# Veritas CloudPoint<sup>™</sup> 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. CloudPoint introduces important new data protection and orchestration capabilities needed 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
- н. 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		<b>3</b> Gather GCP configuration information To use CloudPoint for managing assets in Google	Keep the following information ready, these details are required for configuring the CloudPoint plug-in for GCP:	
Operating system	Ubuntu 16.04LTS, RHEL 7.5	Cloud Platform (GCP), you will need the following:	CloudPoint term	GCP term/description
Virtual machine	n1-standard-2	A service account in GCP	Project ID	The ID of the project from which the
Virtual CPUs	2	The credentials file that contains the key-		resources are managed.
RAM	8 GB	value pairs of service account keys that are	Client ID	The Client ID that is used for
Boot disk	30 GB standard persistent disk	used to authenticate to Google.		operations.
Data volume	50 GB SSD persistent disk for the	The contents of this file are required while configuring the CloudPoint plug-in for GCP.	Client Email	The email address of the client ID.
	snapshot asset database with		Private Key ID	The ID of the private key.
	automatic encryption	Refer to the following GCP documentation for details:	Private Key	The private key.
<ul> <li>2 Create a volume and file system for CloudPoint data</li> <li>Create the disk for the virtual machine, initialize it,</li> </ul>		https://cloud.google.com/compute/docs/access/servic       e-accounts         https://cloud.google.com/iam/docs/understanding-service-accounts       e-accounts         https://cloud.google.com/iam/docs/understanding-service-accounts       e-accounts		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.
and mount it to <u>https://cloud.google.</u> persistent-disk	/cloudpoint. com/compute/docs/disks/add-	https://cloud.google.com/iam/docs/creating-managing- service-accounts	Zones	List of zones in which the plug-in operates

## **Install CloudPoint**

ee/

1 Deploy CloudPoint	2 Configure C
1. Create the instance or prepare the physical host to install CloudPoint.	1. Open a brov CloudPoint i
<ul> <li>Choose an OS instance image that meets CloudPoint installation requirements.</li> </ul>	https://c Here, <i>cloud</i>
<ul> <li>Add sufficient storage to the instance to meet the installation requirements.</li> </ul>	Domain Nar
2. Install Docker.	The configu
Ubuntu: https://docs.docker.com/install/linux/docker- ce/ubuntu/	Welcome to Cle Admin Account S
RHEL: https://docs.docker.com/install/linux/docker-	Username * @verita

On RHEL, enable shared mounts. In docker.service system unit file, change parameter MountFlags=slave to

### CloudPoint

- wser and point it to the host on which is installed.
  - cloudpoint\_hostFQDN

point\_hostFQDN is the Fully Qualified me of the host.

ration screen is displayed.

Admin Account Setup			
Username *			
@veritas.com			
Password *		Confirm Password *	
	(1)	•••••	
Host information			
Hosts *			
Hostnames	0		
ec2-13-56-228-125.us-west-	1.compute.amazor	naws.com 🖸	
<ul> <li>Help us improve Cloud Veritas.</li> </ul>	Point by automati	ically sending your usage information to	
<ul> <li>I agree to the terms an</li> </ul>	d conditions of th	o EULA	

### **3** Configure the GCP plug-in

- On the coffee screen, click Manage clouds and 1. arrays.
- 2. On the Clouds and Arrays page, click on the Google Cloud Platform row.
- On the Details page, click Add configuration. 3.
- 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 select the Zones.

Project Id	Zones	
	us-east4-b	
client Id	us-east4-a	
client Email	us-east4-c	
Private Key Id	us-west1-a	
	us-west1-c	
Private Key	us-west1-b	

MountFlags=shared.

Download the CloudPoint image on the host.

You can use the free edition or purchase a licensed version. Refer to the following:

https://www.veritas.com/product/backup-andrecovery/cloudpoint/buy

- 4. Load the image.
  - # sudo docker load -i

/<install directory>/<cloudpoint image>

- On the instance, open the following ports: 5.
  - CloudPoint user interface uses this port as 443 the default HTTPS port.
  - 5671 The RabbitMQ server uses this port for communications. This port must be open to support multiple agents.
- Run the CloudPoint container. 6.

# sudo docker docker run -it -rm -v /fullpath\_volume\_name:/fullpath\_to\_volume\_name -v /var/run/docker.sock:/var/run/docker.sock veritas/flexsnap-cloudpoint:<version> install

Here, <version> represents the CloudPoint version.

- Enter a valid email address for the CloudPoint 2. administrator user name and enter a password.
- 3. Enter any additional host names that are used to connect to the CloudPoint host.

CloudPoint uses the specified host names to generate a server certificate for authentication. The name (CloudPoint host FQDN) that you used to launch the initial configuration screen earlier is added to the list by default.

4. Click Configure.

5. On the sign in screen, enter the admin user name and password that you specified earlier.

5. Click Save.

Configure

## 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.

olicy Information	Retention *				
olicy Name *	⊜ 0 ⊞ _	Copies Days	Weeks	Months	Years
escription	Scheduling *				
soo o lorage Level * loase select a storage level	Hourity	Daily	Weekly		Monthly
Application Consistent Enable Replication					

### 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 Cons	sistent
	Whether you take an application consistent snapshot or a

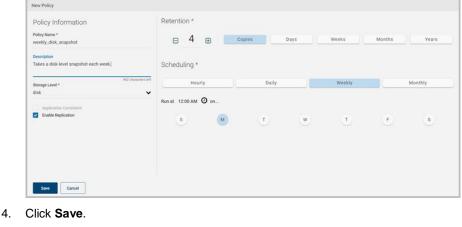
crash-consistent snapshot. An application-consistent snapshot is recommended for taking snapshots of database applications. (An application consistent snapshot requires the CloudPoint Enterprise license.)

### 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.
- Select how often a snapshot is taken: hourly, daily, weekly, or Scheduling 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.



## 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.

	T Show: Disk	U Details
CCP Disk us weet1-c/kert-cp-thet2-data1 disk1 google CCP Disk us weet1-c/kert-cp-ubuntu disk1 google CCP Disk us weet1-c/kert-cp1-data3-323f2 disk1 google CCP Disk us weet1-c/kert-cp1-data3-323f2 disk1 google CCP Disk us weet1-c/kert-lash4/kert-cp-data1-2feca disk1 google CCP Disk us weet1-c/kert-lash4/kert-cp-data1-12857 disk1 google		GCP Disk us-west1-c/kent-cp-rhel2 data1 Vendor seege Region sweet Snapahotable Yes ID googlegeged us-west1-o-126376024534622825 Policies (0)
GCP Disk us-west1-c/ubuntu-2-data1-26e1f disk i google		View Snapshots
GCP Disk us-west1-c/oco-keet-co-rhel4-data1-13b13		Create Snapshot
DCP DISK US WEST FC/ DCD RENT CD TREAF Data 11/3 D1 3		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.

licies for EBS Volume vol-0050efc40			
vailable Policies		Applied Policies	
ilter	T	Filter	т
weekly_disk_snapshot Protection Level disk	Assign Selected		
Protection Level disk	Assign All	]	
	Remove All	]	
	Remove Selected	Ĩ	

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



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