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. 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
- ÷. 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 re	equirements	3 Gather GCP configuration information To use CloudPoint for managing assets in Google	Keep the following i details are required CloudPoint plug-in t	
Operating system	Ubuntu 16.04LTS, RHEL 7.x	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 Email	The email address of the client ID.
Boot disk	64 GB standard persistent disk	used to authenticate to Google. The contents of this file are required while	Private Key	The private key.
Data volume 2 Create a volum	50 GB SSD persistent disk for the snapshot asset database with automatic encryption	configuring the CloudPoint plug-in for GCP. Refer to the following GCP documentation for details: https://cloud.google.com/compute/docs/access/servic 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.
data		https://cloud.google.com/iam/docs/understanding- service-accounts	Zones	List of zones in which the plug-in operates
 Create the disk and mount it to 	for the virtual machine, initialize it, /cloudpoint.	https://cloud.google.com/iam/docs/creating-managing- service-accounts		
https://cloud.google. persistent-disk	com/compute/docs/disks/add-			

Install CloudPoint

1 Deploy CloudPoint	2 Configure CloudPo
1. Create the instance or prepare the physical host to install CloudPoint.	1. Open a browser and CloudPoint is installe
Choose an OS instance image that meets	https://cloudpo
CloudPoint installation requirements.	Here, cloudpoint_ho
 Add sufficient storage to the instance to meet the installation requirements. 	Domain Name of the
2. Install Docker.	The configuration sc
Ubuntu: https://docs.docker.com/install/linux/docker- ce/ubuntu/	Welcome to CloudPoint [™] Initial C Admin Account Setup
RHEL: https://docs.docker.com/install/linux/docker- ee/rhel/#prerequisites	UserName Password
	Pasawuru

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

int

- point it to the host on which ed.
 - int_hostFQDN

stFQDN is the Fully Qualified e host.

reen is displayed.

Admin Account Se	etup	
Username *		
User Name		
Password *		Confirm Password *
Password	@ 0	Confirm password
Host names or IP	0 0	
0.0.0.0 S	00	
0.0.0.0 Select Your License		ise key anytime after login
0.0.0.0 Select Your License * Upgrade to a paid versio		se key anytime after login O Evaluation 60 day trial with all features up to 1000 FETB

3 Configure the GCP plug-in

- On the coffee screen, click Manage clouds and 1. arrays.
- On the Clouds and Arrays page, click on the 2. Google Cloud Platform row.
- On the Details page, click Add configuration. 3.
- On the Add a New Configuration for Google 4. Cloud Platform page, enter the Project ID, Client Email, Private Key and select the Zones.

Add a New Configuration for Google Cloud Platform	n	×
Project ID	Zones	
	asia-east1-a	
Client Email	asia-east1-b	
Cirent Effait	asia-east1-c	
	asia-east2-a	
Private Key	asia-east2-b	
	asia-east2-c	
	asia-northeast1-a	
	asia-northeast1-b	
	asia-northeast1-c	
	Cancel Sa	ve

MountFlags=shared.

3. 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.
 - 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.
- Run the CloudPoint container. 6.

sudo 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.
- Enter any additional host names that are used to 3. 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.

- Select a CloudPoint license that you wish to install. 4.
- 5. Click Configure.
- 6. On the sign in screen, enter the admin user name and password that you specified earlier.

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.

New Policy				
Policy Information	Retention *	Copies Days	Weeks	Months Years
Description	Scheduling *			
Storage Level * Please select a storage level	characters left Hourily	Daily	Weekly	Monthly
Application Consistent Enable Replication				
Cancel				

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.

New Policy				
Policy Information	Retention *			
Policy Name * weekly_disk_snapshot	□ 4 ⊕ 💽	opies Days	Weeks	Months Years
Description Takes a disk-level snapshot each week	Scheduling *			
Ali2 characters left Storage Level * disk V	Hourly	Daily	Weekly	Monthly
Application Consistent	Run at 12:00 AM 🥝 on			
Enable Replication	s M	•	(w	(F) (S)
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.

	T Show: Disk	~	Details
GCP Disk us-west1-c/kent-cp-thet2-data1 GCP Disk us-west1-c/kent-cp-ubuntu dia1 googie GCP Disk us-west1-c/kent-cp1-data3-32312 dia1 googie GCP Disk us-west1-c/kent-cp1-data3-32312 dia1 googie GCP Disk us-west1-c/kent/sp1-data3-32312 dia1 googie GCP Disk us-west1-c/kentisshe-cp-data1-2feca dia1 googie			GCP Disk us-west1-cr/kent-cp-rhei2- data1 Vendor songin Region went1 Snapshotable Ye Diggeographicewest1-o-126376024534622855 Policies (0)
GCP Disk us-west1-c/ubuntu-2-data1-26e1f disk1.google			View Snapshots
GCP Disk us-west1-c/cco-kent-co-thel4-data1-13b13			Create Snapshot
wing 39 results of 39			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-0050efc	40287f0699		>
Available Policies		Applied Policies	
ilter	T	Filter	т
weekly_disk_snapshot Protection Level disk	Assign Selected		
	Assign All]	
	Remove All]	
	Remove Selected		

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



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