

Westcon AWS

Network Starter Kit

Deployment Guide



Network – CloudFormation Deployment Guide

This guide is for the deployment of the **Network Bundle** using CloudFormation.

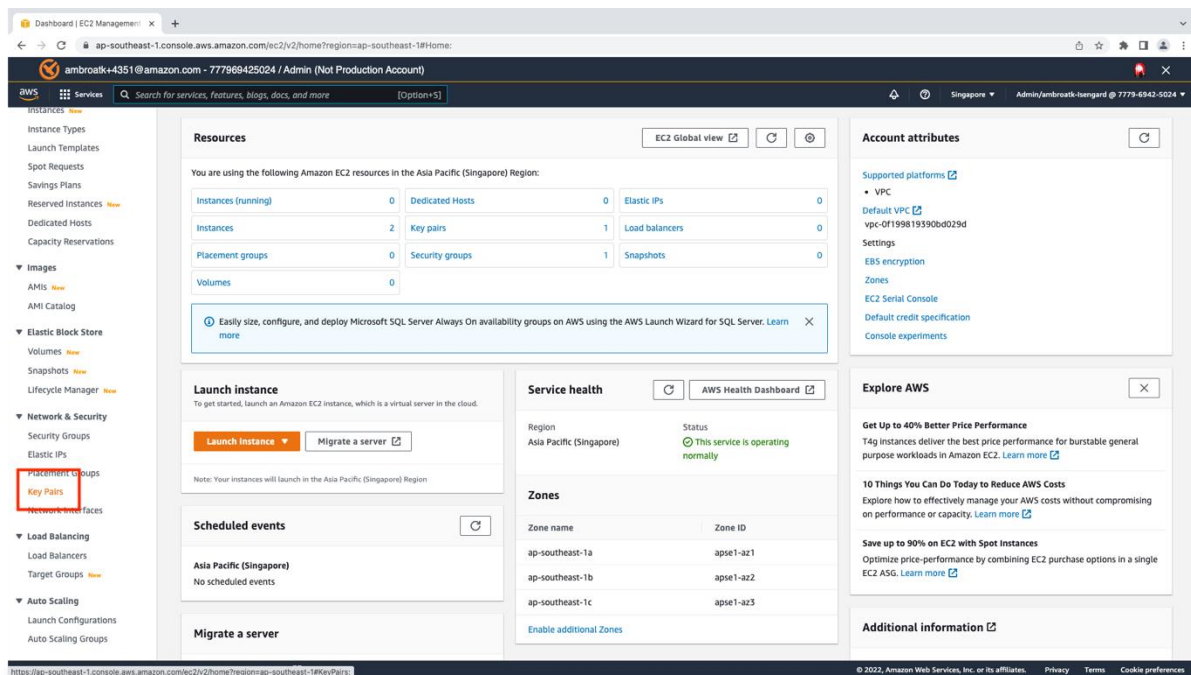
Pre-requisites

1. An existing EC2 Key Pair

An existing EC2 Key pair is needed. If you already have an existing EC2 Key Pair, skip the “Creating EC2 Key Pair” portion and proceed to the “Deploying Template Using CloudFormation” portion.

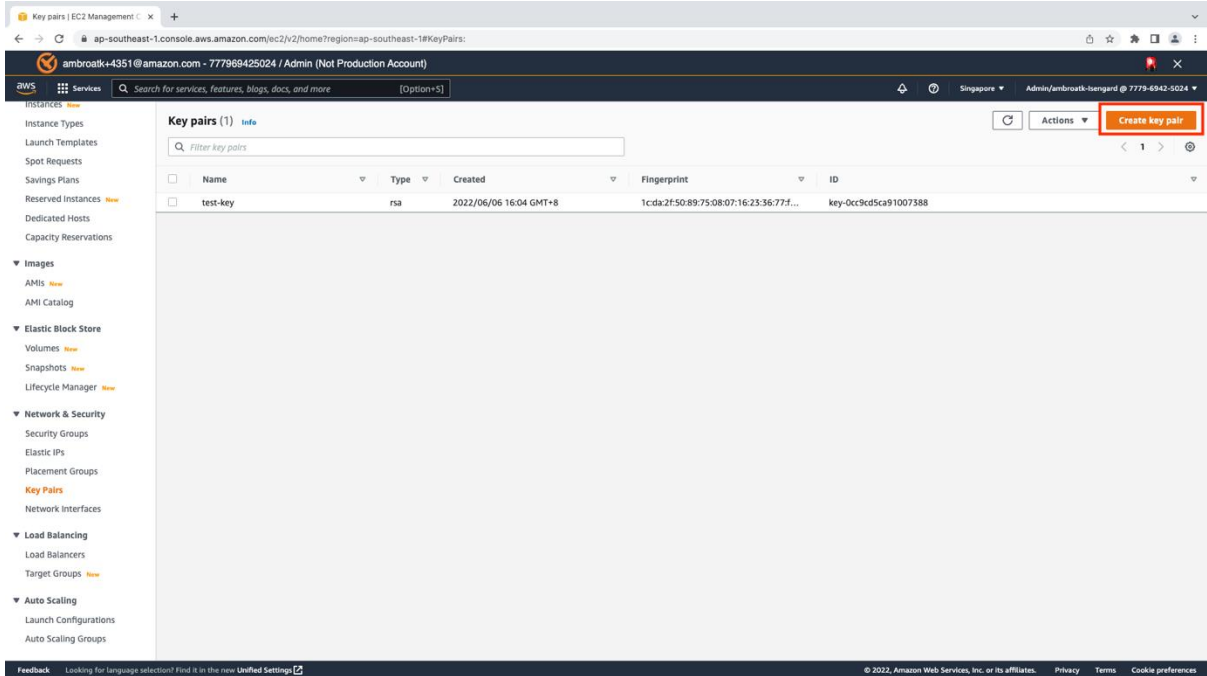
Creating an EC2 Key Pair

1. On the AWS console, navigate to the EC2 service.
2. Under Network and Security, click on “Key Pairs”.

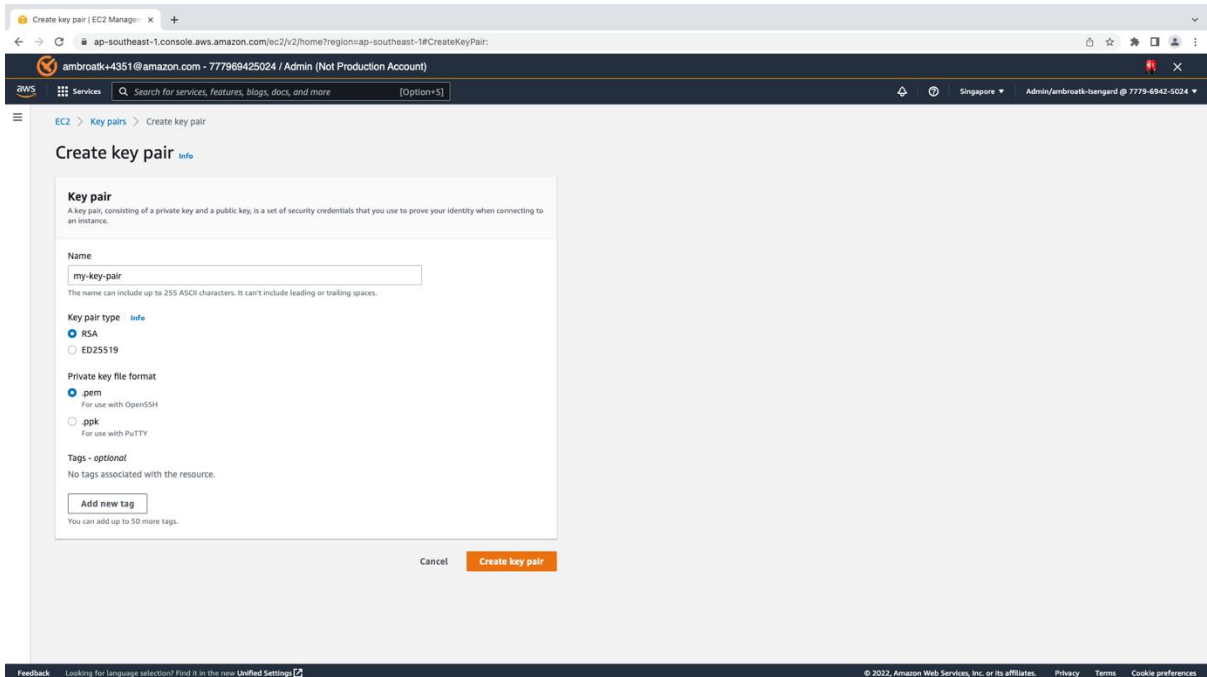


The screenshot shows the AWS Management Console for the EC2 service in the Asia Pacific (Singapore) region. The left-hand navigation menu is visible, with 'Key Pairs' highlighted under the 'Network & Security' section. The main content area displays 'Resources' for EC2, including a table of running instances, dedicated hosts, elastic IPs, instances, key pairs, load balancers, placement groups, security groups, snapshots, and volumes. The 'Key Pairs' resource is listed with a count of 1. Below the resources, there are sections for 'Launch instance', 'Service health', 'Zones', 'Scheduled events', and 'Migrate a server'. The 'Service health' section shows the region as Asia Pacific (Singapore) and the status as 'This service is operating normally'. The 'Zones' section lists three zones: ap-southeast-1a, ap-southeast-1b, and ap-southeast-1c. The 'Scheduled events' section shows no scheduled events for the Asia Pacific (Singapore) region. The 'Migrate a server' section is also visible. The right-hand side of the console shows 'Account attributes' and 'Explore AWS' sections.

3. Click on “Create key pair” to continue.

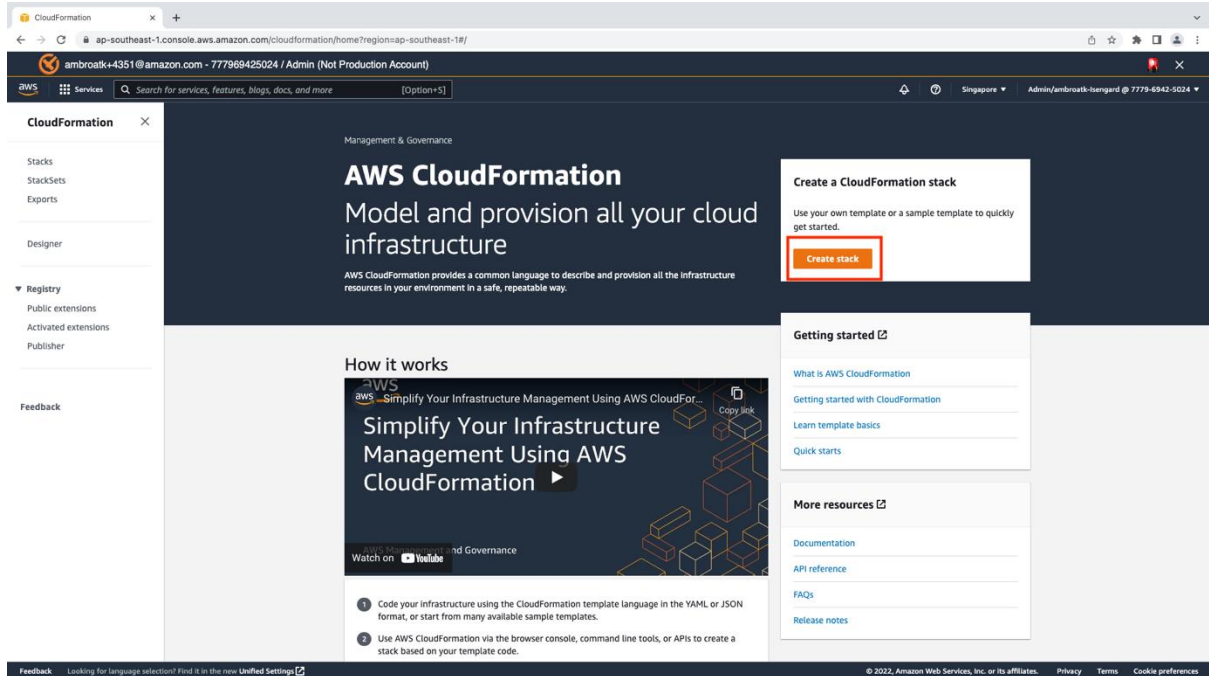


4. Enter a name for the Key Pair. Ensure that the “RSA” type and “.pem” format is selected.
5. Click on “Create key pair”.

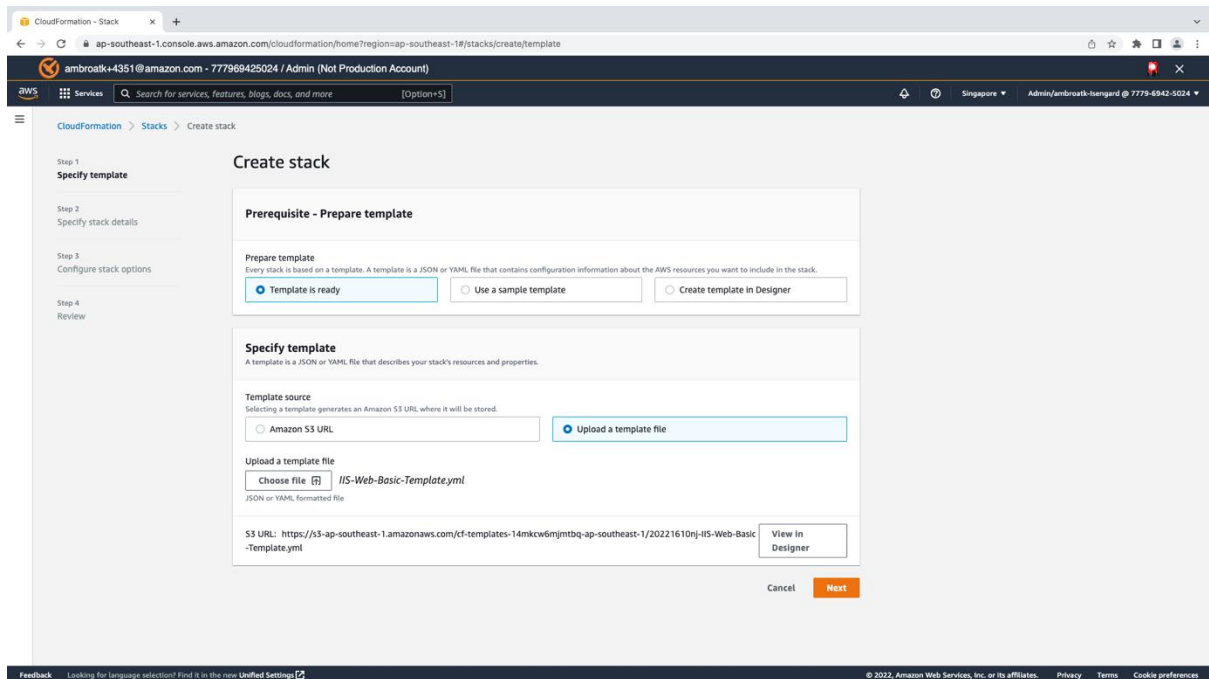


Deploying Template Using CloudFormation

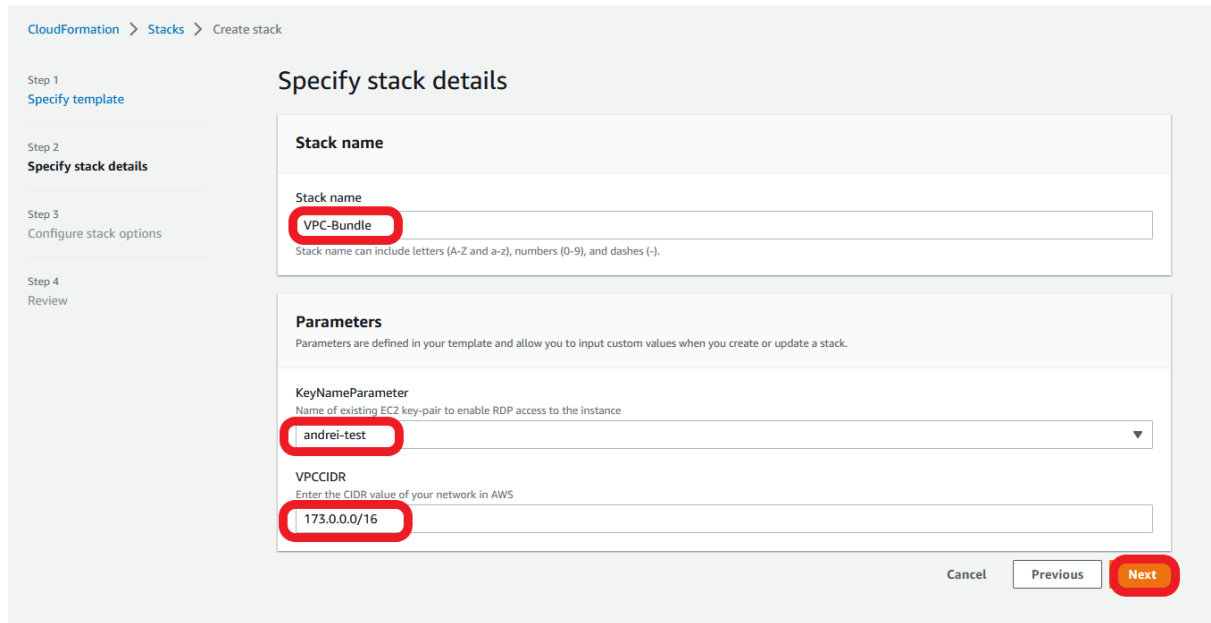
1. On the AWS console, navigate to the CloudFormation service. Click “Create stack”.



2. Select “Upload a template file”
3. Click on “Choose File”, then select the “VPC.yaml” file. Click “Next”.



4. Enter a name for the stack.
5. Select the Key Pair that you created previously. This will be used for the bastion host.
6. Under the Networking parameters, enter the CIDR Block for your network. The CIDR has to be unique and non-existent into any of your environments (on-prem or other clouds)



CloudFormation > Stacks > Create stack

Step 1
Specify template

Step 2
Specify stack details

Step 3
Configure stack options

Step 4
Review

Specify stack details

Stack name

Stack name

VPC-Bundle

Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-).

Parameters

Parameters are defined in your template and allow you to input custom values when you create or update a stack.

KeyNameParameter
Name of existing EC2 key-pair to enable RDP access to the instance

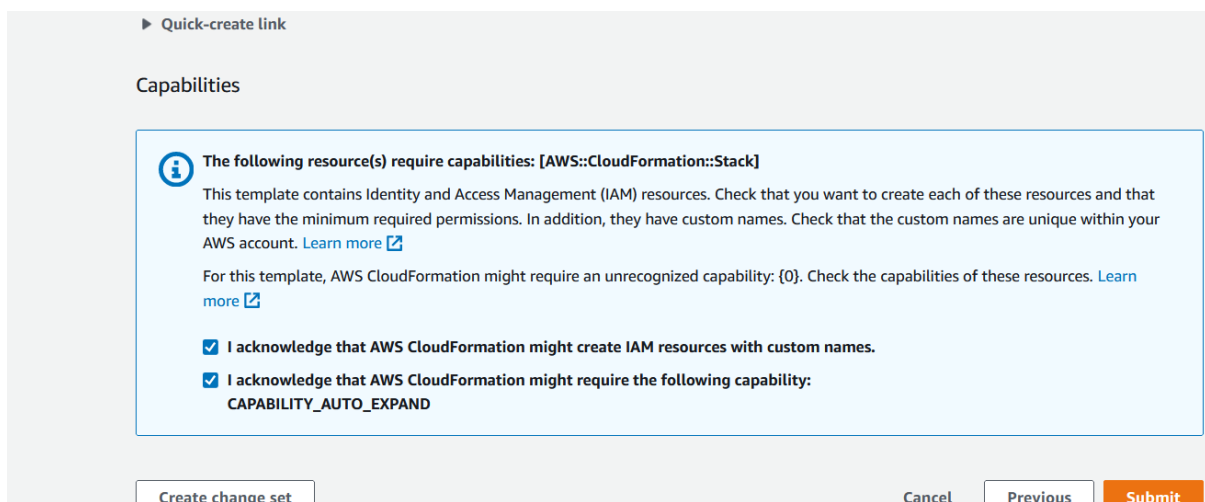
andrei-test

VPCCIDR
Enter the CIDR value of your network in AWS

173.0.0.0/16

Cancel Previous **Next**

7. Click "Next".
8. In the "Configuration Stack Option" click "Next".
9. In the "Review Page" make sure that you allow the template to create custom IAM resources and then click "Submit".



► Quick-create link

Capabilities

The following resource(s) require capabilities: [AWS::CloudFormation::Stack]

This template contains Identity and Access Management (IAM) resources. Check that you want to create each of these resources and that they have the minimum required permissions. In addition, they have custom names. Check that the custom names are unique within your AWS account. [Learn more](#)

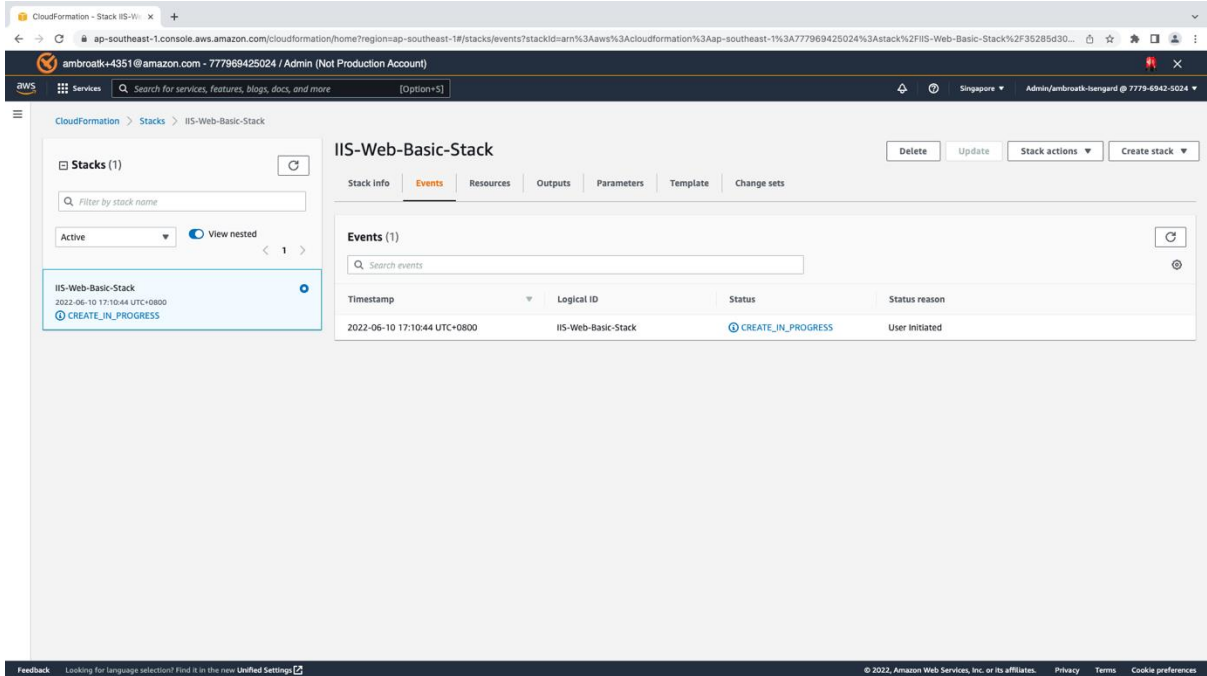
For this template, AWS CloudFormation might require an unrecognized capability: {0}. Check the capabilities of these resources. [Learn more](#)

I acknowledge that AWS CloudFormation might create IAM resources with custom names.

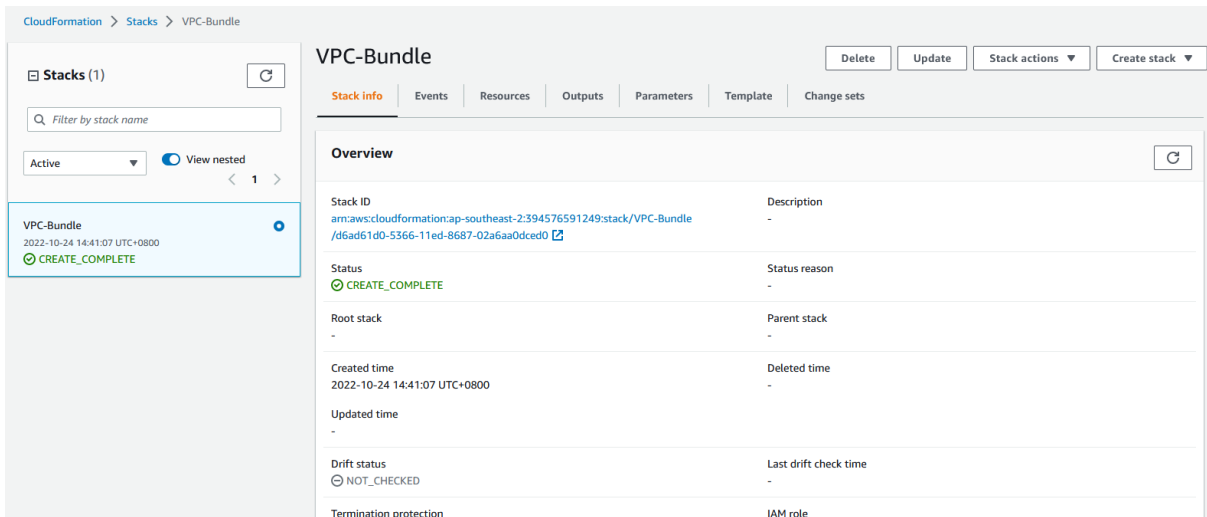
I acknowledge that AWS CloudFormation might require the following capability:
CAPABILITY_AUTO_EXPAND

Create change set Cancel Previous **Submit**

10. Once submitted you will see the template being deployed.



11. Wait for all the resources to be created. Press the refresh button on the top right until the stack creation is complete.



12. The created stack should look like this. All the resources have now been created and deployed.

13. Click on the "Outputs" tab to retrieve the Public IP of the Bastion Host

The screenshot shows the AWS CloudFormation console for a stack named 'VPC-Bundle'. The 'Outputs' tab is selected and highlighted with a red box. The 'Outputs' section contains a table with one entry:

Key	Value	Description	Export name
BastionPublicIP	3.24.192.74	Public IP of the Bastion Host	-

The value '3.24.192.74' is also highlighted with a red box. On the left side, the 'Stacks (1)' panel shows the 'VPC-Bundle' stack with a status of 'CREATE_COMPLETE'.

14. Use this public IP to remote to your Instance.



Have a question?

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