

Veritas NetBackup CloudPoint™ Quick Start Guide for AWS

What is NetBackup CloudPoint?

Veritas NetBackup CloudPoint is an integrated cloud-native feature of NetBackup, a leading enterprise data protection solution that's simple to deploy, easy to scale, and cost-effective to run. NetBackup CloudPoint is available to all users deploying NetBackup 8.3 or newer at no additional cost.

Highlights:

- ✦ Easy to deploy.
- ✦ NetBackup integration: Natively integrates with NetBackup for centralized visibility, reporting, Role Based Access Control (RBAC) and compliance across physical, virtual, and cloud workloads.
- ✦ Disk, File and Database level recovery, application consistent snapshot.
- ✦ Replicate across AWS regions and accounts for DR readiness. Allow Rollback, Original and Alternate location restores.
- ✦ 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 cloud platforms
- ✦ Modular architecture for rapid workload proliferation
- ✦ Intuitive interface and reporting
- ✦ NetBackup integration

Deploy NetBackup CloudPoint from AWS Marketplace

1 Search for the product

- Search for Veritas NetBackup CloudPoint on the AWS marketplace.
- Click on Manage. Click on "[Read more on AWS Marketplace](#)" to read more about the product.
- Clicking on the Action button (on the right side of the page) will list down the various options, some to view product info, some to launch the stack, and some to view already launched stacks.

2 Deploy the product

- On clicking the Action button, you will see a option to "Launch CloudFormation Stack", which will lead to the Launch page. Another option is, after searching for the product, you may directly on "Launch CloudFormation Stack", which will lead to the Launch page. Select the delivery method, software version and region from the dropdown appearing on the screen.
- Click on "Continue to Launch" button after selecting the above fields.
- On the next page, you can review the configuration selected and choose how you wish to launch the software.
- From the "Choose Action" drop-down, select "Launch CloudFormation" and click on Launch.
- This will take you to the CloudFormation service page, where template source would be pre-filled. Click on "Next".

3 Fill in the CloudFormation Template

- **Stack Name** ○ Unique stack name has to be provided. The name you specify would be the name of the stack created.

Specify a stack name and parameter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation template. [Learn more.](#)

Stack name

- **CloudPoint System Configuration**

- OS type (Mandatory):

Select an OS from the drop down that appears. The default being RHEL.

- EC2 Instance type (Mandatory):

Select a type from the drop down that appears. The default being t3.large.

- Volume Size (Mandatory):

Size of the volume which would be created as part of stack for CP metadata. Default is 60 GB.

- IAM role (Optional):

Specify IAM role name, which would be attached to the CP instance. Otherwise it would be created with the required permissions and would be attached to the CP instance.

CloudPoint System Configuration

OS type for EC2 Instance *

Select the OS type for the CloudPoint instance

Ubuntu

EC2 Instance Type *

Select the EC2 Instance type that you want to use for the CloudPoint instance

t3.large

Volume Size *

Enter the size (GB) of the EBS volume that will be attached to the CloudPoint instance

60

IAM Role

Optional - Name of the role to be attached to the CloudPoint instance (A new IAM Role will be created if this field is left empty)

• **CloudPoint Upgrade Configuration**

- **EBS Volume ID (Optional):**
This is used in case of upgrade. Existing Volume ID which has CP metadata has to be specified, which would be attached to the CP instance.
- **Volume Snapshot (Optional):**
This is used in case of upgrade. Existing CP metadata disk's snapshot ID has to be specified. Volume would be created and attached to the CP instance from the snapshot.

CloudPoint Upgrade Configuration

EBS Volume ID

Optional - ID of an existing EBS volume. !!! Please note if you are upgrading from standalone deployments of Veritas CloudPoint !!! Post upgrade, CloudPoint only works in conjunction with Veritas NetBackup. You must use NetBackup to manage CloudPoint and protect new and existing workloads. Veritas recommends that you back up the contents of the '/cloudpoint' directory before you proceed with the upgrade. If you wish to migrate your existing protection plans and be able to restore your existing snapshots, you must use the command line-based CloudPoint migration utility, after the upgrade is successful. Refer to the Veritas NetBackup CloudPoint Install and Upgrade Guide for details. To get more help with the standalone CloudPoint upgrade and usage of the migration utility, contact Veritas Technical Support either by opening a support case at https://www.veritas.com/support/en_US or by calling the appropriate number for your region at https://www.veritas.com/content/support/en_US/contact-us.

Volume Snapshot ID

Optional - ID of the CloudPoint metadata volume snapshot. !!! Please note if you are upgrading from standalone deployments of Veritas CloudPoint !!! Post upgrade, CloudPoint only works in conjunction with Veritas NetBackup. You must use NetBackup to manage CloudPoint and protect new and existing workloads. Veritas recommends that you back up the contents of the '/cloudpoint' directory before you proceed with the upgrade. If you wish to migrate your existing protection plans and be able to restore your existing snapshots, you must use the command line-based CloudPoint migration utility, after the upgrade is successful. Refer to the Veritas NetBackup CloudPoint Install and Upgrade Guide for details. To get more help with the standalone CloudPoint upgrade and usage of the migration utility, contact Veritas Technical Support either by opening a support case at https://www.veritas.com/support/en_US or by calling the appropriate number for your region at https://www.veritas.com/content/support/en_US/contact-us.

• **Network Configuration**

- **CloudPoint VPC (Mandatory):**
Select a Virtual private network where you want to deploy CloudPoint instance. The drop-down lists down the VPC IDs in the region where you are deploying CP.
- **CloudPoint Subnet (Mandatory):**
From the drop down, select the ID of existing subnet in your VPC where you want to deploy CloudPoint instance. The drop-down lists down the subnet IDs in the region where you are deploying CP.
- **Availability Zone (Mandatory):**
From the drop down that appears, choose a zone where CP would be deployed.
- **Inbound Access CIDR(Mandatory):**
The Inbound Access CIDR would be used to create a Security Group for CloudPoint. The traffic from the CIDR mentioned would be allowed to the CloudPoint.
- **Elastic IP (Optional):**
Specify an Elastic IP in case the selected network type is Public, which would be assigned to CloudPoint instance. In case, the field is left blank, the CloudPoint instance would be assigned an IP from the Amazon pool.
- **HTTP Proxy (Optional):**
Specify HttpProxy environment variable to configure CloudPoint with proxy server
- **HTTPS Proxy (Optional):**
Specify HttpsProxy environment variable to configure CloudPoint with proxy server
- **No Proxy (Optional):**
Specify NoProxy environment variable to configure CloudPoint with proxy server

Network Configuration

CloudPoint VPC *

Select ID of existing VPC where CloudPoint instance will be deployed

CloudPoint Subnet *

Select ID of existing subnet in your VPC where CloudPoint instance will be deployed

Availability Zone *

Name of an existing EC2 Availability Zone in which the CloudPoint instance will be created

Inbound Access CIDR

CIDR to allow inbound access to CloudPoint instance

Elastic IP

Optional - Elastic IP to be assigned to CloudPoint instance

HTTP Proxy

Optional - HttpProxy environment variable to configure CloudPoint with proxy server

HTTPS Proxy

Optional - HttpsProxy environment variable to configure CloudPoint with proxy server

NO Proxy

Optional - NoProxy environment variable to configure CloudPoint with proxy server

- **CloudPoint Configuration**

- CloudPoint username (Mandatory) :
The email of user using which CloudPoint would be configured.
- CloudPoint password (Mandatory) :
Password for the user-name using which CloudPoint would be configured.
- Confirm CloudPoint Password (Mandatory) :
Confirm password for the user-name using which CloudPoint would be configured.
- Hostnames (Optional):
Names of CloudPoint host that need to part of the TLS certificate.

CloudPoint Configuration

CloudPoint User Name *

User name using which CloudPoint will be configured

CloudPoint Password *

Password for the user using which CloudPoint will be configured

Confirm CloudPoint Password *

Confirm password for the user using which CloudPoint will be configured

Hostnames

Optional - Names of CloudPoint host that need to be part of the TLS certificate

- **Security Configuration**

- SNS Topic ARN (Optional):
The ARN of a SNS topic to receive notifications when ASG scales to address the disaster.

Security Configuration

Key Pair Name *

Select the EC2 key pair that will be used to enable SSH access for the CloudPoint instance

- **CloudPoint Recovery Notification Configuration**

- SNS Topic ARN (Optional):
The ARN of a SNS topic to receive notifications when ASG scales to address the disaster .

CloudPoint Recovery Notification Configuration

SNS Topic ARN

Optional - ARN of the SNS Topic to get notifications on any update in the CloudPoint Auto Scaling Group (Leave this field blank if notifications are not required)

- **CloudPoint KMS Configuration**

- Customer's Mater Key ID (Optional):
ID of the customer's master key to configure KMS with CloudPoint, if KMS need to be configure d.
- Customer' Master Key's Region (Optional):
The region in which the above mentioned key is present. Optional, if the region is same as the region in which CloudPoint is deployed.

CloudPoint KMS configuration

CMK ID

Optional - ID of the customer master key using which KMS would be configured with CloudPoint (Leave this field blank if KMS need not be configured)

CMK Region

Optional - Region of the CMK if CMK ID is specified (Leave this field blank if region is same as where CloudPoint is being deployed)

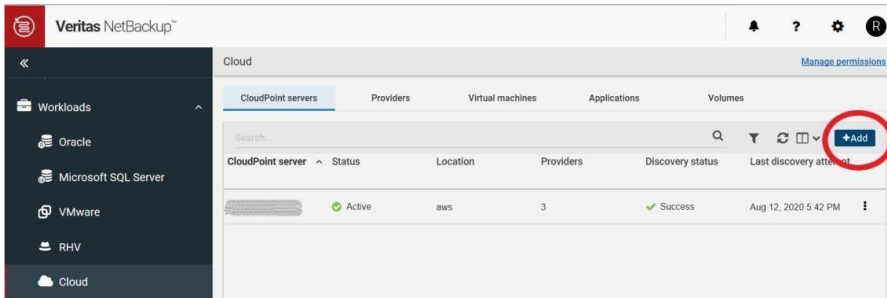
4 Confirm and Create the stack

- In the next page, user needs to specify information such as Tags, Permissions, Rollback Triggers, and some other additional options for the stack, like notification options and a stack policy.
- The next page allows you to review your inputs and asks for the acknowledgement that the AWS CFT may create some IAM resources.
- Click on the Create button.
- This will now take you the page where all the stacks are listed. You can view the status of the stack you just created.

Register CloudPoint to NetBackup

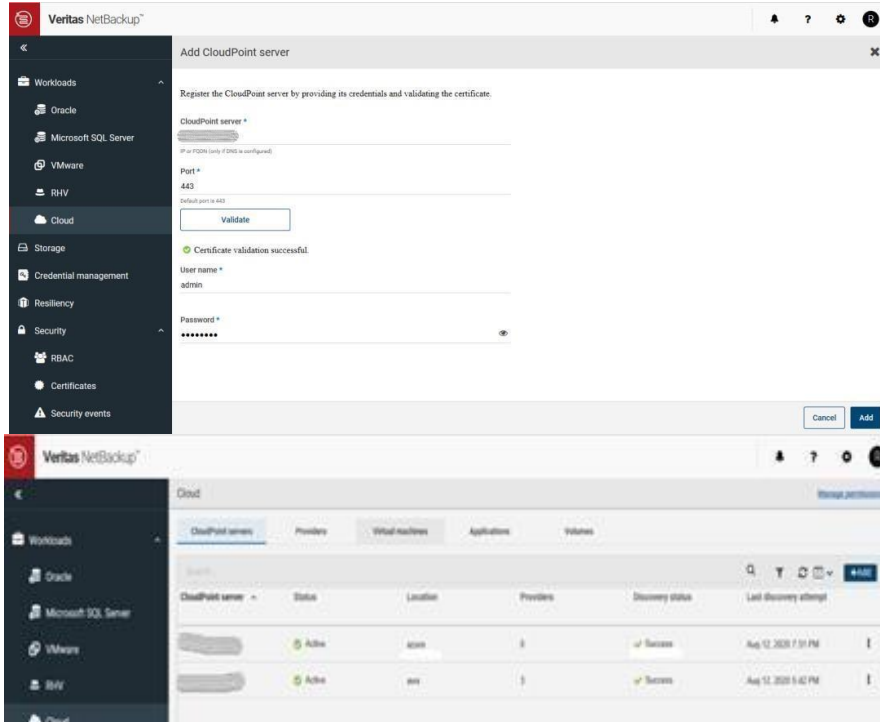
1 Add CloudPoint Server in NetBackup

- Login to NetBackup 8.3.0 <https://<nertbackupserver>/webui>
- Go to Cloud section under Workloads tab and click "+Add" to add a new



CloudPoint server.

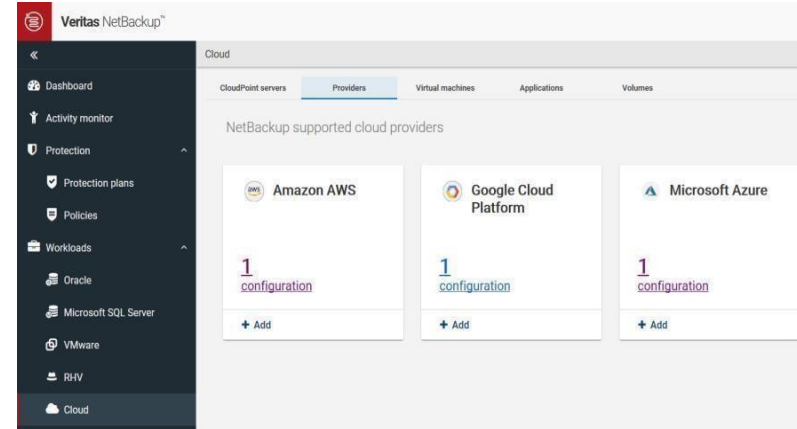
- Add CloudPoint server



- Wait till Discover status is successful for the newly added CloudPoint server

2 Add Providers

- Add configurations for any of the cloud providers by clicking "+Add" below the Cloud provider to add a configuration for that cloud.



- Once the providers have been added successfully, you would see the providers against that cloud has been incremented accordingly and the status of discovery is successful.

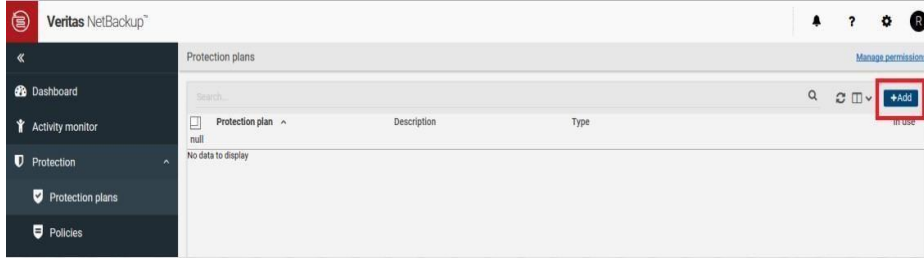


- You may now select any VM, Application or Volume from the respective tabs and assign a Protection Plan to it

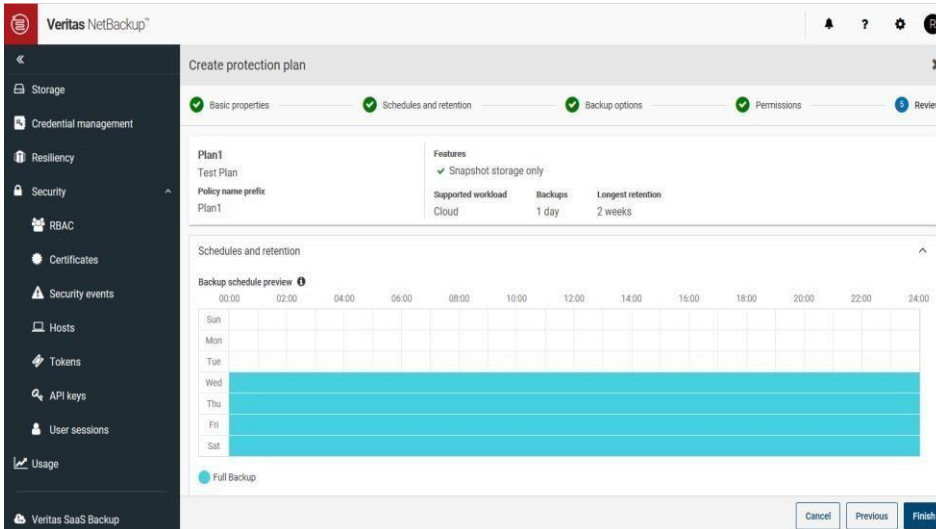
Protect an asset

1 Create a protection plan

- Go to Protection plan section under Protections tab and click "+Add" to add a new protection plan



- Set the properties for the Protection Plan and click Finish to create a new.



2 Protect Assets

- Once the Protection Plan has been created you may select any asset from the virtual Machine tab of cloud section to protect a VM and add the Protection Plan for scheduled backups or do a "Backup now" and select the protection plan using which you want to back up the VM. Similarly, you may protect any volume/application.

Virtual machine	Region	Provider	Protected by	Application	Last successful backup
CP-2.2-DND aws-ec2-ap-south-1-i-04d76754216	ap-south-1	amazon	Not protected	Not connected	
akash-m9-q9j-DND aws-ec2-ap-south-1-i-08fca65314	ap-south-1	amazon	Plan1	Not connected	

- You may recover the assets by selecting the asset and going to the recovery section of the asset, and recover from the list of recovery points.

Protection	Recovery points	Volumes	Restore activity	Permissions
August 6, 2020 5:15 PM 99cc2ae2-c760-4194-9727-620528-6494ab	aws-ec2-ap-south-1-i-01101e74830-af8fac	August 19th 2020, 8:38:23 pm	Not connected	awsdiscoverfibermodification:8866
Date	Time	Copies		
August 6, 2020	5:15:54 PM	1		
August 6, 2020	4:52:40 PM	1		

