Veritas CloudPoint™ Quick Start Guide for Amazon Web Services (AWS)

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 automated 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 Verify system requirements

Operating system Ubuntu 16.04 LTS, RHEL 7.x Virtual machine Elastic Compute Cloud (EC2) instance type: t2.large

Virtual CPUs 2 RAM: 8 GB

Root disk 64 GB with a solid-state drive

(GP2)

50 GB Elastic Block Store (EBS) Data volume

volume of type GP2 with encryption for the snapshot asset

database

Use this as a starting value and expand your storage as needed.

$oldsymbol{2}$ Create a volume and a file system for the CloudPoint data

- On the EC2 dashboard, click Volumes > Create
- Follow the instructions on the screen and specify the following:
 - Volume type: General Purpose SSD
 - Size: 50 GB

de/ebs- using-volumes.html

Create a file system and mount the device to /cloudpoint on the instance host.

Refer to the instructions available here: http://docs.aws.amazon.com/AWSEC2/latest/UserGui

3 Verify AWS permissions and get keys

The Amazon Web Services (AWS) plug-in lets you create, restore, and delete snapshots of the following assets in an Amazon cloud:

- Elastic Compute Cloud (EC2) instances
- Elastic Block Store (EBS) volumes
- **RDS** instances
- Aurora clusters

Note: The following privileges are required to use this plug-in:

- AmazonEC2FullAccess
- AmazonRDSFullAccess

Before you install CloudPoint, have the following information ready:

Access key The access key ID, when

> specified with the secret access key, authorizes CloudPoint to interact with the AWS APIs.

Secret key The secret key.

One or more AWS regions in Regions which to discover cloud assets.

Install CloudPoint

1 Deploy CloudPoint

- Create an instance or prepare the physical host to install CloudPoint.
 - Choose an OS instance image that meets CloudPoint installation requirements.
 - Add sufficient storage to the instance to meet the installation requirements.
- 2. Install Docker.

Ubuntu: https://docs.docker.com/install/linux/dockerce/ubuntu/

RHEL: https://docs.docker.com/install/linux/dockeree/rhel/#prerequisites

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

- Load the image.
 - # sudo docker load -i /<install_directory>/<cloudpoint_image>
- On the instance, open the following ports:
 - CloudPoint user interface uses this port as the default HTTPS port.
 - 5671 The RabbitMQ server uses this port for communications. This port must be opened to support multiple agents.
- Run the CloudPoint container.

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.

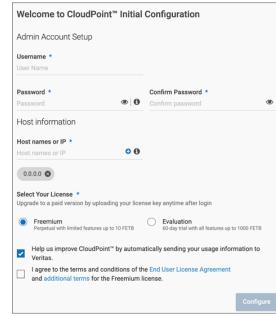
2 Configure CloudPoint

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

https://cloudpoint_hostFQDN

Here, cloudpoint_hostFQDN is the Fully Qualified Domain Name of the host.

The configuration screen is displayed.



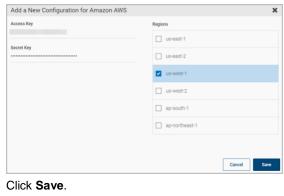
- 2. Enter a valid email address for the CloudPoint administrator user name and enter a password.
- Enter any additional host names that are used to connect to the CloudPoint host.

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.

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

3 Configure the AWS plug-in

- 1. On the coffee screen, click Manage clouds and arrays.
- On the Clouds and Arrays page, click on the Amazon AWS row.
- 3. On the *Details* page, click **Add configuration**.
- On the Add a New Configuration for Amazon AWS page, enter the Access Key, Secret Key, and one or more Regions.

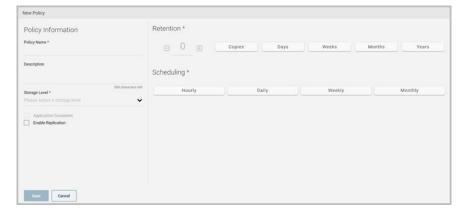


5. Click Save.

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 a CloudPoint Enterprise license.)

Application Consistent Specify whether to 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 a CloudPoint Enterprise license.)

Enable replication Select this check box if you want to copy snapshots to another

physical location for added protection.

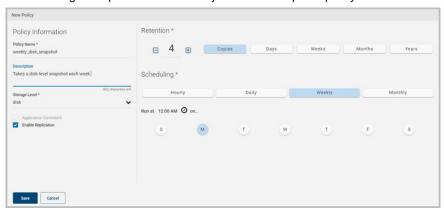
Retention Specify the number of snapshot versions to keep for each

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.

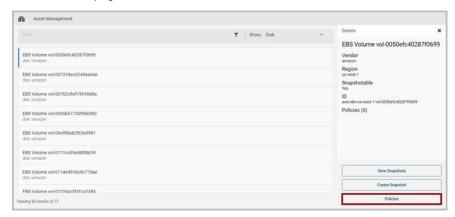
The following example creates a weekly disk level snapshot policy.



4. Click Save.

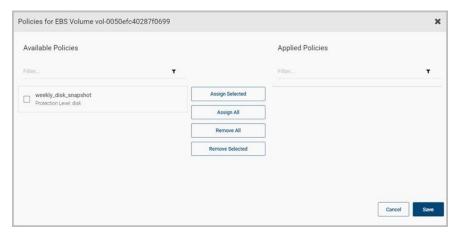
2 Assign an asset to a policy

- 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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