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 Deploy the product

• On clicking the Action button, you will see an 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".

2 Fill in the CloudFormation Template

Stack Name

o 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.

CloudPoint System Configuration

• OS type (Mandatory):

Select an OS from the drop down that appears.

Stack name

• 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.

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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 must 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 must 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 grapes 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/contact-us.

Volume Snapshot ID

Volume Snapshot ID
Optional - ID of the CloudPoint metadata volume snapshot. III Please note if you are upgrading from standalone deployments of Veritas CloudPoint III Post upgrade, CloudPoi only works in conjunction with Veritas NetBackup. You must use NetBackup to manage CloudPoint and portext new and existing workdoads. Veritas recommends that you bac 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, affore the upgrade is guocessful. Refer to the Veritas NetBackup CloudPoint Install and Upgrade Guide for details. To get more help with the standalone CloudPoint upgrade musage 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 in which the volume or snapshot exists for upgrade.
- 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 which was dissociated from the previous deployment in case the selected network type is Public, which would be assigned to CloudPoint instance.

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 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): 0 The email of user using which CloudPoint would be configured. In case of upgrades, provide the email used in the previous deployment.
- CloudPoint password (Mandatory): 0

Password for the user using which CloudPoint would be configured. In case of upgrades, provide the password used in the previous deployment.

Confirm CloudPoint Password (Mandatory): 0

Confirm password for the user using which CloudPoint would be configured. In case of upgrades, provide the password used in the previous deployment.

Hostnames (Optional): 0

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 *

which CloudPoint will be configured

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

Security Configuration

 \circ 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

$\circ\,$ Customer's Mater Key ID (Optional):

ID of the customer's master key to configure KMS with CloudPoint, if KMS need to be configured.

 \circ Customer's 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.

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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 resource s.
- 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 https://<nertbackupserver>/webui

Go to Cloud section under Workloads tab and click "+Add" to add a new CloudPoint server.

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«		Cloud						Manage p	ermissions
-	Workloads ^	CloudPoint servers	Providers	Virtual machines	Applications	Volumes	5		\sim
	Soracle					Q	T	2	+Add
	😹 Microsoft SQL Server	CloudPoint server	Status	Location	Providers	Discovery status	Last	discovery atter	et
l i j	ゆ ∨Mware	6	Active	aws	3	V Success	Aug 1	2, 2020 5:42 PM	•
1	= RHV								
	Cloud								

Add CloudPoint server

Veritas NetBackup"		٠	?	۰	®
	Add CloudPoint server				×
 Workloads Oracle Microsoft SQL Server VMware RHV 	Register the CloudPoint server by providing its credentials and validating the certificate. CloudPoint server * For # 7001 (out) of DDD to configured) Port * 433 Terfuel port 443				
Cloud	Validate Certificate validation successful. User name * admin				
Resiliency Security RBAC Certificates	Password *				
A Security events			Can	cel	Add

• Wait the discovery status is successful for the newly added CloudPoint server.

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•	Cloud								Through per	-
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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.

ĸ	Cloud					
孢 Dashboard	CloudPoint servers	Providers	Virtual machines	Applications	Volumes	
Activity monitor	NetBackup su	pported cloud	providers			
Protection ^						
Protection plans	es Amaz	zon AWS		gle Cloud	A Micro	soft Azure
Policies			Plat	form		
Workloads ^	1.00		1.44			
all Oracle	<u>1</u> configuratio	n	1 configurati	on	1 configuratio	2
👼 Microsoft SQL Server	+ Add		+ Add		+ Add	
VMware						
a RHV						

• 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.



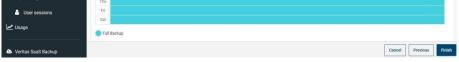
1 Create a protection plan

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

8	Veritas NetBackup"					?	° B
«		Protection plans				Manag	e permissions
6 3	Dashboard				Q	2 ⊡~	+Add
¥	Activity monitor	Protection plan null	Description	Туре			in use
U	Protection ^	No data to display					
	Protection plans						
	Policies						

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

Veritas NetBackup"											4	1 7	٥	R
«	Create prote	ction plan												,
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Credential management	Sasic proper	ues		schedules	anu retenuon		•	backup opeons		V Per	rissions		•	Revie
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Security ^	Policy name pre Plan 1	flox			Supported wa	ridoad	Backups 1 day	Longest retention 2 weeks						
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Certificates	Schedules an	d retention												^
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Security events	00:00	02:00	04:00	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	2	24:00
🖽 Hosts	Sun													
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2 Protect Assets

• Once the Protection Plan has been created you may select any asset form 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 A	Provider	Protected by	Application	Last successful backup
CP_2.2_DND aws-ec2-ap-acuth-1+0cd7fe754216	ap south 1	amazon	0 Not protected	Not connected	
akash-ms-sql-DND sws-ec2-sp-south-1+0d0c4665314	ap-south-1	Imazon	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.

99ce2ae2-c7d6-419d-b727-63b528 6494ab	aws-ec2-ap-south-1+01c01e74530 af90ac	August 13th 2020, 8:36:23 pm	Not connected	awsdiscoverfi	termodification.8866 more #
Recovery points	Volumes	Rest	ore activity	Permissions	
e to search()				٩	0 ° • •
Time		Copie	6 Y		
5.15.64 PM					1
4:52:40 PM					I
	6494ab Recovery points Recovery points Time D.1554 PM 45240 PM	6494ab ar80ac Volumes Recovery points Volumes Time 0.15.94 PM 4.52.40 PM	6404ab af80ac V08umes Rest	6494ab af80ac Restore activity Recovery points Volumes Restore activity Time Copies ~ 0.1554 PM 452-40 PM	6404ab af80ac Recovery points Volumes Restore activity Permissions Time Copies ~ 01554 PM 45240 PM

Upgrade NetBackup CloudPoint from AWS Marketplace

The upgrade process is similar to when you are deploying a new instance using the CloudPoint CFT. Upgrading a CloudPoint CloudFormation stack difference is in some of the parameters where you are required to specify the values used in the existing CloudPoint deployment.

Prerequisites for the upgrade :

Perform the following steps before you proceed with the upgrade:

- 1. Gather the following details about the existing CloudPoint instance; these are required later during the actual upgrade:
 - CloudPoint metadata volume ID.
 - Perform the following steps to get the volume ID.
 - In the AWS Console, from the menu on the left, click Services, and then from under Management & Governance, click CloudFormation.
 - From the list of stacks, click on the CloudPoint stack and then click the Resources tab.
 - From the list of resources displayed, locate a volume of type of AWS::EC2::Volume and Logical ID as NewVolume. This is the volume that contains the . CloudPoint metadata.
 - Copy the entry that appears in the Physical ID column. The entry is of the format vol-123456abc789 and it represents the volume ID.
 - CloudPoint metadata disk snapshot ID.
 - Using the CloudPoint metadata volume ID that you noted earlier, perform the following steps to find out the metadata disk's snapshot ID:
 - In the AWS Console, from the menu on the left, click Services, and then from under Compute, click EC2.
 - From the EC2 Dashboard navigation menu on the left, under Elastic Block Store, click Snapshots. .
 - Search for the snapshot ID using the CloudPoint metadata volume ID as the search parameter.
 - Copy the snapshot ID listed under the Snapshot ID column.
 - AWS IAM role that is attached to the CloudPoint configuration.
 - AWS Elastic IP that is associated with the CloudPoint instance.
 - CloudPoint administrator username and password.
 - AWS SNS Topic ARN that is created for the existing CloudPoint stack. If required, you can also use another SNS topic ARN altogether.
- 2. Verify that there are no protection policy snapshot or other operations in progress.
- 3. Stop CloudPoint gracefully. Log on to the CloudPoint instance and then run the following command:
 - # sudo docker run --rm -it -v /cloudpoint:/cloudpoint -v /var/run/docker.sock:/var/run/docker.sock veritas/flexsnap-cloudpoint:current version

stop The CloudPoint containers are stopped one by one. Messages similar to the following appear on the command line:

Stopping the services

Stopping container: flexsnap-agent.e425d969dd4 ...done Stopping container: flexsnap-agent.4704fd318322 ...done

Stopping container: flexsnap-fluentd ...done

Stopping container: flexsnap-mongodb ...done

Stopping container: flexsnap-rabbitmg ...done

Wait for all the CloudPoint containers to be stopped.

4. Unmount the CloudPoint file system on the instance and then detach the CloudPoint metadata volume mounted at /cloudpoint. Type the following command on the instance:

umount /cloudpoint

- 5. Disassociate the AWS Elastic IP that is assigned to the existing CloudPoint instance.
 - From the AWS console, click on the EC2 Service and then from under Network and Security, select Elastic IPs. Select the Elastic IP address assigned to the instance and then click Actions > Disassociate address and then confirm the action. You will associate the same IP with the newer instance later during the upgrade.

Perform the following steps to upgrade a CloudPoint deployment using a new AWS CloudFormation stack.

Note: Enter the above collected information against the respective attributes in CloudPoint Upgrade Configuration.

Deploy the product

On clicking the Action button, you will see an 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".

2 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.
- EC2 Instance type (Mandatory): 0

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

Volume Size (Mandatory): 0

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

IAM role (Optional): 0

> 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 *

CloudPoint Upgrade Configuration

EBS Volume ID (Optional): 0

This is used in case of upgrade. Existing Volume ID which has CP metadata must be specified, which would be attached to the CP instance.

0 Volume Snapshot (Optional):

This is used in case of upgrade. Existing CP metadata disk's snapshot ID must be specified. Volume would be created and attached to the CP instance from the snapshot.

CloudPoint Upgrade Configuration

EBS Volume ID Des volume ID Optional - ID of an existing EBS volume. II! Please note if you are upgrading from standalone deployments of Veritas CloudPoint II! 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 migrate in 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, ornatz Veritas Technical Support either by poning 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

Volume Snapshot ID
Optional - ID of the CloudPoint metadata volume snapshot. III Please note if you are upgrading from standalone deployments of Veritas CloudPoint III Post upgrade, CloudPo
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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.

0 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.

0 Availability Zone (Mandatory):

From the drop down that appears, choose a zone in which the volume or snapshot exists for upgrade.

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.

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0 Elastic IP (Optional): Specify an Elastic IP which was dissociated from the previous deployment in case the selected network type is Public, which would be assigned to CloudPoint instance.

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 Configu

CloudPoint VPC *

ting VPC where CloudPoint instance will be deployed Select ID of ex

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

ccess to CloudPoint instance

Elastic IP

nal - Elastic IP to be assigned to CloudPoint instance

HTTP Proxy Optional - HttpProxy environment variable to configure CloudPoint with proxy server

HTTPS Proxy

Proxy 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. In case of upgrades, provide the email used in the previous deployment.

CloudPoint password (Mandatory):

Password for the user using which CloudPoint would be configured. In case of upgrades, provide the password used in the previous deployment.

• Confirm CloudPoint Password (Mandatory):

Confirm password for the user using which CloudPoint would be configured. In case of upgrades, provide the password used in the previous deployment.

• Hostnames (Optional):

Names of CloudPoint host that need to part of the TLS certificate.

CloudPoint Configuration

Security Configuration

• SNS Topic ARN (Optional):

The ARN of a SNS topic to receive notifications when ASG scales to address the disaster.

Secu	rity Configuration	
Key F	air Name *	
Select	the EC2 key pair that will be used to enable SSH access for the CloudPoint instance	

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CloudPoint 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 no	tifications 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 configured.

Customer's 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.

Perform the following steps before you proceed with the upgrade:

- Check for the status of the CloudFormation stack created.
- Delete the stack created by the previous deployment.
- After the stack creation is successful, enable the CloudPoint server from NetBackup.



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