** number is incremented. User role updated appears surrounded in white at the top of the screen.

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