



Monitoring vCloud Air

Beta Version

VMware: vCloud Air *BETA* PowerPack version 100

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Introduction

Overview

This manual describes how to monitor vCloud Air services in the ScienceLogic platform.

NOTE: ScienceLogic provides this documentation for the convenience of ScienceLogic customers. Some of the configuration information contained herein pertains to third-party vendor software that is subject to change without notice to ScienceLogic. ScienceLogic makes every attempt to maintain accurate technical information and cannot be held responsible for defects or changes in third-party vendor software. There is no written or implied guarantee that information contained herein will work for all third-party variants. See the End User License Agreement (EULA) for more information.

What is vCloud Air?

vCloud Air is a public cloud platform offered by VMware. Built on vSphere, vCloud Air offers a variety of infrastructure-as-a-service (IaaS) features, including virtual private cloud, dedicated cloud, and disaster recovery.

What are vCloud Air Locations?

VMware currently has data centers in the following locations to support vCloud Air:

- Northern California
- Nevada
- Arizona (Gov)
- Texas

- Virginia
- Virginia (Gov)
- New Jersey
- United Kingdom
- Germany
- Japan West
- Australia South

The Dynamic Applications in the VMware: vCloud Air PowerPack create a region component device for each discovered location.

Installing the VMware: vCloud Air *BETA* PowerPack

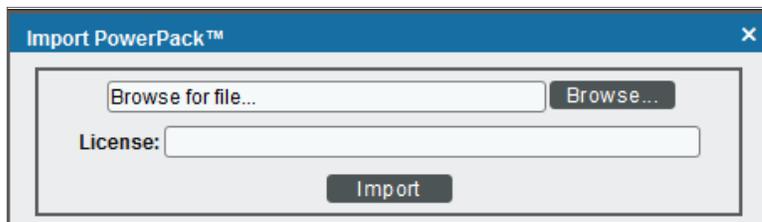
Before completing the steps in this manual, you must import and install version 100 of the VMware: vCloud Air *BETA* PowerPack.

NOTE: To install version 100 of the VMware: vCloud Air *BETA* PowerPack, your ScienceLogic system must be upgraded to the 8.2.0 or later release.

To download and install a PowerPack:

TIP: By default, installing a new version of a PowerPack will overwrite all content in that PowerPack that has already been installed on the target system. You can use the **Enable Selective PowerPack Field Protection** setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent local changes for some commonly customized fields from being overwritten. (For more information, see the **System Administration** manual.)

1. Download the PowerPack from the [ScienceLogic Customer Portal](#).
2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
3. In the **PowerPack Manager** page, click the **[Actions]** button, then select *Import PowerPack*.
4. The **Import PowerPack** dialog box appears:



5. Click the **[Browse]** button and navigate to the PowerPack file.
6. When the **PowerPack Installer** modal page appears, click the **[Install]** button to install the PowerPack.

NOTE: If you exit the **PowerPack Installer** modal page without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPack Manager** page. However, the imported PowerPack will appear in the **Imported PowerPacks** modal page. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

Configuring vCloud Air Monitoring

Overview

This chapter describes how to configure credentials that provide the ScienceLogic platform with access to vCloud Air devices. With this access, the ScienceLogic platform can use the Dynamic Applications in the vCloud Air PowerPacks to collect information from vCloud Air devices.

The following sections describe how to configure the ScienceLogic platform to monitor vCloud Air:

- [Configuring a vCloud Air Credential](#)
- [Creating a vCloud Air Virtual Device](#)
- [Aligning the vCloud Air Dynamic Applications](#)
- [Viewing vCloud Air Component Devices](#)

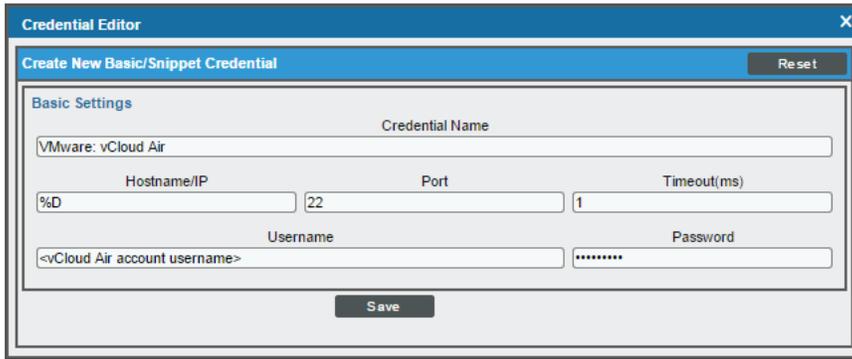
Configuring a vCloud Air Credential

To configure the ScienceLogic platform to monitor vCloud Air, you must first create a Basic/Snippet credential. This credential allows the platform (specifically, the Dynamic Applications in the VMware: vCloud Air PowerPack) to communicate with your vCloud Air account.

To configure a Basic/Snippet credential to access vCloud Air:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Click the **[Actions]** button and select *Create Basic/Snippet Credential* from the menu. The **Create New Basic/Snippet Credential** modal page appears.

3. Enter values in the following fields:



- **Hostname/IP.** Enter "%D".
- **Port.** Enter "22".
- **Timeout.** Enter "1".
- **Username.** Enter your vCloud Air account username.
- **Password.** Enter the password for the vCloud Air account username.

4. Click the **[Save]** button.

Creating a vCloud Air Virtual Device

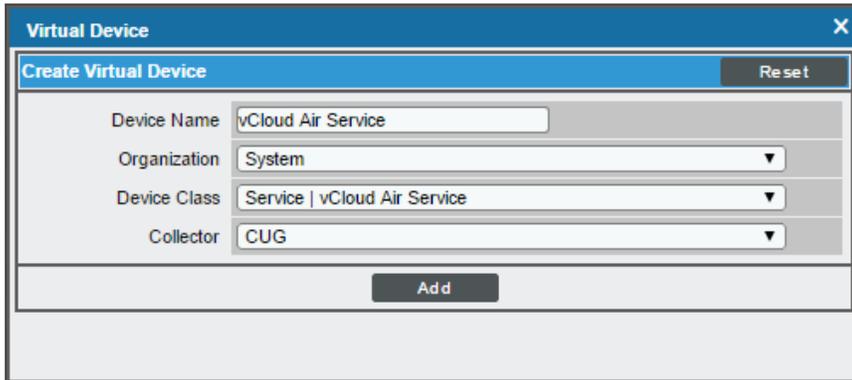
Because the vCloud Air service does not have an IP address, you cannot discover a vCloud Air device using discovery. Instead, you must create a **virtual device** that represents the root device for the vCloud Air service. A virtual device is a user-defined container that represents a device or service that cannot be discovered by the ScienceLogic platform. You can use the virtual device to store information gathered by policies or Dynamic Applications.

TIP: If you have multiple vCloud Air subscriptions you want to monitor, you should create a separate virtual root device for each.

To create a virtual device that represents your vCloud Air service:

1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
2. Select the **[Actions]** button and select *Create Virtual Device* from the menu. The **Virtual Device** modal page appears.

3. Enter values in the following fields:



The screenshot shows a 'Virtual Device' dialog box with a 'Create Virtual Device' sub-dialog. The sub-dialog has a 'Reset' button in the top right corner. It contains four input fields: 'Device Name' with the text 'vCloud Air Service', 'Organization' with a dropdown menu showing 'System', 'Device Class' with a dropdown menu showing 'Service | vCloud Air Service', and 'Collector' with a dropdown menu showing 'CUG'. At the bottom of the sub-dialog is an 'Add' button.

- **Device Name.** Enter a name for the device. For example, you could enter "vCloud Air Service" in this field.
- **Organization.** Select the organization for this device. The organization you associate with the device limits the users that will be able to view and edit the device. Typically, only members of the organization will be able to view and edit the device.
- **Device Class.** Select *Service | vCloud Air Service*.
- **Collector.** Select the collector group that will monitor the device.

4. Select the **[Add]** button to create the virtual device.

Aligning the vCloud Air Dynamic Applications

There are two types of Dynamic Applications included in the VMware: vCloud Air PowerPack:

- **Discovery.** These Dynamic Applications poll vCloud Air for new instances of services or changes to existing instances of services.
- **Configuration.** These Dynamic Applications retrieve configuration information about each service instance and retrieve any changes to that configuration information.

When configuring the ScienceLogic platform to monitor vCloud Air services, you can manually align Dynamic Applications to discover any vCloud Air component devices.

Discovering vCloud Air Component Devices

To discover all of the components of your vCloud Air platform, you must manually align the *VMware: vCloud Air Region Discovery* Dynamic Application with the vCloud Air virtual device.

When you align the *VMware: vCloud Air Region Discovery* Dynamic Application with the vCloud Air virtual device, the Dynamic Application creates a component device representing the vCloud Air account and child component devices for each location used by the vCloud Air account.

Under each region, the ScienceLogic platform then discovers the following component devices:

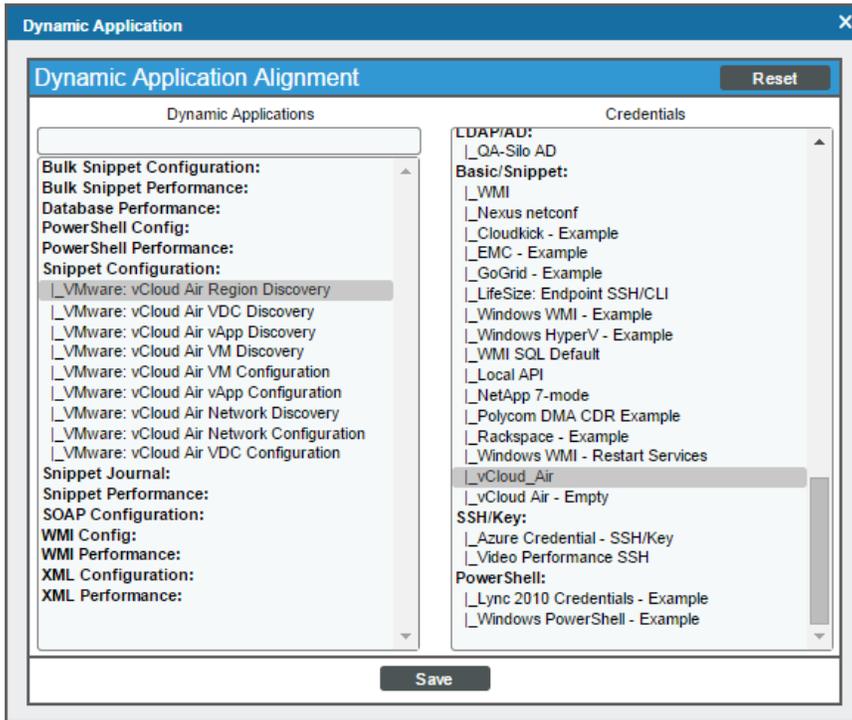
- Virtual Data Centers
 - Virtual Network services
 - Virtual App services
 - Virtual Machines

NOTE: Virtual machines are not the same as virtual devices in the ScienceLogic platform. A virtual machine is a non-physical computer that runs an operating system and applications; a virtual device is a container for collected data.

To align the *VMware: vCloud Air Region Discovery* Dynamic Application to your vCloud Air virtual device, perform the following steps:

1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
2. Select the wrench icon () for your vCloud Air virtual device.
3. In the **Device Administration** panel, select the **[Collections]** tab. The **Dynamic Application Collections** page appears.
4. Select the **[Action]** button and select *Add Dynamic Application* from the menu.

- In the **Dynamic Application Alignment** modal page:



- In the **Dynamic Applications** field, select the *VMware: vCloud Air Region Discovery* Dynamic Application.
- In the **Credentials** field, select the *credential you created for your vCloud Air service*.

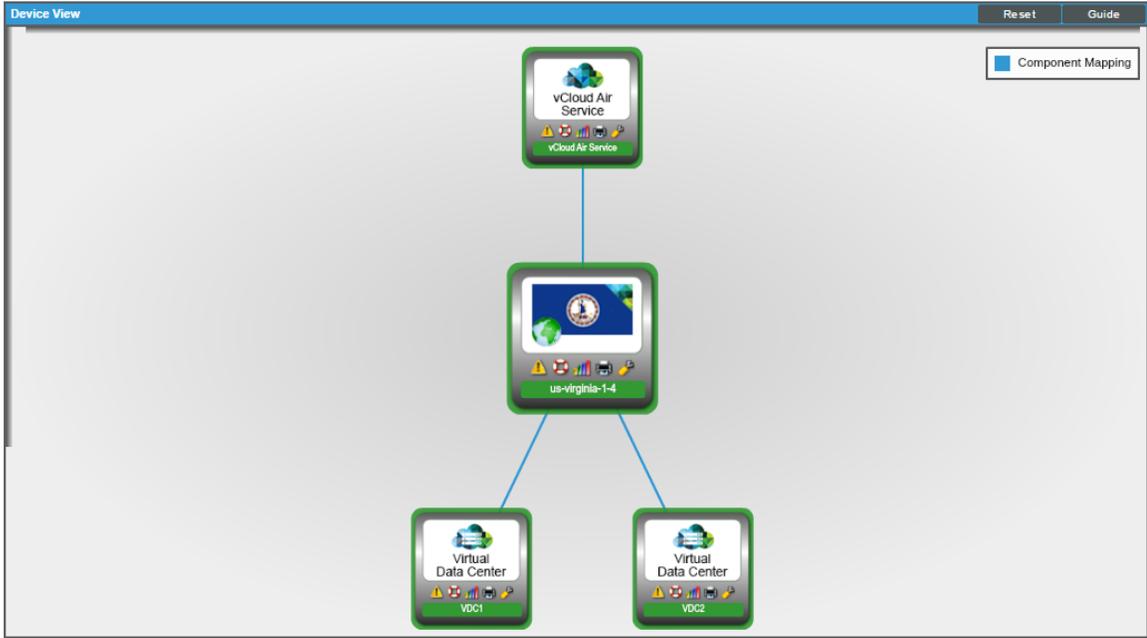
- Select the [**Save**] button to align the Dynamic Application with the vCloud Air virtual device.

Viewing vCloud Air Component Devices

When the ScienceLogic platform performs collection for the vCloud Air virtual device, the platform will create component devices that represent each virtual data center in your vCloud Air infrastructure and align other Dynamic Applications to those component devices. Some of the Dynamic Applications aligned to the component devices will also be used to create additional component devices. All component devices appear in the **Device Manager** page just like devices discovered using the ScienceLogic discovery process.

In addition to the **Device Manager** page, you can view the vCloud Air service and all associated component devices in the following places in the user interface:

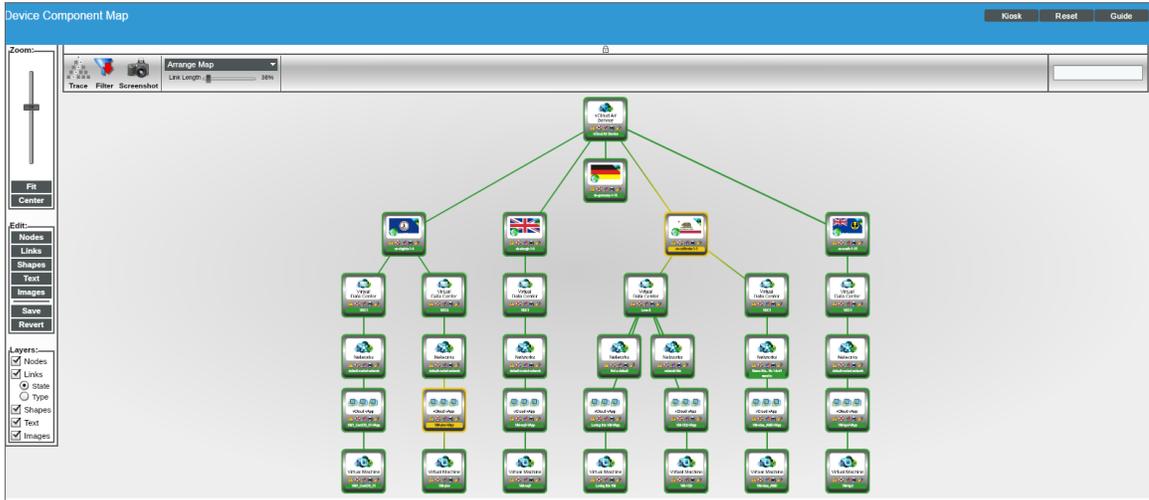
- The **Device View** modal page (select the bar-graph icon  for a device, then select the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:



- The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by the ScienceLogic platform in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices associated with a vCloud Air service, find the vCloud Air virtual device and select its plus icon (+):

Device Components Devices Found [1]												Actions	Reset	Guide
Device Name	IP Address	Device Category	Device Class Sub-class	DID	Organization	Current State	Collection Group	Collection State						
1. - vCloud Air Service	--	Cloud	Service vCloud Air Service	1	System	Healthy	CUG	Active						
1. - au-south-1-15	--	Region	Region.AU vCloud Air Region	8	System	Healthy	CUG	Active						
1. - VDC1	--	Infrastructure	VDC vCloud Air VDC	12	System	Healthy	CUG	Active						
1. - default-routed-network	--	Infrastructure	Network vCloud Air Network	28	System	Healthy	CUG	Active						
2. - VM-tgpt-VApp	--	Infrastructure	vApp vCloud Air Virtual App	23	System	Healthy	CUG	Active						
1. - VM-tgpt	--	Virtual	VM vCloud Air VM	32	System	Healthy	CUG	Active						
2. - de-germany-1-16	--	Region	Region.Germany vCloud Air Region	5	System	Healthy	CUG	Active						
3. - uk-south-1-6	--	Region	Region.UK vCloud Air Region	3	System	Healthy	CUG	Active						
1. - VDC1	--	Infrastructure	VDC vCloud Air VDC	7	System	Healthy	CUG	Active						
1. - default-routed-network	--	Infrastructure	Network vCloud Air Network	14	System	Healthy	CUG	Active						
2. - VM-rsq5-VApp	--	Infrastructure	vApp vCloud Air Virtual App	13	System	Healthy	CUG	Active						
1. - VM-rsq5	--	Virtual	VM vCloud Air VM	29	System	Healthy	CUG	Active						
4. + us-california-1-3	--	Region	Region.CA vCloud Air Region	4	System	Healthy	CUG	Active						
5. + us-virginia-1-4	--	Region	Region.VA vCloud Air Region	2	System	Healthy	CUG	Active						

- The **Component Map** page (Views > Device Maps > Components) allows you to view devices by root node and view the relationships between root nodes, parent components, and child components in a map. This makes it easy to visualize and manage root nodes and their components. The ScienceLogic platform automatically updates the **Component Map** as new component devices are discovered. The platform also updates each map with the latest status and event information. To view the map for a vCloud Air service, go to the **Component Map** page and select the map from the list in the left NavBar. To learn more about the **Component Map** page, see the **Views** manual.



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