

# CLOUDFORMATION-27<sup>th</sup> Sep

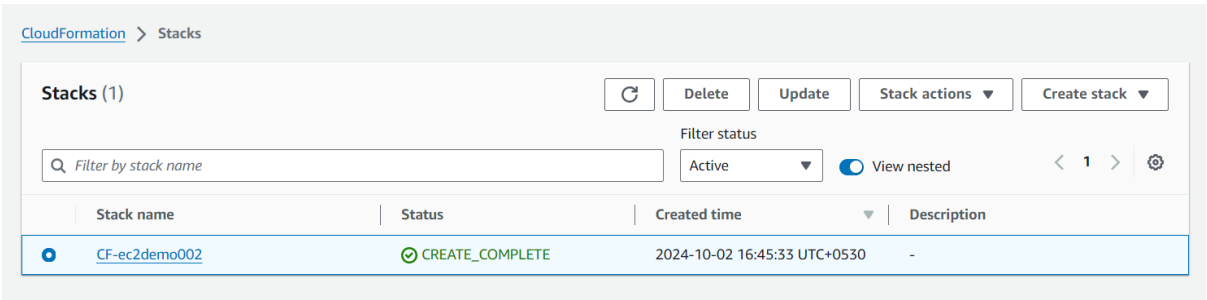
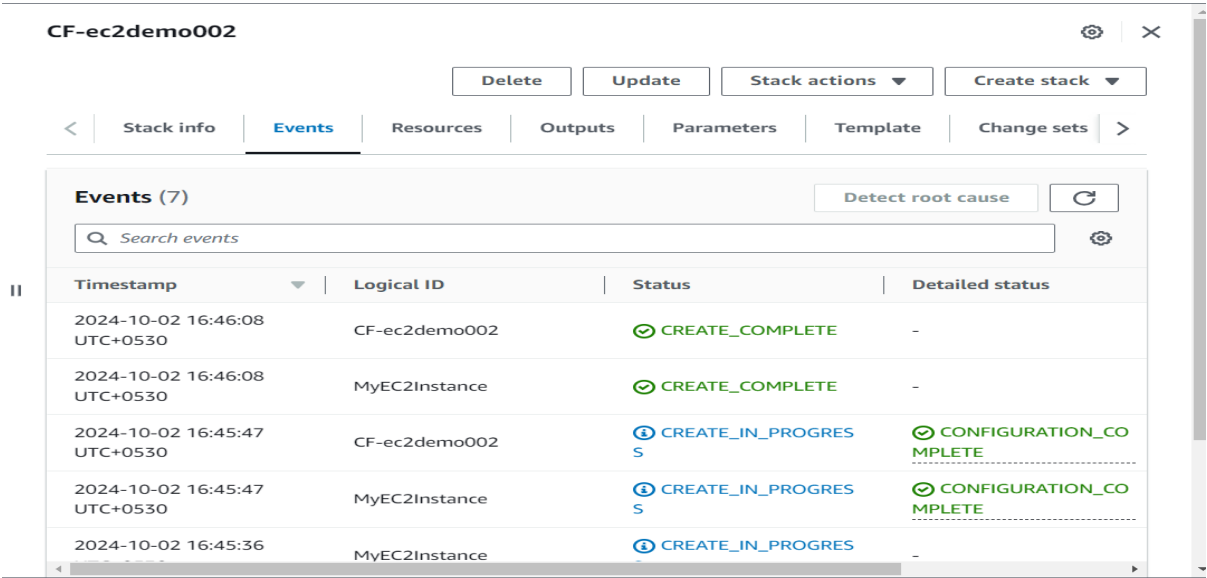
## CloudFormation:

AWS CloudFormation is a service that allows you to model and set up your Amazon Web Services (AWS) resources using templates. These templates are written in either JSON or YAML and allow you to define AWS services and resources.

1.Create a ec2 instance through CF write code in template



Instance have been created



## 2. Create an EC2 instance, EIP and associate with instance

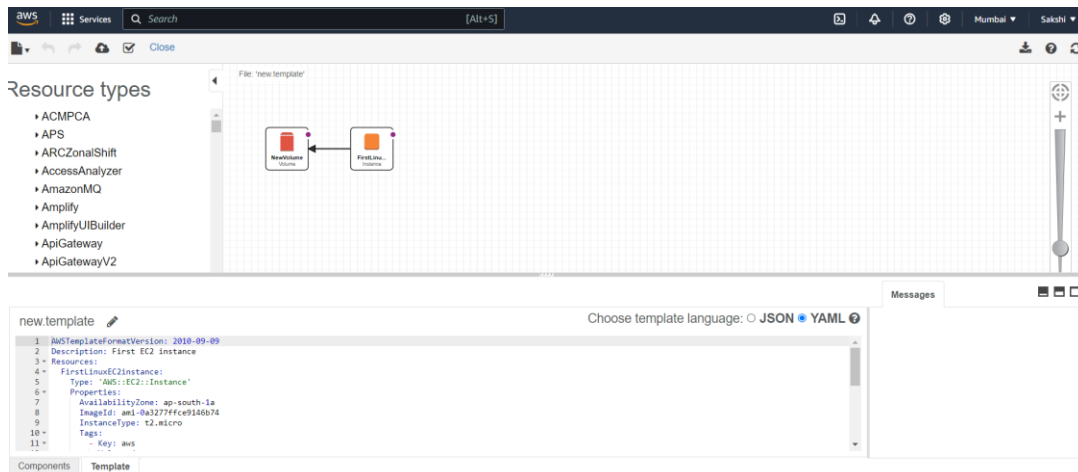
The screenshot shows the AWS CloudFormation console's 'new.template' editor. The left sidebar lists various AWS services. The main editor area shows a YAML template for creating an EC2 instance, EIP, and associating them. The template includes parameters for ImageId, InstanceType, and SubnetId, and resources for DemoInstance, DemoElasticIP, and an association. The AWS logo and navigation bar are visible at the top.

```
1 AWSTemplateFormatVersion: 2010-09-09
2 Description: 'Template to Create an EC2 instance, EIP and associate with instance'
3 Parameters:
4   ImageId:
5     Type: String
6     Description: Linux 2 AMI
7     Default: ami-0cc134ec43cf708f
8   InstanceType:
9     Type: String
10    Description: Choosing t2.micro
11    Default: t2.micro
12 Resources:
13   DemoInstance:
14     Type: AWS::EC2::Instance
15     Properties:
16       ImageId: !Ref ImageId
17       InstanceType: !Ref InstanceType
18       SubnetId: !Ref SubnetId
19   DemoElasticIP:
20     Type: AWS::EC2::EIP
21     Properties:
22       AllocationId: !Ref DemoInstance
23   DemoInstanceEIPAssociation:
24     Type: AWS::EC2::InstanceProfileAssociation
25     Properties:
26       InstanceId: !Ref DemoInstance
27       ElasticIpId: !Ref DemoElasticIP
```

The screenshot shows the AWS CloudFormation console's 'instance-ip002' stack. The 'Events' tab is selected, displaying a list of events for the stack. The events show the successful creation of the instance, EIP, and association.

Timestamp	Logical ID	Status	Detailed status
2024-10-02 17:01:17 UTC+0530	instance-ip002	✓ CREATE_COMPLETE	-
2024-10-02 17:01:16 UTC+0530	DemoElasticIP	✓ CREATE_COMPLETE	-
2024-10-02 17:01:09 UTC+0530	DemoInstance	✓ CREATE_COMPLETE	-
2024-10-02 17:00:41 UTC+0530	DemoElasticIP	ⓘ CREATE_IN_PROGRESS	-
2024-10-02 17:00:40 UTC+0530	DemoElasticIP	ⓘ CREATE_IN_PROGRESS	-

### 3) EC2 Instance with EBS Volume



instance-ebd-demo001

Delete Update Stack actions Create stack

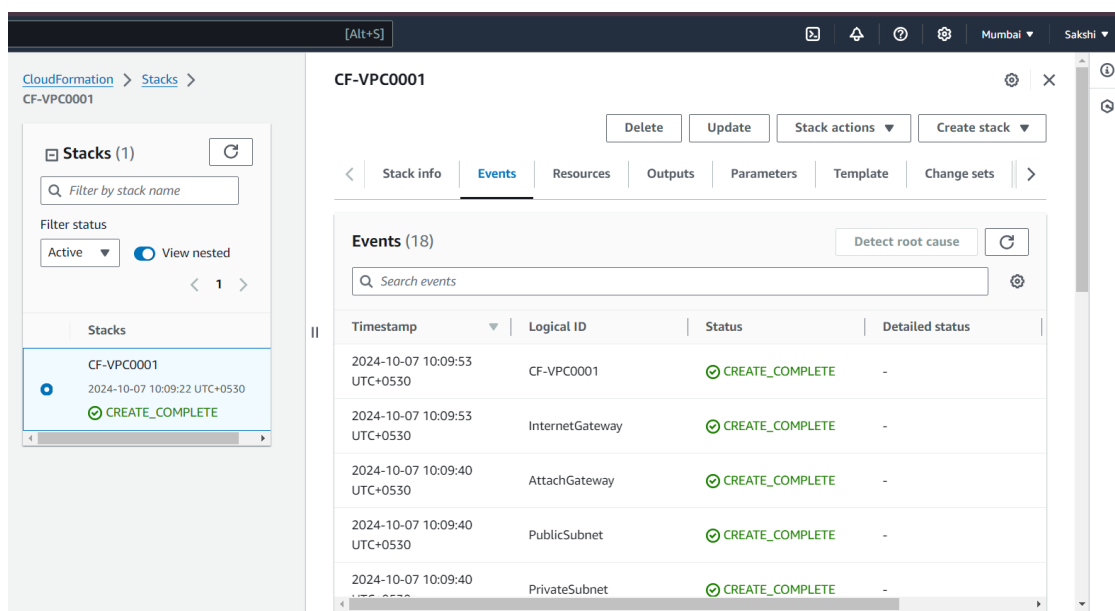
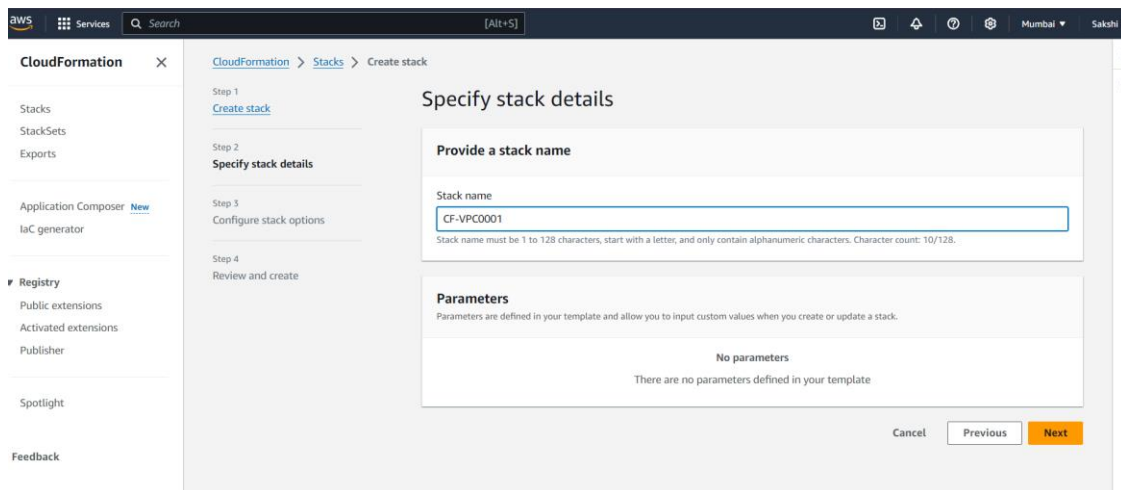
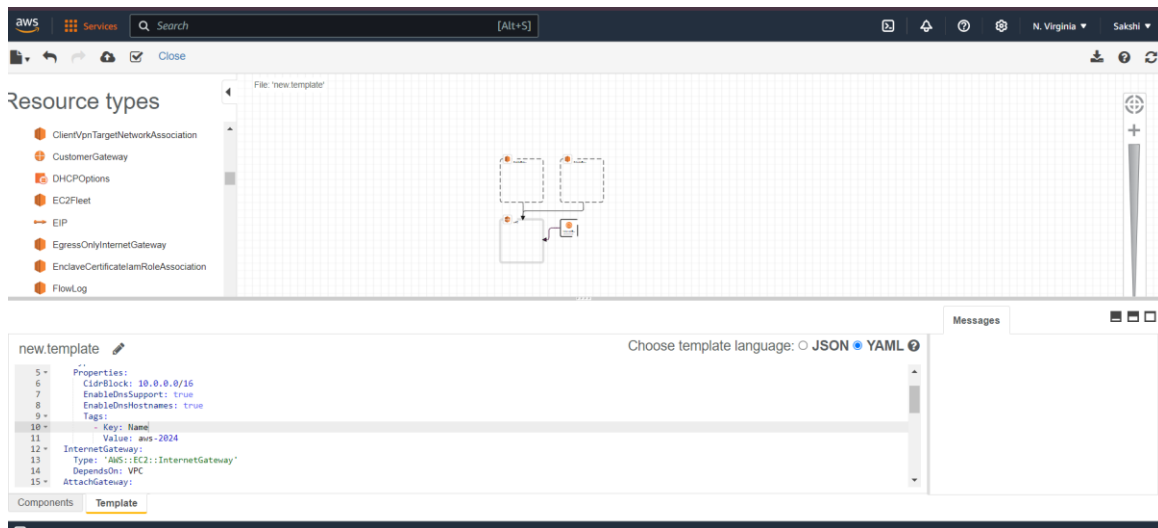
< Stack info Events Resources Outputs Parameters Template Change sets >

Events (9) Detect root cause

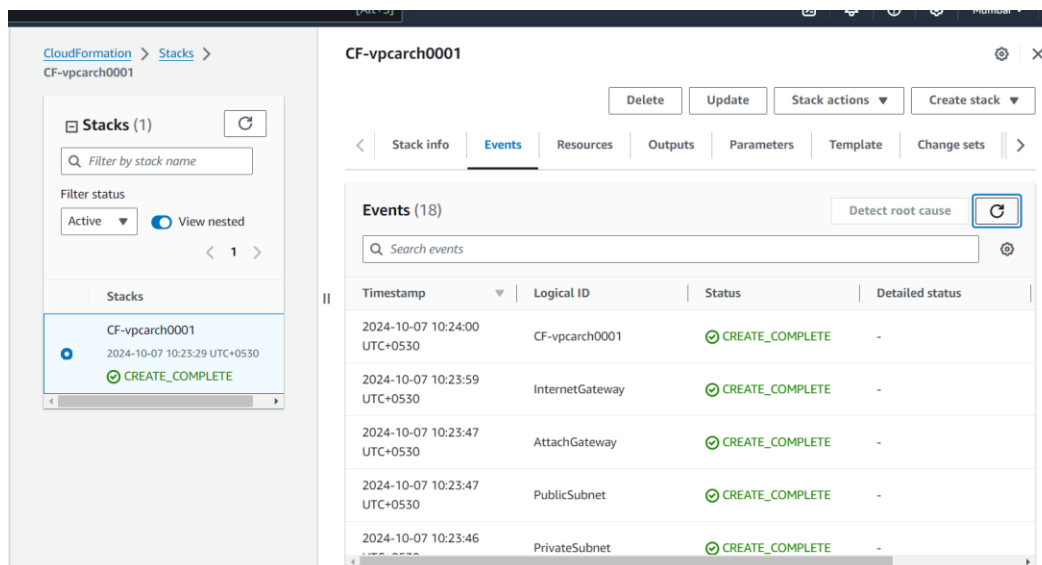
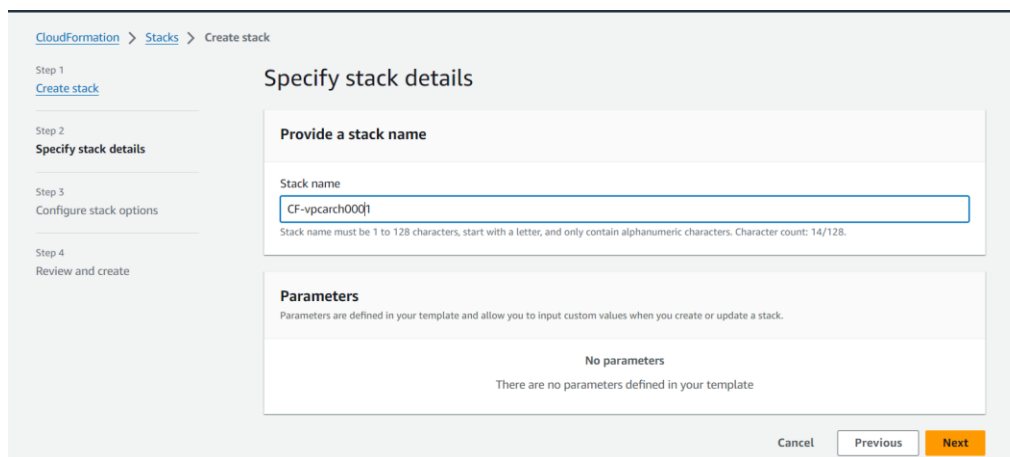
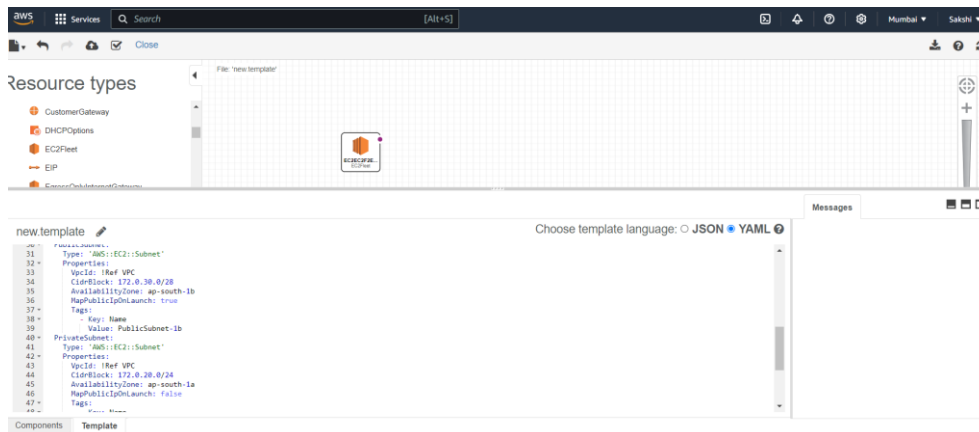
Search events

Timestamp	Logical ID	Status	Detailed status
2024-10-02 17:16:42 UTC+0530	instance-ebd-demo001	CREATE_COMPLETE	-
2024-10-02 17:16:41 UTC+0530	FirstLinuxEC2Instance	CREATE_COMPLETE	-
2024-10-02 17:16:17 UTC+0530	NewVolume	CREATE_COMPLETE	-
2024-10-02 17:16:15 UTC+0530	FirstLinuxEC2Instance	CREATE_IN_PROGRESS	-
2024-10-02 17:16:13 UTC+0530	FirstLinuxEC2Instance	CREATE_IN_PROGRESS	-

#### 4) Create VPC



## 5) VPC Architecture



## 6) Create RDS MYSQL Database Instance

