

PROVISION AN EC2 INSTANCE USING AWS CLOUD FORMATION

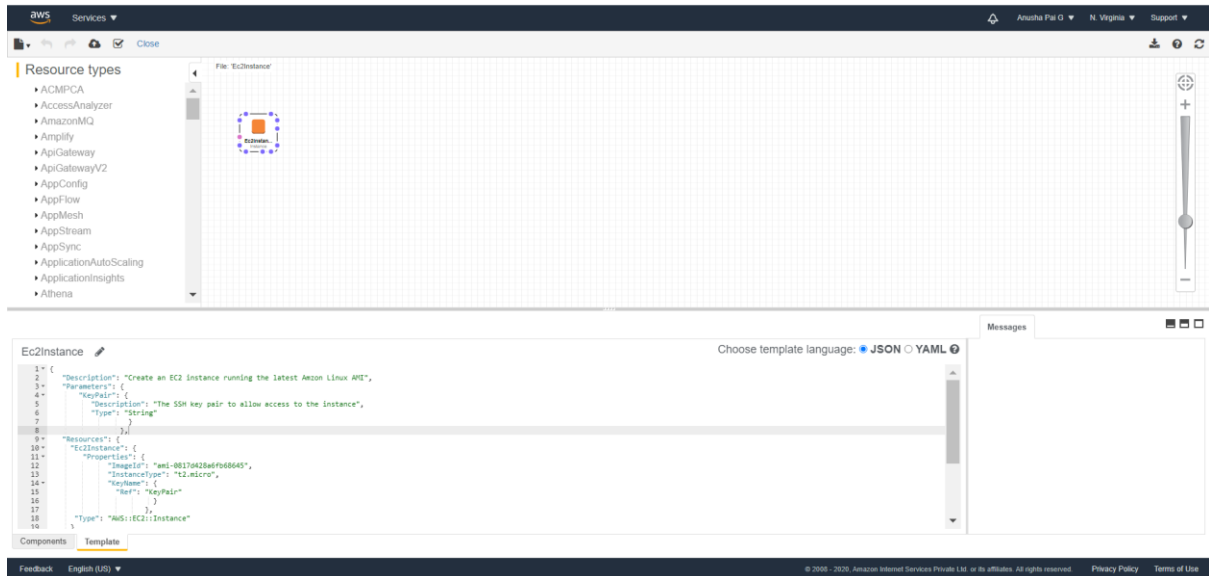
This POC shows how to spin up an Ubuntu 18.04 EC2 instance using AWS Cloud Formation

STEPS:

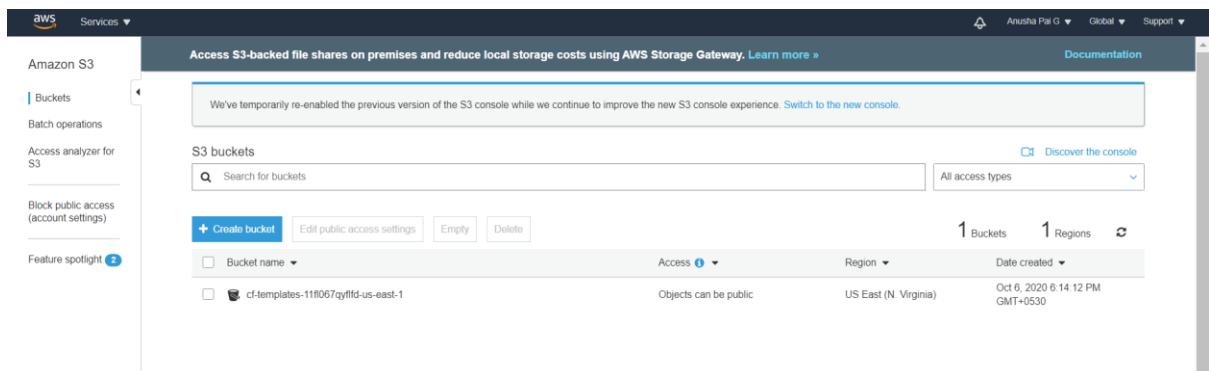
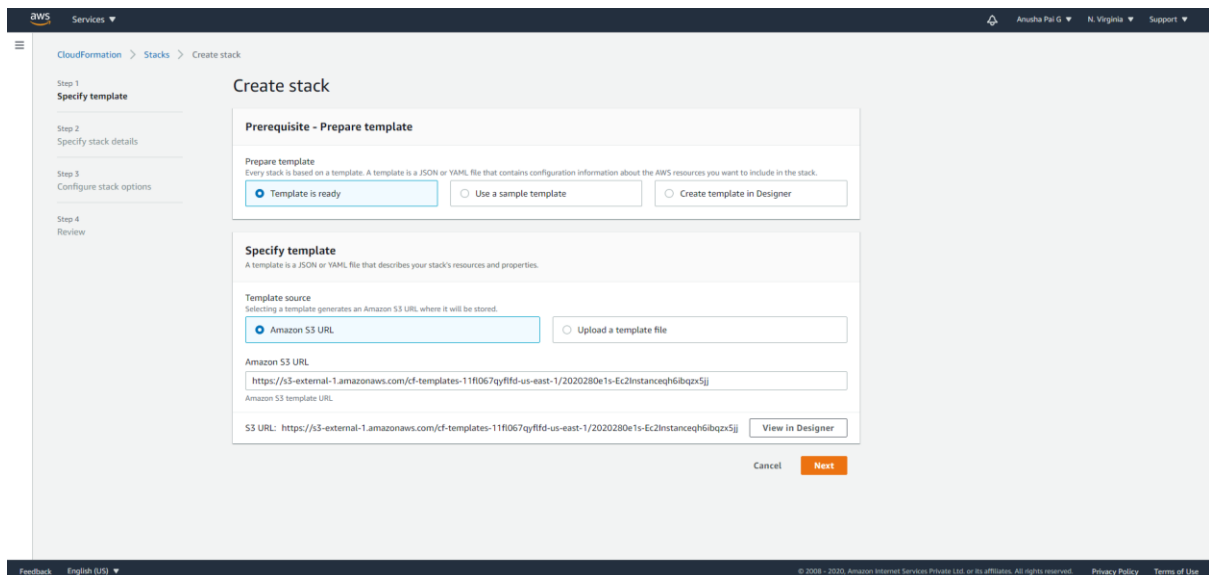
- 1) Create a stack by creating a template in designer

```
{
  "Description": "Create an EC2 instance running the latest Amzon Linux AMI",
  "Parameters": {
    "KeyPair": {
      "Description": "The SSH key pair to allow access to the instance",
      "Type": "String"
    }
  },
  "Resources": {
    "Ec2Instance": {
      "Properties": {
        "ImageId": "ami-0817d428a6fb68645",
        "InstanceType": "t2.micro",
        "KeyName": {
          "Ref": "KeyPair"
        }
      },
      "Type": "AWS::EC2::Instance"
    }
  },
  "Outputs": {
    "InstanceId": {
      "Description": "The instanceId of the newly created EC2 instance",
      "Value": {
        "Ref": "Ec2Instance"
      }
    }
  },
  "AWSTemplateFormatVersion": "2010-09-09"
}
```

- 2) As I had the template ready for use, I pasted the above sample template in designer and validated the template before creating the stack



3) The template gets uploaded to Amazon S3 for future use



4) Provide a name for the stack to be created and pass in the parameter value, in our case we have a parameter specification for SSH keypair to be a string input

aws Services

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

ec2launchstack

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.

KeyPair

The SSH key pair to allow access to the instance

lab

Cancel Previous Next

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5) Create the stack and monitor the progress of resource creation

aws Services

CloudFormation > Stacks > ec2launchstack

Stacks (1)

Filter by stack name

Active View nested

ec2launchstack
2020-10-06 18:19:35 UTC+0530
CREATE_COMPLETE

ec2launchstack

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

Events (5)

Search events

Timestamp	Logical ID	Status	Status reason
2020-10-06 18:20:15 UTC+0530	ec2launchstack	CREATE_COMPLETE	-
2020-10-06 18:20:13 UTC+0530	Ec2Instance	CREATE_COMPLETE	-
2020-10-06 18:19:41 UTC+0530	Ec2Instance	CREATE_IN_PROGRESS	Resource creation Initiated
2020-10-06 18:19:40 UTC+0530	Ec2Instance	CREATE_IN_PROGRESS	-
2020-10-06 18:19:35 UTC+0530	ec2launchstack	CREATE_IN_PROGRESS	User Initiated

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6) As expected, an EC2 instance is created and the instance ID is available in the Output upon successful creation of the EC2 instance

aws Services

CloudFormation > Stacks > ec2launchstack

Stacks (1)

Filter by stack name

Active View nested

ec2launchstack
2020-10-06 18:19:35 UTC+0530
CREATE_COMPLETE

ec2launchstack

Delete Update Stack actions Create stack

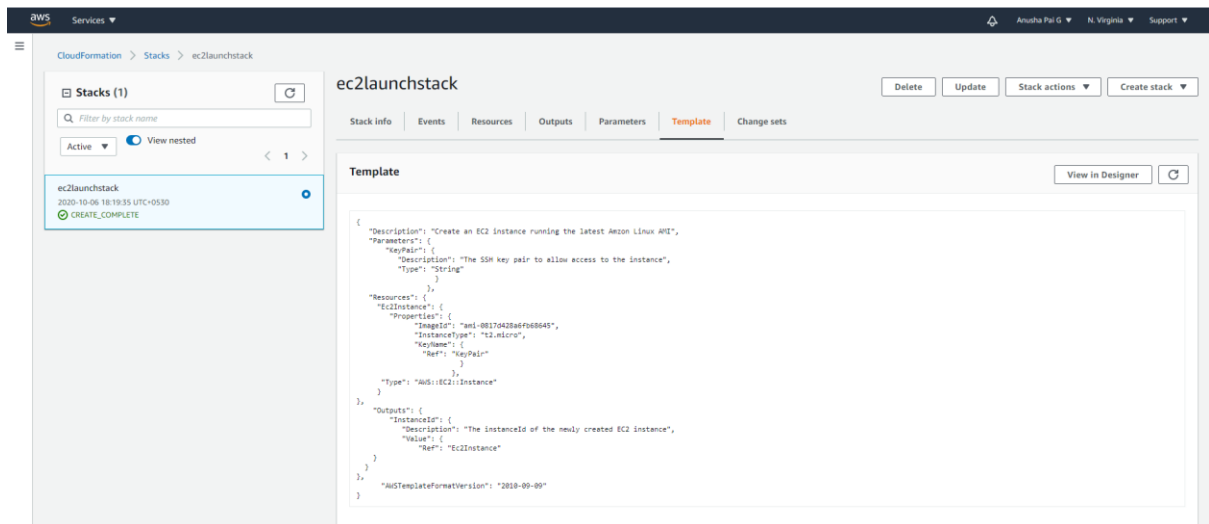
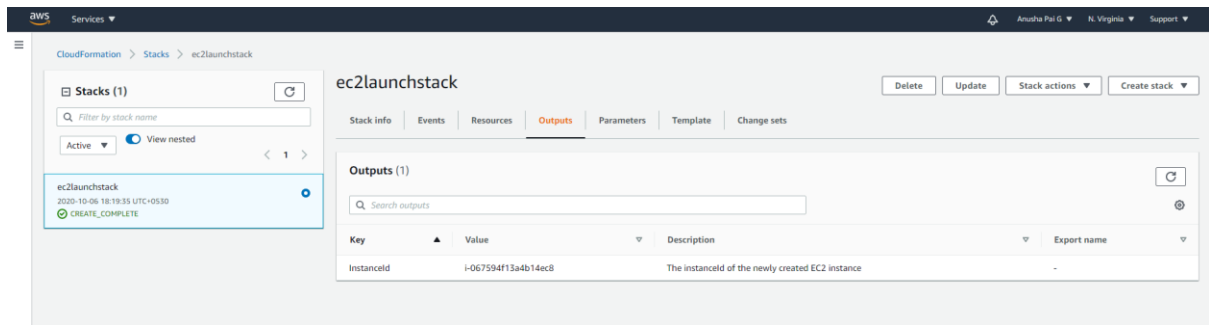
Stack info Events Resources Outputs Parameters Template Change sets

Resources (1)

Search resources

Logical ID	Physical ID	Type	Status	Status reason
Ec2Instance	i-067594f13a4b14ec8	AWS::EC2::Instance	CREATE_COMPLETE	-

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Below is the EC2 instance created using the AWS Cloud Formation template

