Veritas CloudPoint™ QuickStart 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. Beginning with release 2.0, 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
Virtual machine	Elastic Compute Cloud (EC2) instance type: t3.large
Virtual CPUs	2
RAM:	8 GB
Root disk	30 GB with a solid-state drive (GP2)
Data volume	50 GB Elastic Block Store (EBS) volume of type GP2 with encryption for the snapshot asset database Use this as a starting value and expand your storage as needed.

2 Create a volume and a file system for the CloudPoint data

1 On the EC2 dashboard, click **Volumes > Create Volumes**.

2 Follow the instructions on the screen and specify the following:

- Volume type: General Purpose SSD
- Size: 50 GB

3 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/UserGuide/ebs- using-volumes.html

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

Install CloudPoint

1 Deploy CloudPoint

1 Create an 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 –I
/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 opened to support multiple agents.

6 Run the CloudPoint container.

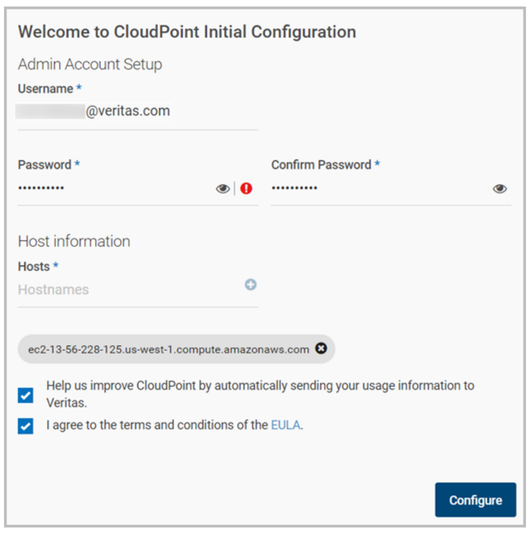
```
# sudo docker docker run -it --rm -v
/volume_name:/path_to_volume -v
/var/run/docker.sock:/var/run
/docker.sock
veritas/cloudpoint_image
install --restart always
```

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.



Welcome to CloudPoint Initial Configuration

Admin Account Setup

Username *
[redacted]@veritas.com

Password *
•••••••••••

Confirm Password *
•••••••••••

Host information

Hosts *
Hostnames

ec2-13-56-228-125.us-west-1.compute.amazonaws.com

☑ Help us improve CloudPoint by automatically sending your usage information to Veritas.

☑ I agree to the terms and conditions of the EULA.

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.

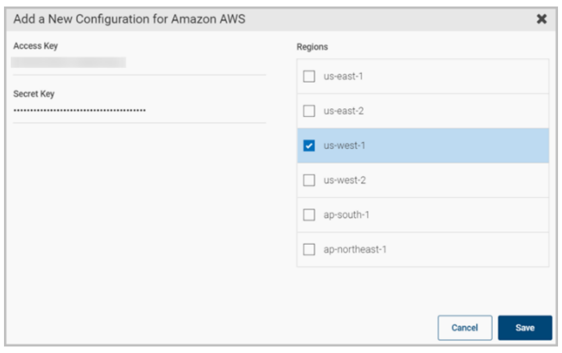
3 Configure the AWS plug-in

1 On the coffee screen, click **Manage clouds and arrays**.

2 On the **Clouds and Arrays** page, click on the Amazon AWS row.

3 On the Details page, click **Add configuration**.

4 On the **Add a New Configuration for Amazon AWS** page, enter the **Access Key**, **Secret Key**, and one or more **Regions**.



Add a New Configuration for Amazon AWS

Access Key
[redacted]

Secret Key
••

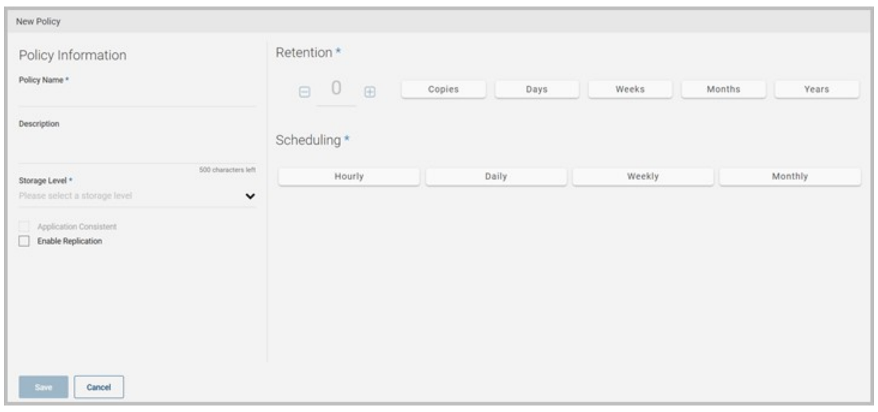
Regions
☐ us-east-1
☐ us-east-2
☑ us-west-1
☐ us-west-2
☐ ap-south-1
☐ ap-northeast-1

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

Policy Name *

Description

500 characters left

Storage Level *

Please select a storage level

□ Application Consistent

□ Enable Replication

Retention *

0

Scheduling *

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.

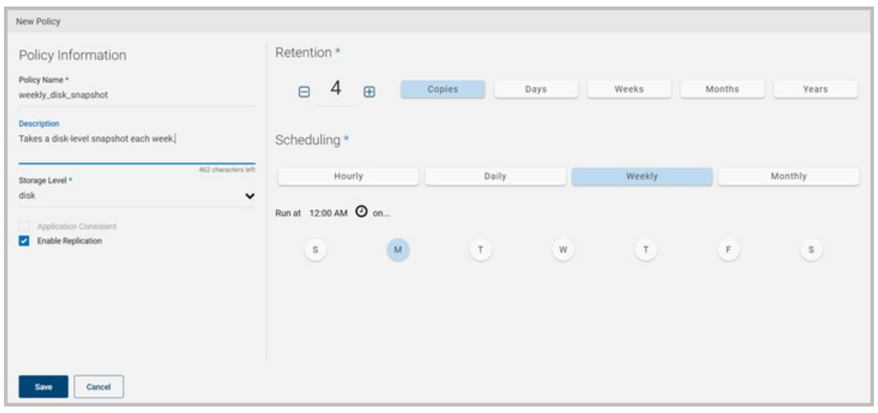
An application-consistent snapshot is recommended for taking snapshots of database applications. (An application consistent snapshot requires a CloudPoint Enterprise license.)

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.



New Policy

Policy Information

Policy Name *
weekly_disk_snapshot

Description
Takes a disk-level snapshot each week.

462 characters left

Storage Level *
disk

□ Application Consistent

☑ Enable Replication

Retention *

4 Copies

Scheduling *

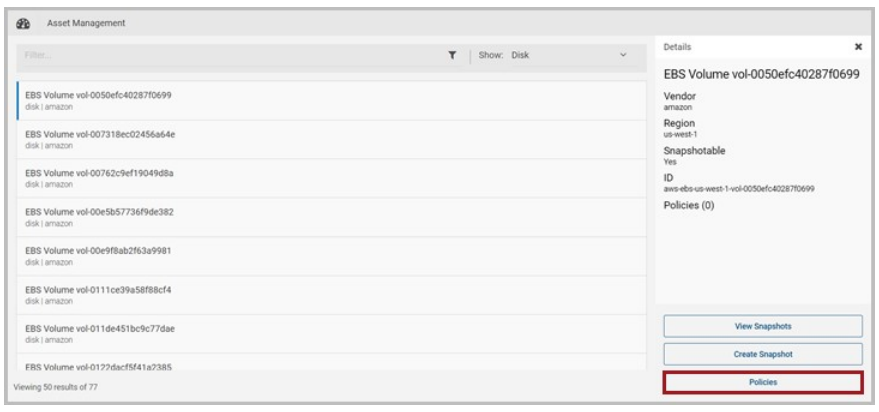
Weekly

Run at 12:00 AM on... M

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**.



Asset Management

Show: Disk

EBS Volume vol-0050efc40287f0699
disk | amazon

EBS Volume vol-007318ec02456a64e
disk | amazon

EBS Volume vol-00762c9ef19049d8a
disk | amazon

EBS Volume vol-00e5b57736f9de382
disk | amazon

EBS Volume vol-00e9f8ab2f63a9981
disk | amazon

EBS Volume vol-0111ce39a58f88cf4
disk | amazon

EBS Volume vol-011de451bc9c77dae
disk | amazon

EBS Volume vol-0122dacf5f41a2385

Viewing 50 results of 77

Details

EBS Volume vol-0050efc40287f0699

Vendor
amazon

Region
us-west-1

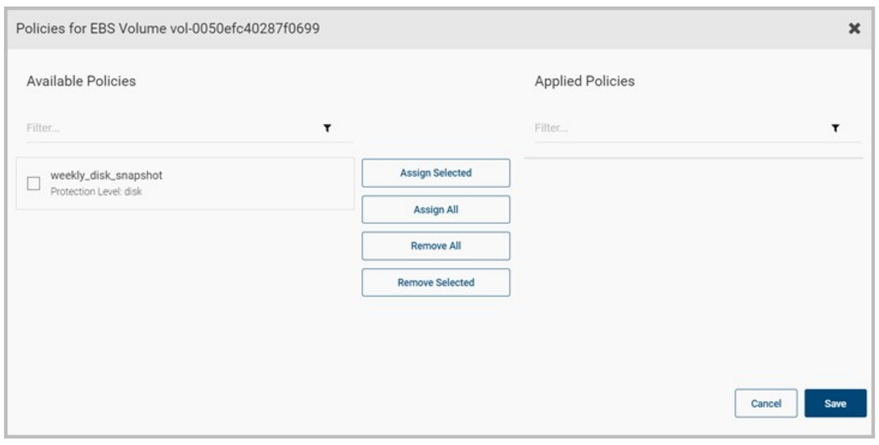
Snapshotable
Yes

ID
aws-ebs-us-west-1-vol-0050efc40287f0699

Policies (0)

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.



Policies for EBS Volume vol-0050efc40287f0699

Available Policies

□ weekly_disk_snapshot
Protection Level: disk

Applied Policies

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

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