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

Prepare for installation

- 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

1 Verify system requirements		2 Create a volume and a file system for the	3 Verify AWS permissions and get keys	
Operating system Virtual machine Virtual CPUs RAM: Root disk	Ubuntu 16.04 LTS, RHEL 7.5 Elastic Compute Cloud (EC2) instance type: t2.large 2 8 GB 30 GB with a solid-state drive	 CloudPoint data On the EC2 dashboard, click Volumes > Create Volumes. Follow the instructions on the screen and specify the following: Volume type: General Purpose SSD Size: 50 GB 	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	
Data volume	(GP2) 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.	 3. Create a file system and mount the device to /cloudpoint on the instance host. Refer to the instructions available here: <u>http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-using-volumes.html</u> 	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 OS instance image that meets CloudPoint installation requirements.
 - Add sufficient storage to the instance to meet the installation requirements.
- 2. Install Docker.

Ubuntu: <u>https://docs.docker.com/install/linux/docker-ce/ubuntu/</u>

RHEL: <u>https://docs.docker.com/install/linux/docker-ee/rhel/#prerequisites</u>

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

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.

	Welcome to CloudPoint Initia Admin Account Setup Username * @veritas.com	al Configuration
	Password *	Confirm Password *
	Host information Hosts * Hostnames	0
	ec2-13-56-228-125.us-west-1.compute.am	azonaws.com 🕲
2.	 Veritas. I agree to the terms and conditions Enter a valid email add 	Configure dress for the CloudPoint
3.		ne and enter a password. ost names that are used to oint host.
	generate a server cert name (CloudPoint hos	pecified host names to ificate for authentication. The st FQDN) that you used to guration screen earlier is fault.
	Click Configure.	
5	On the sign in screen	enter vour admin user name

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**.
- 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	Regions	
	us-east-1	
Secret Key	us-east-2	
	us-west-1	
	us-west-2	
	ap-south-1	
	ap-northeast-1	

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>

- 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
/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.

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

Cancel Save

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 *	Retention *	Copies Days	Weeks	Nonths Years
Description	Scheduling *			
Storge Level * Please select a statope level Application Consumt Enable Replication	Hourly	Daily	Weekly	Monthly
Cancel				

Enter the following:

Policy Information

r oncy mormation			
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 Consiste	nt 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

 New Works, snapshot

 Very Name*

 Weeks, disk, snapshot

 Scheduling *

 Scheduling *

 New Policy

 New

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 3
EBS Volume vol-0050efc40287f0699			EBS Volume vol-0050efc40287f0699
disk Lamazon			amazon Region
EBS Volume vol-007318ec02456a64e disk smazon			us-west-1 Snapshotable Yes
EBS Volume vol-00762c9ef19049d8a disk Lamazon			ID aws-ebs-us-west-1-vol-0050efc40287f0699
EBS Volume vol-00e5b57736f9de382 disk jamazon			Policies (0)
EBS Volume vol-00e9f8ab2f63a9981 disk i amazon			
EBS Volume vol-0111ce39a58f88cf4 disk i amazon			
EBS Volume vol-011de451bc9c77dae dskjamazon			View Snapshots
EBS Volume vol-0122dacf5f41a2385			Create Snapshot
wing 50 results of 77			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.

olicies for EBS Volume vol-0050efc4	l0287f0699		
Available Policies		Applied Policies	
Filter	T	Filter	т
weekly_disk_snapshot Protection Level disk	Assign Selected		
Protection Level disk	Assign All]	
	Remove All]	
	Remove Selected		

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



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