



Veritas NetBackup AWS CloudFormation Template User Guide

Veritas NetBackup CloudFormation Template User Guide

Launching a new stack

A NetBackup master or media server can be launched by launching an Amazon Web Services (AWS) stack. An AWS CloudFormation template is used to ensure that the stack contains all of the AWS resources necessary to support NetBackup.

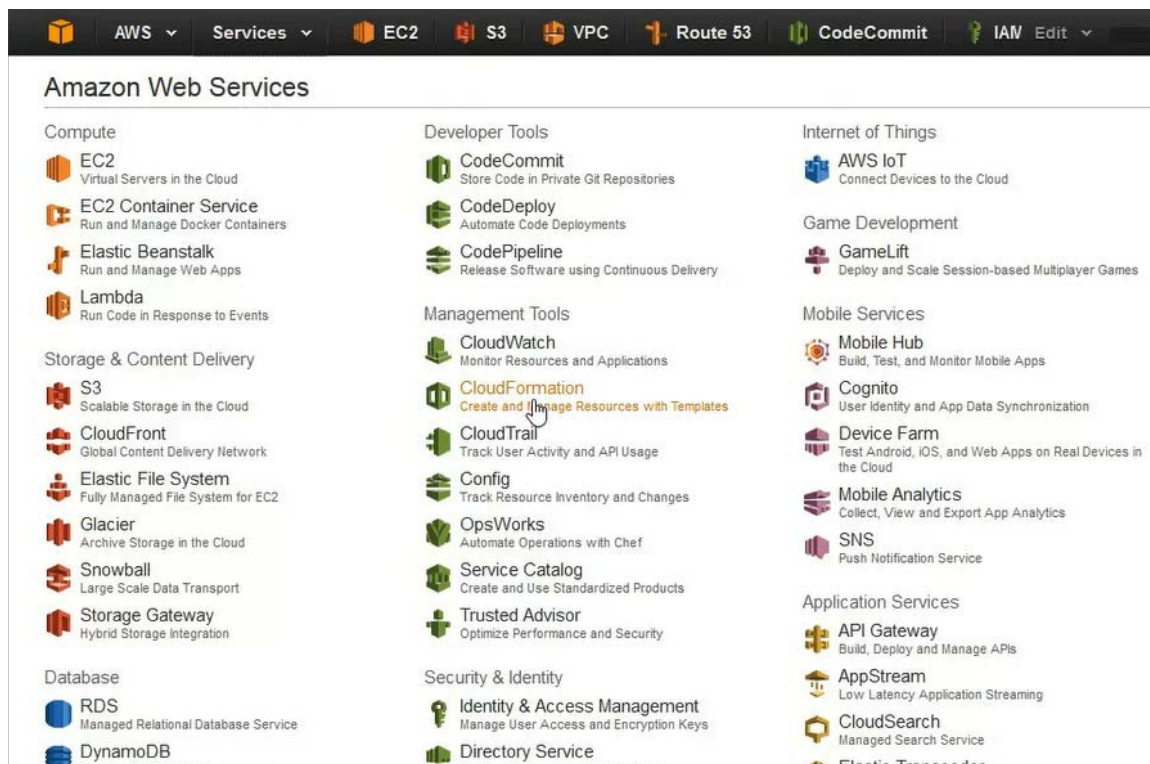
The template uses specific parameters to launch NetBackup into either a new or an existing Virtual Private Cloud (VPC). Whether you launch into a new or an existing VPC depends on whether you want to launch a master or a media server:

- Launch a NetBackup master server into a new VPC.
- Launch a NetBackup master or media server into an existing VPC.

Launching NetBackup into a new VPC (Master server only)

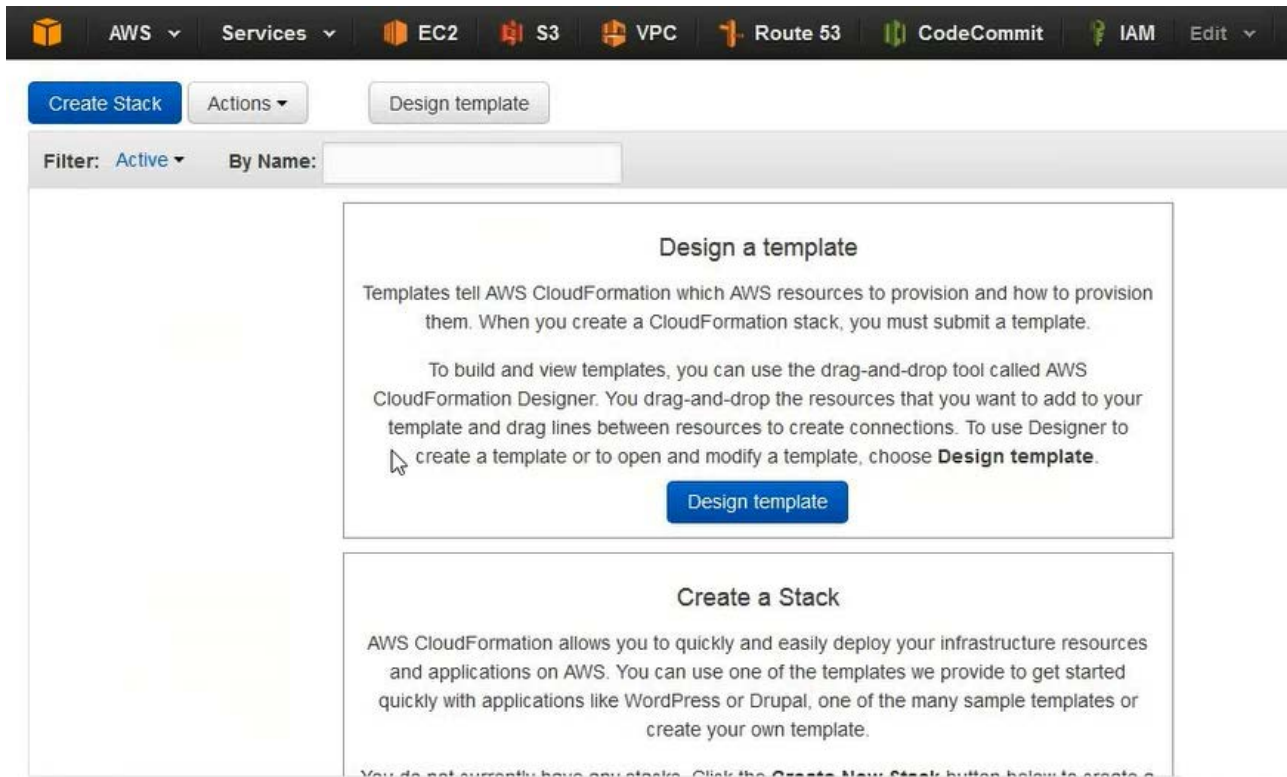
A new VPC is used for master servers only. An existing VPC can be used for master or media servers.

1. Open the AWS Management Console.
2. Under the **Management Tools** section, click on **CloudFormation**.



Veritas NetBackup CloudFormation Template User Guide

3. Click **Create Stack** in the top left corner.



4. Under **Choose a template**, browse to the NetBackup CloudFormation template file to upload. (For example, NBU-8_0.json or NBU-7_7_3.json.) This file describes the stack's resource files and the properties. Select the file and click **Next**.

You can also specify the URL for an Amazon S3 template:

https://s3.amazonaws.com/ami-nb/NBU-8_0.json

https://s3.amazonaws.com/ami-nb/NBU-7_7_3.json

Veritas NetBackup CloudFormation Template User Guide

The screenshot shows the 'Create stack' page in the AWS Management Console, specifically the 'Select Template' step. The left sidebar contains a navigation menu with 'Select Template' highlighted. The main content area has a sub-header 'Select Template' and a description: 'Select the template that describes the stack that you want to create. A stack is a group of related resources that you manage as a single unit.' Below this, there are two sections: 'Design a template' with a 'Design template' button, and 'Choose a template' with three radio button options: 'Select a sample template' (with a dropdown menu), 'Upload a template to Amazon S3' (selected, with a 'Browse...' button and 'No file selected' text), and 'Specify an Amazon S3 template URL' (with a text input field).

5. Under **Specify Details**, enter a **Stack name** for the new stack where NetBackup will launch.

The screenshot shows the 'Create stack' page in the AWS Management Console, specifically the 'Specify Details' step. The left sidebar contains a navigation menu with 'Specify Details' highlighted. The main content area has a sub-header 'Specify Details' and a description: '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.' Below this, there is a 'Stack name' text input field. Under the 'Parameters' section, there is a 'Generic Parameters' section with four parameters: 'UseExistingVPC' (a dropdown menu set to 'false' with a description 'Deploy server into an existing VPC'), 'InstanceType' (a dropdown menu set to 'm4.xlarge' with a description 'Select NetBackup instance type from dropdown list'), 'KeyName' (a dropdown menu set to 'Search' with a description 'Name of an existing EC2 KeyPair in the region, to enable SSH access to the instance.'), and 'VolumeSize' (a text input field set to '80' with a description 'NetBackup installation volume size').

Veritas NetBackup CloudFormation Template User Guide

6. Under **Generic Parameters**, specify the parameters for a master server:

UseExistingVPC	Since this is a new VPC, select False .
InstanceType	Select the NetBackup instance type. The m4.xlarge instance type provides a good mixture of computation speed and memory. See the following for details about each instance type: https://aws.amazon.com/ec2/instance-types
KeyName	Select an existing EC2KeyPair in the region. The key must be created before the stack is launched.
VolumeSize	The default NetBackup volume size is 80GB. NetBackup is installed on the D drive, in the Veritas directory.

7. Since this configuration is for a new stack, skip the **VPC and subnet configuration for existing VPC deployment** section.

8. Enter parameters for the new VPC in the **Configuration for new VPC deployment** section:

NewVPCCIDR	Enter the VPC CIDR block of the new VPC. This information is used to create VC and security group rules for the new server. For example, 172.31.0.0/16
PublicSubnetCIDR	Enter the public subnet to access the master server on the VPC. For example, 172.31.0.0/24
PrivateSubnetCIDR	Enter the private subnet CIDR for the VPC. For example, 172.31.1.0/24
DomainName	Enter the domain name. The Amazon Route 53 DNS web service will be configured with this domain name and will be associated with the VPC.
SecureIP	To remote access into the BastionHost, provide your public IP prefixed by /32 after the IPv4 address. This IP will be whitelisted in the security group for RDP access. Alternatively, if you require a range of IPv4 addresses you can enter this in CIDR block notation. For example, 201.45.23.0/24

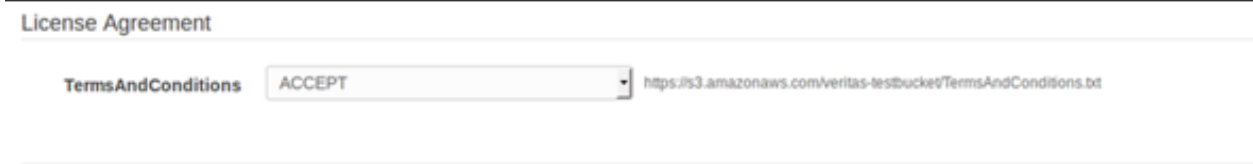
Veritas NetBackup CloudFormation Template User Guide

9. Enter parameters for NetBackup on the new VPC in the **Application Parameters** section:

NetBackupRole	Select whether this is a master or a media server. Select master server, as a new VPC can be configured to deploy a master server only.
NBUMasterServerName	Enter a master server name.
NBUMediaServerName	Since this is a master server, do not enter a media server name.
LicenseKey	Enter a NetBackup license key.

10. Click **Next**.

11. In the License Agreement, select **ACCEPT** in the dropdown list to comply to the EULA referred in the link.



12. On the **Options** page, enter additional tags that identify resources in the stack, if desired. Tags can be entered after launching the VPC.

13. Click **Next**.

14. Review the stack. Click **Previous** to go back and change a parameter.

Acknowledge that the CFT is creating IAM Roles. Click **Create** for CloudFormation to launch the stack. Stack creation time varies, based on the region and the time it is run. The progress displays in the **Events** tab of the AWS Management Console.



Connect to the NetBackup master server

1. Go to the Output section of the CloudFormation stack and note the BastionHost Public IP and the NetBackup server Private IP.
2. Go to the AWS EC2 Console and search for both the instances by filtering with IP / Server name.

Veritas NetBackup CloudFormation Template User Guide

3. Click **Get Windows password** to retrieve the password. Use the private key provided during the stack launch.
4. RDP into the bastion host.
5. RDP into NetBackup server from the bastion host.

Launching NetBackup into an existing VPC (master or media server)

An existing VPC can be used for either a master server or a media server.

Note: Make sure the subnet where you are launching the master or media server has Internet access through any NAT device.

1. Open the AWS Management Console.
2. Under the **Management Tools** section, click on **CloudFormation**.
3. Click **Create Stack** in the top left corner.
4. Under **Choose a template**, browse to the NBU-8_0.json CloudFormation template file to upload. Select the file and click **Next**.
5. Under **Specify Details**, enter a **Stack name** for the new stack where NetBackup will launch.
6. Under **Generic Parameters**, specify the parameters for a master server:

UseExistingVPC	Since this is an existing VPC, select True .
InstanceType	Select the NetBackup instance type.
KeyName	Select an existing EC2KeyPair in the region.
VolumeSize	The default NetBackup volume size is 80GB. NetBackup is installed on the D drive, in the Veritas directory.

7. Enter parameters for the **VPC and subnet configuration for existing VPC deployment** section.

VPCID	Enter the VPC ID for NetBackup server deployment.
SubnetID	Enter the Subnet ID for NetBackup server deployment.
VPCCIDR	Enter the VPC CIDR block of the existing VPC. This information is used to create security group rules for the NetBackup server.

8. Since this configuration is for an existing stack, skip the **Configuration for New VPC deployment** section.
9. Enter parameters for NetBackup on the existing VPC in the **Application Parameters** section:

NetBackupRole	Select whether this is a master or a media server. An existing VPC
----------------------	--

Veritas NetBackup CloudFormation Template User Guide

	can be configured to deploy a master server or a media server.
NBUMasterServerName	If this is a media server, enter the master server name to which the media server will connect. The name must be DNS-resolvable.
NBUMediaServerName	Enter a media server name.
LicenseKey	Enter a NetBackup license key.

10. Click **Next**.
11. On the **Options** page, enter additional tags that identify resources in the stack, if desired. Tags can be entered after launching the VPC.
12. Click **Next**.
13. Review the stack. Click **Previous** to go back and change a parameter or click **Create** to create the stack.

Connect to the NetBackup master or media server

1. Go to the Output section of the CloudFormation stack and note the BastionHost Public IP and the NetBackup server Private IP.
2. Go to the AWS EC2 Console and search for both the instances by filtering with IP / Server name.
3. Click **Get Windows password** to retrieve the password. Use the private key provided during the stack launch.
4. RDP into the bastion host.
5. RDP into NetBackup server from the bastion host.

Veritas World Headquarters
500 East Middlefield Road
Mountain View, CA 94043
+1 (650) 933 1000
www.veritas.com

© 2017 Veritas Technologies LLC. All rights reserved.
Veritas and the Veritas Logo are trademarks or
registered trademarks of Veritas Technologies LLC or its
affiliates in the U.S. and other countries. Other names
may be trademarks of their respective owners.