

Veritas CloudPoint™ Quick Start Guide for Microsoft Azure

What is CloudPoint?

CloudPoint is a lightweight, snapshot-based data protection solution for public clouds and modern data centers. With Release 2.0, CloudPoint introduces important new data protection and orchestration capabilities needed by customers in the cloud and aligns closely with Veritas' multi-cloud data management strategy.

Veritas CloudPoint is purposely built for the data center and multi-cloud. It delivers:

- Native, multi-cloud data protection
- Streamline and automate snapshots
- Application consistent snapshots
- Faster recovery with finer controls
- Modular architecture for rapid workload integration

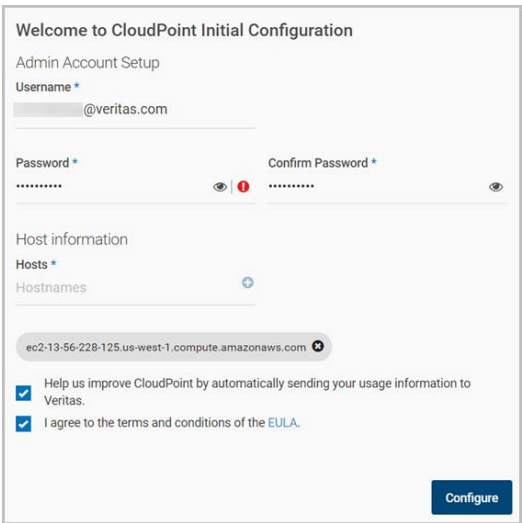
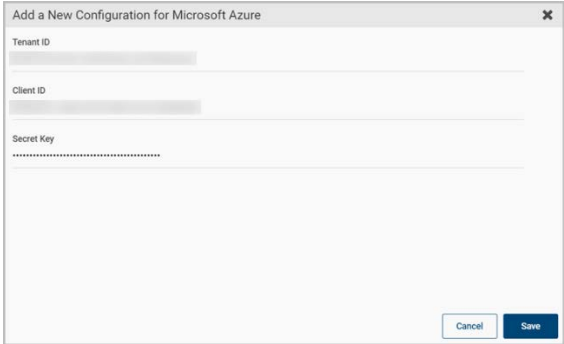
KEY FEATURES

- Snapshot-based data protection
- Automated scheduling and creation
- Multi-cloud visibility and orchestration
- Auto-deletion of expired snapshots
- Fast RPO and RTO
- Deep integration with storage arrays, and public and private cloud platforms
- Modular architecture for rapid workload proliferation
- Intuitive interface and reporting
- RESTful APIs for storage management and administration

Prepare for installation

<h3>1 Meet system requirements</h3> <p>Operating system Ubuntu 16.04 LTS</p> <p>Virtual machine D2S_V3 Standard</p> <p>Virtual CPUs 2</p> <p>RAM 8 GB</p> <p>Root disk 30 GB solid-state drive (SSD)</p> <p>Data volume Data volume: 50 GB Premium SSD for the snapshot asset database; storage account type Premium_LRS; set Host Caching to Read/Write.</p>	<h3>2 Create a volume and file system for CloudPoint data</h3> <ol style="list-style-type: none"> 1 Create a new disk and attach it to the virtual machine. https://docs.microsoft.com/en-us/azure/virtual-machines/linux/attach-disk-portal 2 Choose the managed disk option. https://docs.microsoft.com/en-us/azure/virtual-machines/linux/attach-disk-portal#use-azure-managed-disks 3 Initialize the disk and mount it to /cloudpoint. For details, see the section "Connect to the Linux VM to mount the new disk" in the following link: https://docs.microsoft.com/en-us/azure/virtual-machines/linux/add-disk 	<h3>3 Gather Microsoft Azure configuration information</h3> <p>Before you configure the Azure plug-in, complete the following preparatory steps:</p> <ul style="list-style-type: none"> ▪ Use the Microsoft Azure Portal to create an Azure Active Directory (AAD) application for the Azure plug-in. ▪ Assign the service principal to a role to access resources. <p>For more details, follow the steps in the following Azure documentation: https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-create-service-principal-portal</p> <p>Before you install CloudPoint, have the following information ready:</p> <table border="1"> <thead> <tr> <th>CloudPoint term</th> <th>Microsoft term/description</th> </tr> </thead> <tbody> <tr> <td>Tenant ID</td> <td>The ID of the AAD directory in which you created the application.</td> </tr> <tr> <td>Client ID</td> <td>The application ID.</td> </tr> <tr> <td>Secret ID</td> <td>The secret key of the application.</td> </tr> </tbody> </table>	CloudPoint term	Microsoft term/description	Tenant ID	The ID of the AAD directory in which you created the application.	Client ID	The application ID.	Secret ID	The secret key of the application.
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Install CloudPoint

<h3>1 Deploy CloudPoint</h3> <ol style="list-style-type: none"> 1 Create the instance or prepare the physical host to install CloudPoint. <ul style="list-style-type: none"> ▪ Choose an Ubuntu 16.04 Server LTS instance image that meets CloudPoint installation requirements. ▪ Add sufficient storage to the instance to meet the installation requirements. 2 Install Docker for Ubuntu. # sudo apt-get install docker -ce https://docs.docker.com/install/linux/docker-ce/ubuntu/ 3 Download the CloudPoint image from MyVeritas. 4 Load the image. # sudo docker load -i /install_directory/cloudpoint_image 5 On the instance, open the following ports: <ul style="list-style-type: none"> 443 CloudPoint user interface uses this port as the default HTTPS port. 5671 The RabbitMQ server uses this port for communications. This port must be open to support multiple agents. 6 Run the CloudPoint container. # sudo docker run -it --rm -v /volume_name:/path_to_volume -v /var/run/docker.sock:/var/run/docker.sock veritas/cloudpoint_image install --restart always 	<h3>2 Configure CloudPoint</h3> <ol style="list-style-type: none"> 1 Open your browser and point it to the host on which CloudPoint is installed. https://ubuntu_docker_host_name The configuration screen is displayed and the host name is added to the list of hosts on which to configure CloudPoint.  2 Enter a valid email address for the admin user name and enter a password. Click Configure. 3 On the sign in screen, enter your admin user name and password. 	<h3>3 Configure the Microsoft Azure plug-in</h3> <ol style="list-style-type: none"> 1 On the coffee screen, click Manage clouds and arrays. 2 On the Clouds and Arrays page, click on the Microsoft Azure row. 3 On the Details page, click Add configuration. 4 On the Add a New Configuration for Microsoft Azure page, enter the Tenant ID, Client ID, and Secret Key.  5 Click Save.
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Protect an asset

1 Create a protection policy

- 1 On the CloudPoint dashboard, in the **Administration** area, find **Policies**, and click **Manage**.
- 2 On the Policies page, click **New Policy**.
- 3 Complete the **New Policy** page.

Enter the following:

Policy Information

- Policy Name** Enter lower case letters, numbers, and hyphens. The name should begin and end with a letter.
- Description** Summarize what the snapshot does. (Optional)
- Storage Level** Select disk, host, or application. (An application snapshot requires the CloudPoint Enterprise license.)
- Application Consistent** Whether you take an application consistent snapshot or a crash-consistent snapshot. An application-consistent snapshot is recommended for taking snapshots of database applications. (An application consistent snapshot requires the CloudPoint Enterprise license.)
- Enable replication** Select this check box if you want to copy snapshots to another physical location for added protection.

Retention Specify the number of snapshot versions to keep for each asset associated with this policy.

Scheduling Select how often a snapshot is taken: hourly, daily, weekly, or monthly. Depending on your choice, also specify the time (by clicking the clock icon), the date, or the day of the week.

The following example creates a weekly disk level snapshot policy.

- 4 Click **Save**.

2 Assign an asset to a policy

- 1 On the CloudPoint dashboard, in the **Environment** area, find the asset type you want to protect, and click **Manage**. This example protects an application.
- 2 On the **Asset Management** page, select the asset you want to protect.
- 3 On the **Details** page, click **Policies**.

- 4 On the **Policies for asset name** screen assign one or more policies to the asset. In the **Available Policies** column, click the policy you want to assign. Repeat this step for as many policies as you want to add.

- 5 When you are done assigning policies, click **Save**.