Veritas CloudPoint™ Quick Start Guide for Google Cloud Platform (GCP)

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

1 Meet system requirements

Operating system	Ubuntu 16.04 LTS
Virtual machine	n1-standard-2
Virtual CPUs	2
RAM	8 GB
Boot disk	30 GB standard persistent disk
Data volume	50 GB SSD persistent disk for the snapshot asset database with automatic encryption

2 Create a volume and file system for CloudPoint data

1. Create the disk for the virtual machine, initialize it, and mount it to **/cloudpoint**.

   https://cloud.google.com/compute/docs/disks/add-persistent-disk

3 Gather GCP configuration information

Before you install CloudPoint, have the following information ready:

CloudPoint term	GCP term/description
Project Id	The ID of the project from which the resources are managed.
client Id	The Client ID that is used for operations.
client Email	The email address of the client Id.
Private Key Id	The ID of the private key.
Private Key	The private key.
	You must enter this key without quotes (neither single quotes nor double quotes). Do not enter any spaces or return characters at the beginning or end of the key.
Zones	List of zones in which the plug-in operates

Install CloudPoint

1 Deploy CloudPoint

1. Create the instance or prepare the physical host to install CloudPoint.

   - 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 –l /install_directory/cloudpoint_image

5. On the instance, open the following ports:

   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.
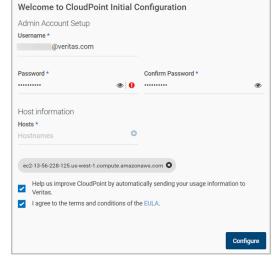
6. Run the CloudPoint container.

   # sudo docker 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

2 Configure CloudPoint

1. Open your browser and point it to the host on which CloudPoint is installed.
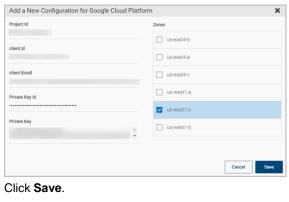
   https://ubuntu_docker_host_name

   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.

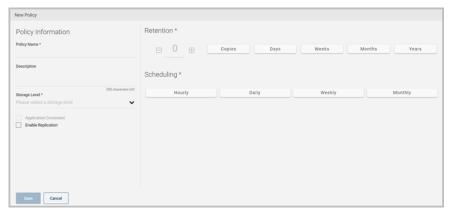### 3 Configure the GCP plug-in

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 Google Cloud Platform** page, enter the **Project ID**, **client ID**, client Email, Private Key Id, Private Key, and Zones.

5. Click **Save**.

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.

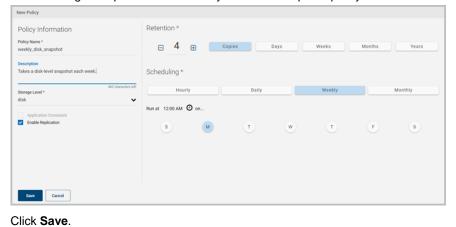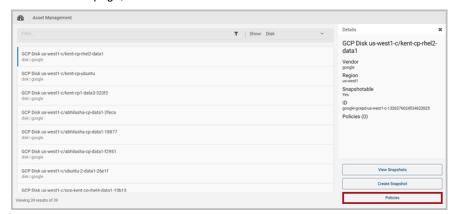|	
Retention	Specify the number of snapshot versions to keep for each asset associated with this policy.
Scheduling	Select how often a snapshot is taken: hourly, daily, weekly, or monthly. Depending on your choice, also specify the time (by clicking the clock icon), the date, or the day of the week.

The following example creates a weekly disk level snapshot policy.
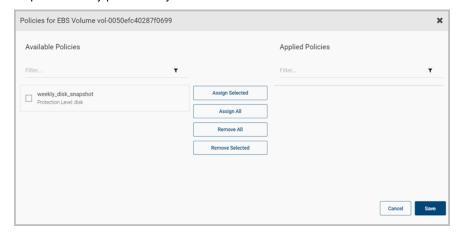

4. Click **Save**.

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**.

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