

## APPLICATION DEVELOPMENT ON CLOUD

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LAB-9: CLOUD FORMATION

### →Cloud Formation to create EC2 instance

Resources:

MyInstance:

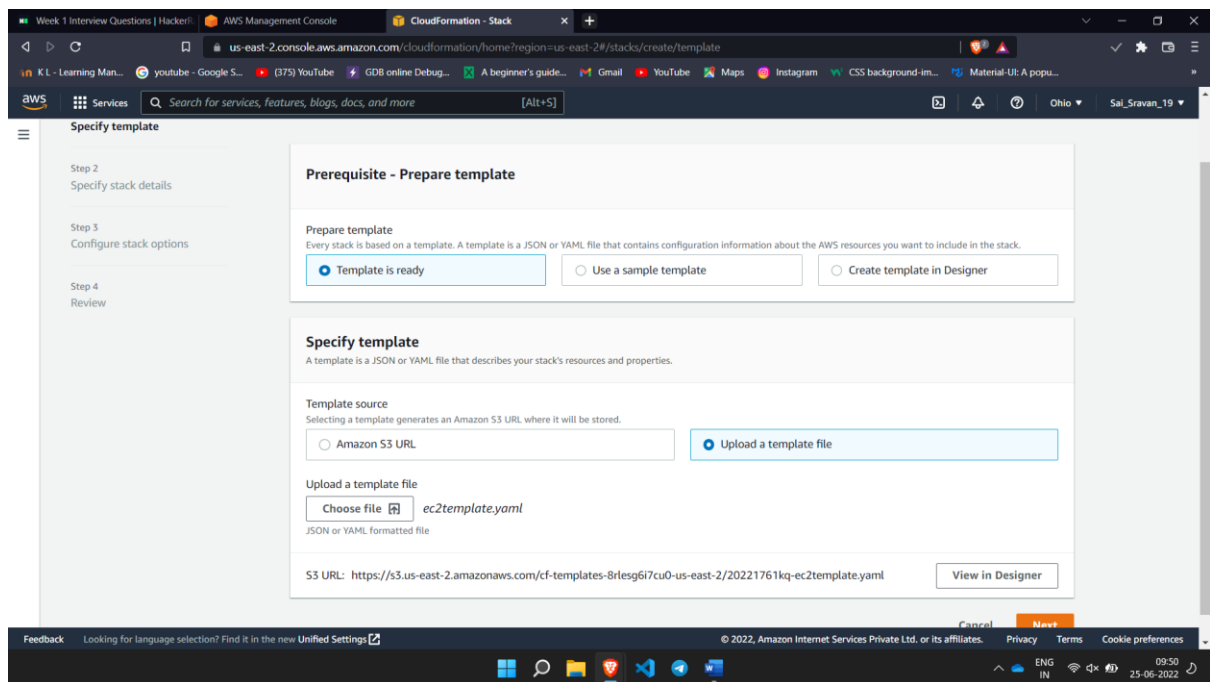
Type: AWS::EC2::Instance

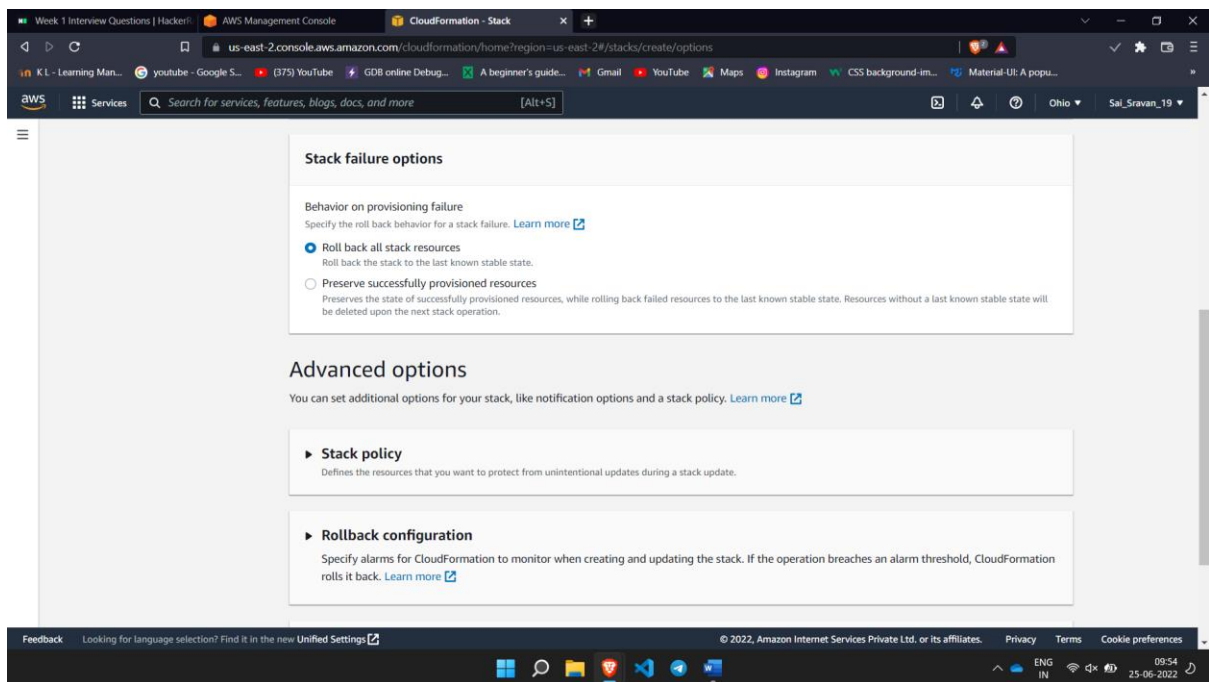
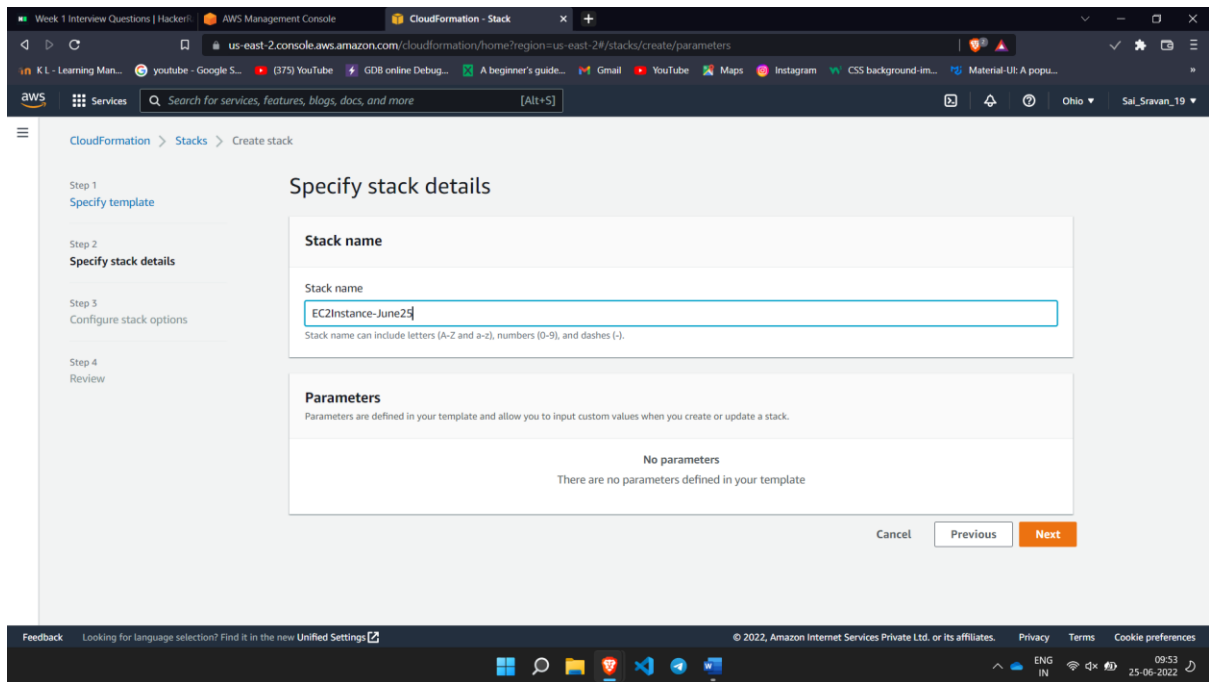
Properties:

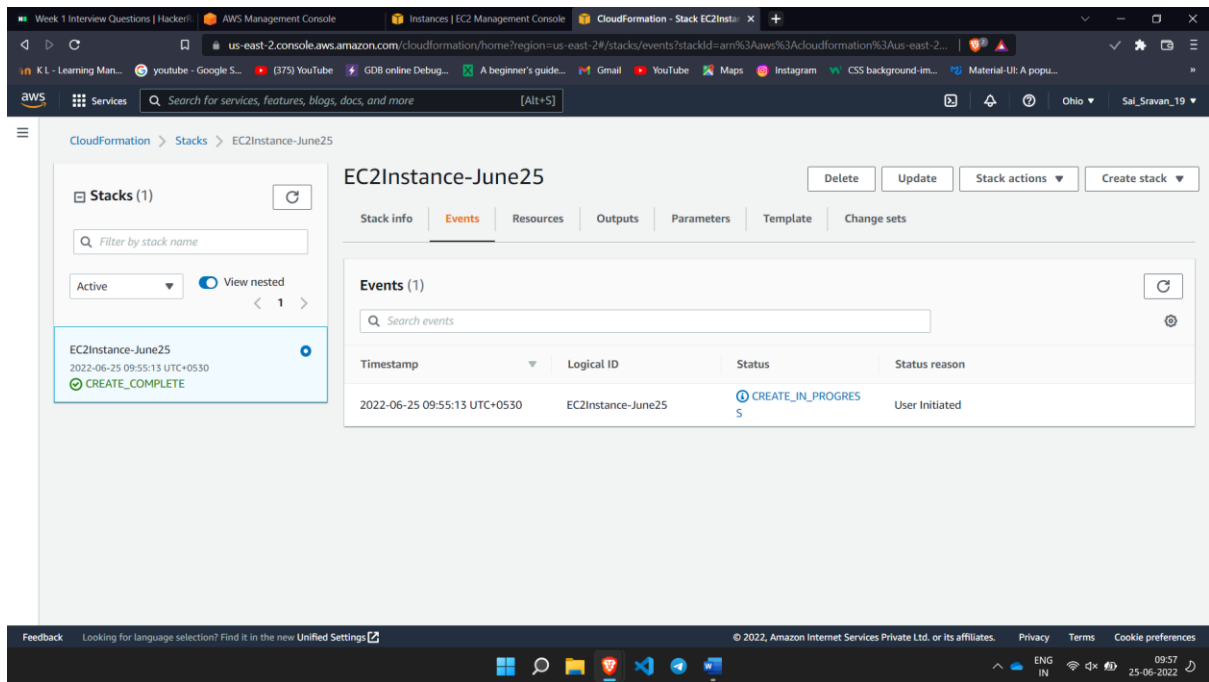
AvailabilityZone: us-east-2a

ImageId: ami-02d1e544b84bf7502

InstanceType: t2.micro







Stack got created and successfully created EC2 instance through cloud formation

## → Cloud formation to create lambda function

Template code:

```
{
  "Resources": {
    "HelloLambdaRole": {
      "Type": "AWS::IAM::Role",
      "Properties": {
        "RoleName": "HelloLambdaRole",
        "AssumeRolePolicyDocument": {
          "Statement": [
            {
              "Effect": "Allow",
              "Principal": {
                "Service": "lambda.amazonaws.com"
              },
              "Action": "sts:AssumeRole"
            }
          ]
        }
      }
    }
  }
}
```

```
}  
}  
,
```

```
"HelloLambdaFunction": {  
  "Type": "AWS::Lambda::Function",  
  "Properties": {  
    "FunctionName": "HelloLambdaFunction",  
    "Role": {  
      "Fn::GetAtt": ["HelloLambdaRole", "Arn"]  
    },  
    "Runtime": "python3.7",  
    "Handler": "index.my_handler",  
    "Code": {  
      "ZipFile": "def my_handler(event, context):\n message = \"Hello Lambda World!\"\n return  
message\n"  
    }  
  }  
}  
}
```

AWS Management Console

CloudFormation - Stack cloudformlamb... Onboard DevOps with AWS AWS:LambdaFunction - AWS Cloud

us-east-2.console.aws.amazon.com/cloudformation/home?region=us-east-2#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aus-east-2%3Astack%3Acloudformlamb... [Alt+S]

CloudFormation > Stacks > cloudformlambda-june29

Stacks (1)  Active View nested < 1 >

cloudformlambda-june29  
2022-06-29 09:46:18 UTC+05:30  
CREATE\_COMPLETE

### cloudformlambda-june29

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

#### Events (1)

Timestamp	Logical ID	Status	Status reason
2022-06-29 09:46:18 UTC+05:30	cloudformlambda-june29	CREATE_IN_PROGRES 5	User Initiated

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AWS Management Console

Functions - Lambda CloudFormation - Stack cloudformlamb... Onboard DevOps with AWS AWS:LambdaFunction - AWS Cloud

us-east-2.console.aws.amazon.com/lambda/home?region=us-east-2#/functions [Alt+S]

AWS Lambda

Dashboard Applications Functions

Additional resources  
Code signing configurations  
Layers  
Replicas

Related AWS resources  
Step Functions state machines

Lambda > Functions

Functions (1) Last fetched 10 seconds ago  Actions Create function

Function name	Description	Package type	Runtime	Last modified
HelloLambdaFunction	-	Zip	Python 3.7	39 seconds ago

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AWS Management Console

us-east-2.console.aws.amazon.com/lambda/home?region=us-east-2#/functions/HelloLambdaFunction?tab=code

The test event demoevent was successfully saved.

Code | Test | Monitor | Configuration | Aliases | Versions

Code source Info Upload from

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P)

index.py x Execution results x

Environment

- HelloLambdaFunc
- index.py

Execution results

Status: Succeeded Max memory used: 36 MB Time: 1.67 ms

Test Event Name

demoevent

Response

"Hello Lambda World!"

Function Logs

START RequestId: be912906-7d46-492a-b13c-94b2af0655bf Version: \$LATEST

END RequestId: be912906-7d46-492a-b13c-94b2af0655bf

REPORT RequestId: be912906-7d46-492a-b13c-94b2af0655bf Duration: 1.67 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memory Used: 36 MB Init Duration: 106.53 ms

Request ID

be912906-7d46-492a-b13c-94b2af0655bf

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