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
- Auto-deletion of expli
 Fast RPO and RTO
 - 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 "<u>Read more on AWS Marketplace</u>" 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 Cloud	IFormation Template
Stack Name stack created.	o Unique stack name has to be provided. The name you specify would be the name of the
Specify a stack name and parame	ter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation template. Learn more.
CloudPoint	System Configuration
\circ OS type (Man	idatory):
Selectar	n OS from the drop down that appears. The default being RHEL.
o EC2 Instanc	e type (Mandatory):
Selecta	type from the drop down that appears. The default being t3.large.
o Volume Si	ze (Mandatory):
Size of t	he 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): 0

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): 0

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

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 norted to plants and be able to restore your existing angaly you must use the command line-based CloudPoint 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 ba 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 guote cast the Veritas NetBackup. CloudPoint Install and Upgrad clude 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): 0

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): 0

> 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): 0

From the drop down that appears, choose a zone where CP would be deployed.

Inbound Access CIDR(Mandatory): 0

> 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): 0

> 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): 0

Specify HttpProxy environment variable to configure CloudPoint with proxy server

HTTPS Proxy (Optional): 0

Specify HttpsProxy environment variable to configure CloudPoint with proxy server

No Proxy (Optional): 0

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 to or 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	
lakeund Access CIDD	
Indound Access to Cloud Point instance	
Elastic IP	
Optional - Elastic IP to be assigned to CloudPoint instance	
LITTO Design	
IT IF Proxy Ontional - HttpProxy environment variable to configure CloudPoint with proxy server	
openne i reprine provincent remene se soningers executionis mili provi series	
HTTPS Proxy	
Optional - HttpsProxy environment variable to configure CloudPoint with proxy server	

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
 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 Cloud Point Recovery Notification Configuration SNS Topic ARN (Optional):
The ARN of a SNS topic to receive notifications when ASG scales to address the disaster.
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
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 <u>https://<nertbackupserver>/webui</u>
- Go to Cloud section under Workloads tab and click "+Add" to add a new



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.

CIOUU					
CloudPoint servers	Providers	Virtual machines	Applications	Volumes	
NetBackup sur	oported cloud	providers			
🖮 Amaz	on AWS	👩 Goo	gle Cloud	A Micr	rosoft Azur
		Plat	form		
 configuration	1	 configurati	ion	<u>configurati</u>	ion
+ Add		+ Add		+ Add	
	CloudPeint servers NetBackup sup market Amaz	CloudPoint servers Providers NetBackup supported cloud (m) Amazon AWS 1 configuration + Add	CloudHoid servers Poviders Vitual mediate NetBackup supported cloud providers Image: Amazon AWS 1 configuration + Add	CloudPoint servers Providers Virtual nuclines Applications NetBackup supported cloud providers Image: Amazon AWS 1 configuration + Add	CloudPoint servers Providers Visual machines Applications Values NetBackup supported cloud providers Image: Amazon AWS Image: Amazon AWS Image: Image: Amazon AWS Image: Image: Image: Amazon AWS Image: Image

• 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.

			Volumes	Applications	Providers Virtual machines	CloudPoint servers
bbA+	чШС т р					Bearch
	Last discovery attempt	Discovery status	Providers	Location	Status	CloudPoint server
1	Aug 14, 2020 11:22 AM	V Success	T	aws	📀 Active	r
1	Aug 14, 2020 11:16 AM	🖌 Success	0	SWB	📀 Active	

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

Veritas NetBackup							4 ?	• 6
«	Add CloudPoint ser	ver						3
Workloads Oracle Microsoft SOL Server VMware NHV Noracle NHV Coud Coud Coud Coud Coud Coudential management RHV Resillency	Register the CloudPoint set CloudPoint server * CloudPoint server * Point* Point* Data Cloudpoint set/set/set/set/set/set/set/set/set/set/	ever by providing its	credentials and validating th	e certificate.				
Security State RBAC Certificates	A Pastword *			۲			Cance	el Ado
Veritas NetBackup"	Cited DealPost arrest	Pasies	Wednesday	Autoin	Values		• •	•
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Ø them	10000	(5 Alba	-		1	of factors	Aug 12 203 7 51 PM	I
		5 Adve			4	+ heren	Au 12 2021 ALPM	1

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

Protect an asset

1 Create a protection	n plan	ections tab and clic	k "+Add" to add a	anew	 Protect Assets Once the Protect virtual Machine for scheduled which you ware volume/applic 	ection Plan has e tab of cloud so backups or do a t to back up the ation.	been created you ection to protect a a "Backup now" ar e VM. Similarly, yo	u may select any a VM and add the nd select the pro ou may protect a	asset form the Protection Plan tection plan using ny
protection plan					Virtual machine	Region A	Provider Protected by	Application	Last successful backup
Veritas NetBackup"				4 ? ¢ 🕻	aws-ec2-ap-south-1+0cd7fe7	54216. ap-south-1	amazon Pian1	Not connected	
«	Protection plans			Manage permission		arth a casata b	w colocting the co		the receivery
B Dashboard	Search			Q 2 ⊞ - +Add	section of the	asset and reco	ver from the list of	f recovery point	s
Y Activity monitor	Protection plan null	Description Type		in use					
D Protection	No data to display				August 6, 2020 5:15 PM	90ce2ae2-c7d6-419d-b727-63b528	aws-ec2-ap-south-1+-01c01e74530 August 13th:	2020, 8:36:23 pm Not connected	awsdiscoverfiltermodification.8866
V Protection plans					Protection	0494ab Recovery points	Volumes	Restore activity	more v Permissions
Policies					Investi-Outer & Ne or Tobler mer	se ha severals (۹ 🖸 ۲ 🗆 ۲ ال ۲
Set the propertie	s for the Protection	Plan and click Fin	hish to create a	DOW/	Date	Time		Copies ~	
					August 6, 2020	4.52.40 PM			E E
Ventas NetBackup				* 7 0 0	9				
≪ Storace	Create protection plan				×				
Credential management	Basic properties Sched	ules and retention 🛛 🔗 Backup	o options 🛛 🕜 Permis	sions 5 Revie	ew				
Resiliency	Plan1	Features							
Security ^	Test Plan Policy name prefix	Snapshot storage only Supported workload Backups Lon	gest retention						
😁 RBAC	Plan1	Cloud 1 day 2 w	reeks		_				
Certificates	Schedules and retention			^					
A Security events	Backup schedule preview 0 00:00 02:00 04:00 06:0	0 08:00 10:00 12:00	14:00 16:00 18:00	20:00 22:00 24:00					
🖽 Hosts	Sun								
🛷 Tokens	Tue								
API keys	Wed Thu								
🐣 User sessions	Fi								
Lesage	Full Backup								
🔥 Veritas SaaS Backup				Cancel Previous Finish	h				

VERITAS^{*} The truth in information.

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