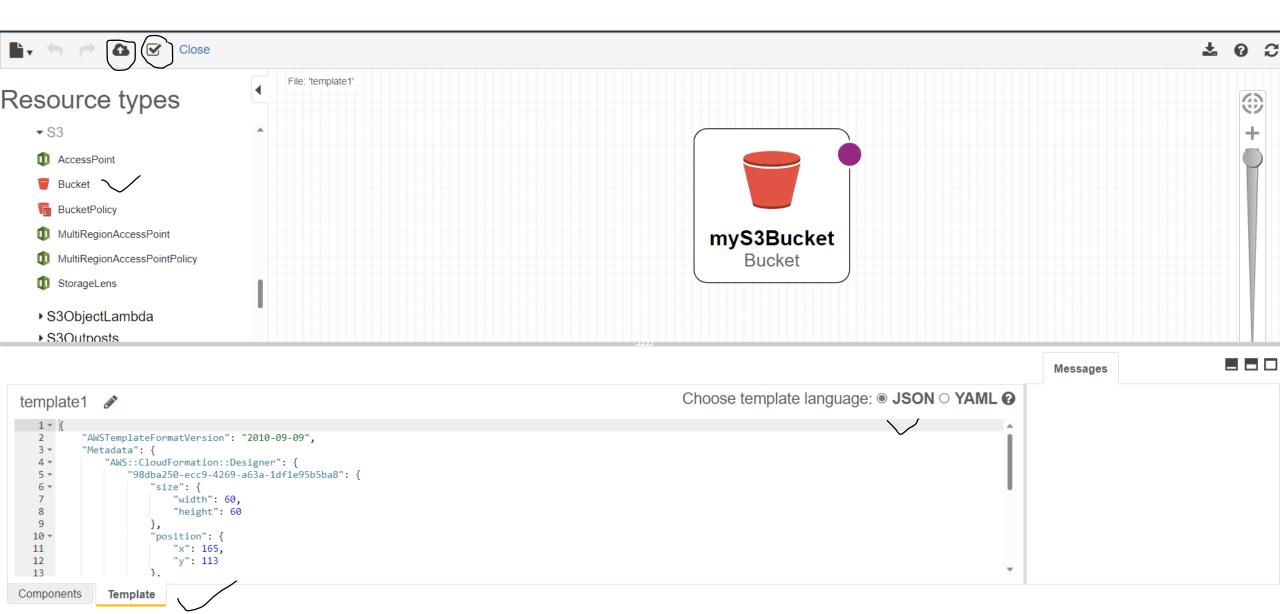
Problem Statement:

You work for XYZ Corporation. Your team is asked to deploy similar architecture multiple times for testing, development, and production purposes. Implement CloudFormation for the tasks assigned to you below.

Tasks To Be Performed:

- Create a template which can create an S3 bucket named "Intellipaat-<yourname >"
- 2. The template should be able to enable versioning for the bucket created.

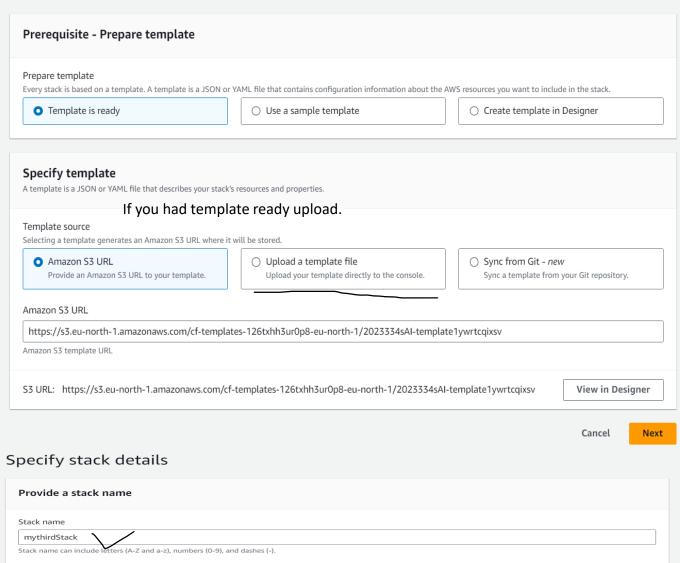
Search for the CloudFormation service – go in designer – choose the service you want to select like S3 bucket, drag and drop – go in template do the modification as requires – tick the correct icon which validate the code – at last click on cloud icon which initiate the stack formation process – REFRESH THE PAGE IF REQUIRES.



Create stack

Parameters

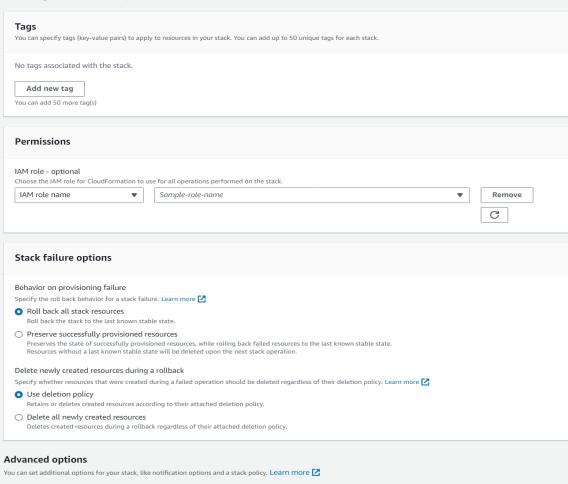
Parameters are defined in your template and allow you to input custom values when you create or update a stack.



No parameters

There are no parameters defined in your template

Configure stack options



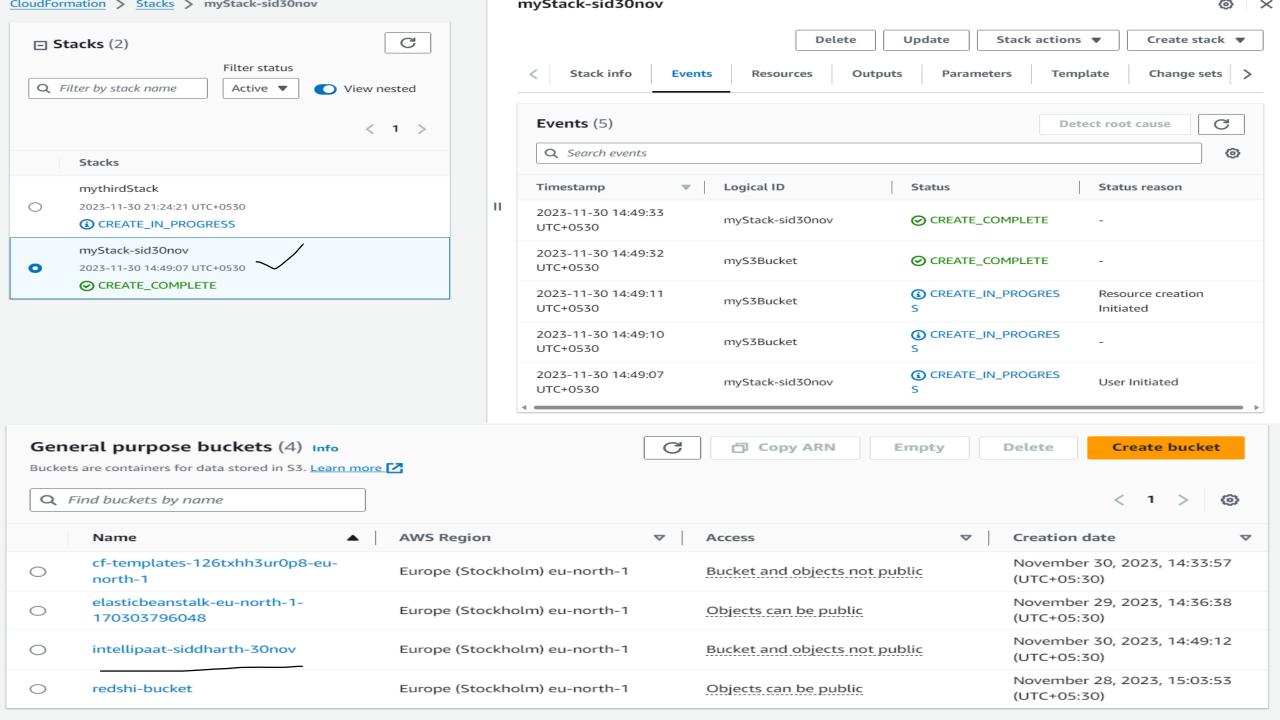


- Rollback configuration Specify alarms for CloudFormation to monitor when creating and updating the stack. If the operation breaches an alarm threshold, CloudFormation rolls it back.
- ▶ Notification options
- ▶ Stack creation options

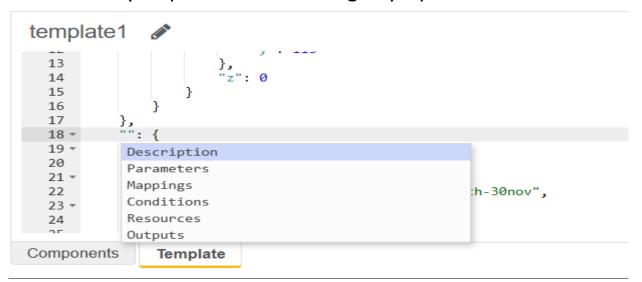
Cancel

Previous

Cancel Previous



Control key + space bar for adding any specification.



```
"AWSTemplateFormatVersion": "2010-09-09",
"Metadata": {
    "AWS::CloudFormation::Designer": {
        "98dba250-ecc9-4269-a63a-1df1e95b5ba8": {
            "size": {
                "width": 60,
                "height": 60
            "position": {
                "x": 165,
                "y": 113
            "z": 0
},
"Resources": {
    "myS3Bucket": {
        "Type": "AWS::S3::Bucket",
        "Properties": {
        "BucketName": "intellipaat-siddharth-30nov",
            "VersioningConfiguration": {
                "Status": "Enabled"
```

AWS Solutions Architect Training



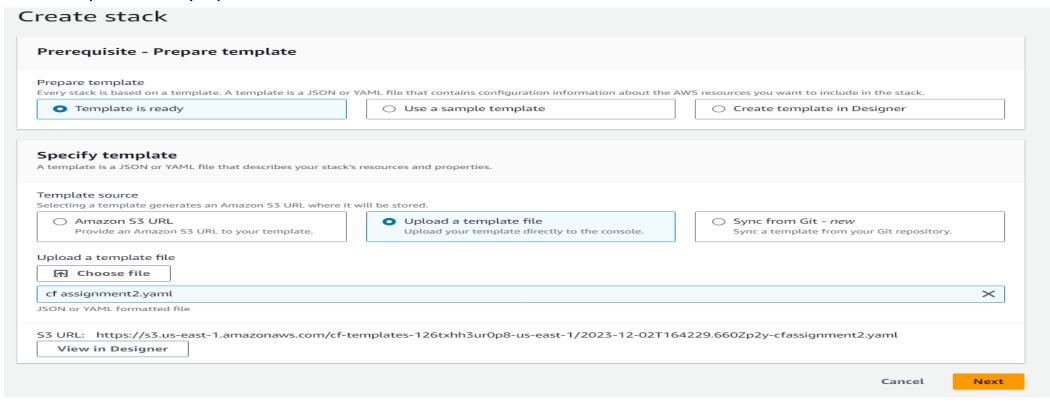
Problem Statement:

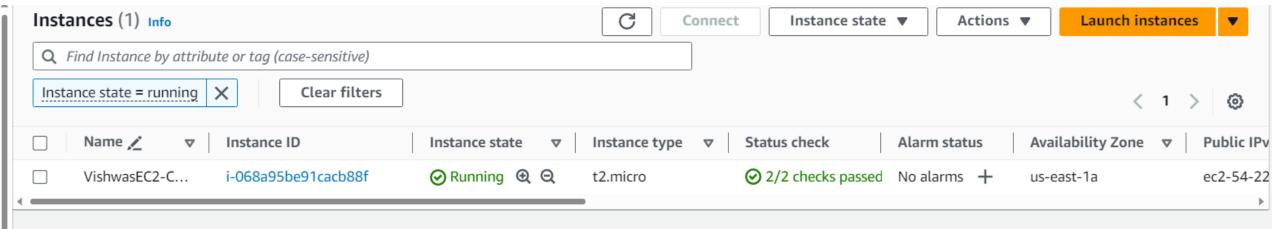
You work for XYZ Corporation. Your team is asked to deploy similar architecture multiple times for testing, development, and production purposes. Implement CloudFormation for the tasks assigned to you below.

Tasks To Be Performed:

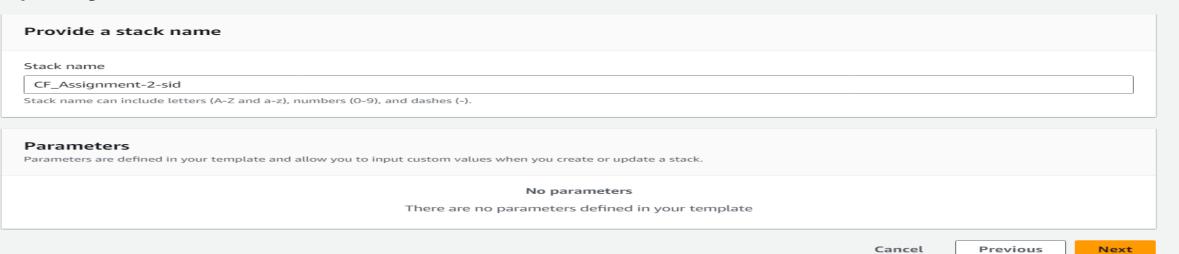
- 1. Create a template with 1 VPC and 1 public subnet.
- Launch an Amazon Linux EC2 instance in the public subnet and tag the instance as "CFinstance"

If you had a template ready upload in Json or YAML format.

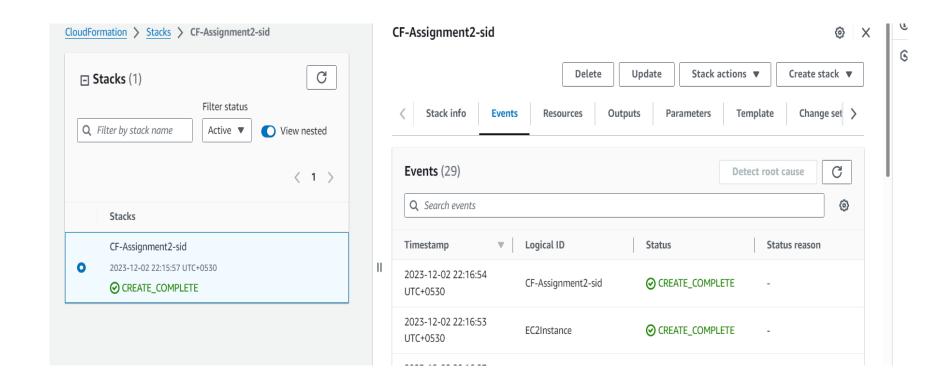




Specify stack details



Next



AWS Solutions Architect Training



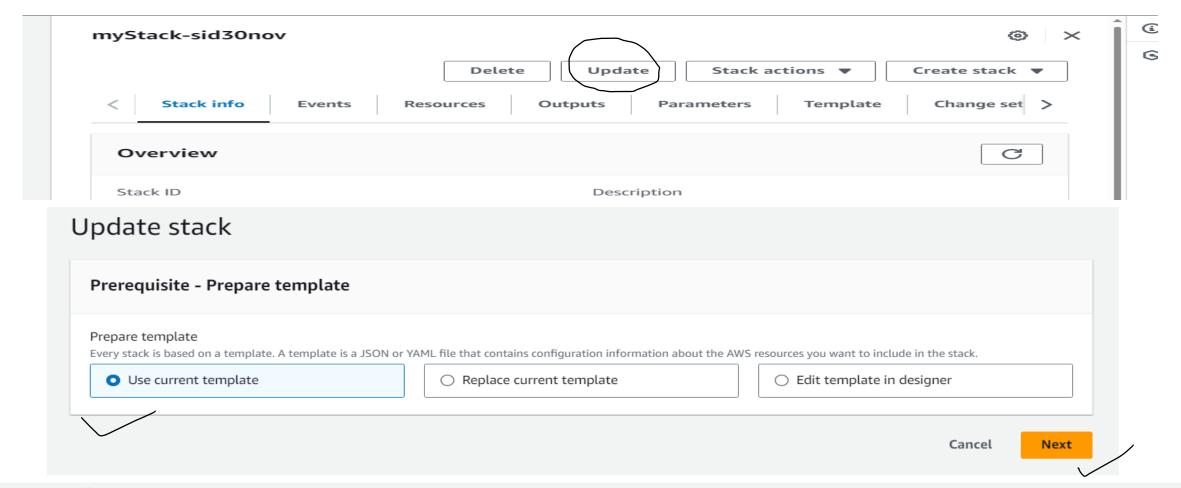
Problem Statement:

You work for XYZ Corporation. Your team is asked to deploy similar architecture multiple times for testing, development, and production purposes. Implement CloudFormation for the tasks assigned to you below.

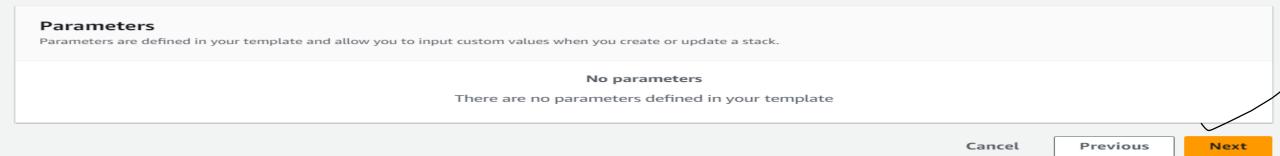
Tasks To Be Performed:

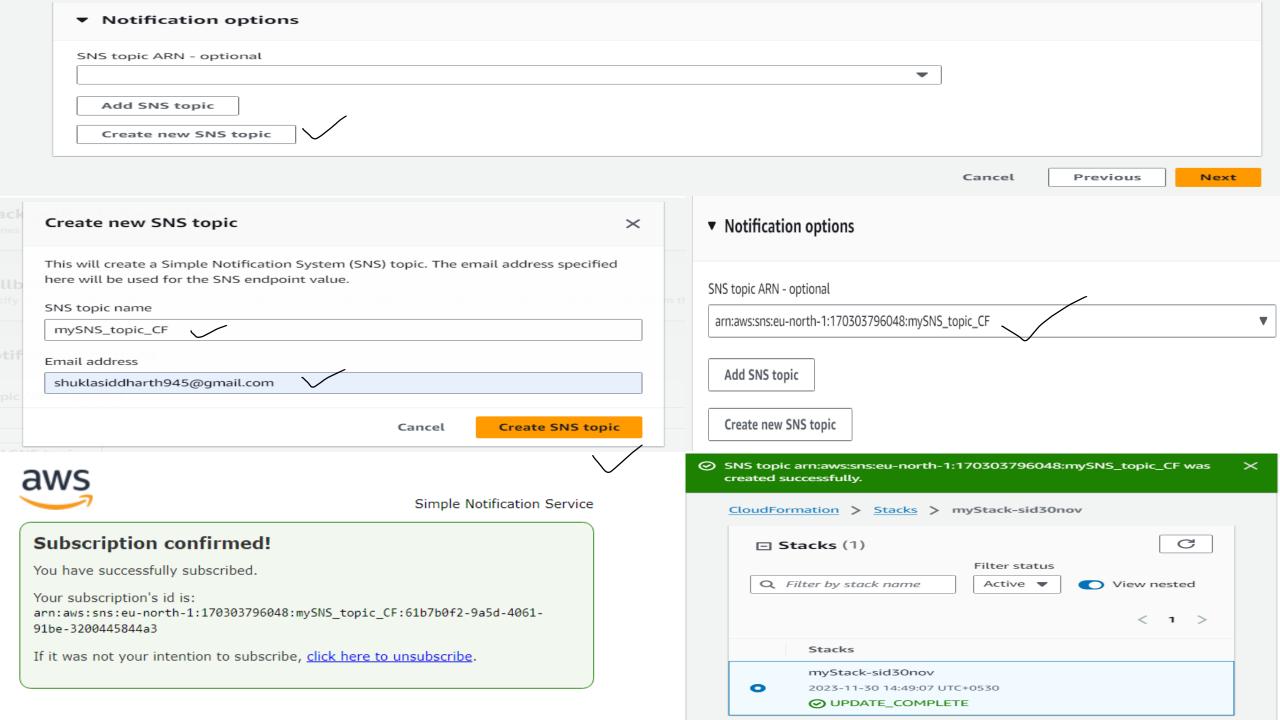
- 1. Use the template from CloudFormation task 1.
- Add Notification to the CloudFormation stack using SNS so that you get a notification via mail for every step of the stack creation process.

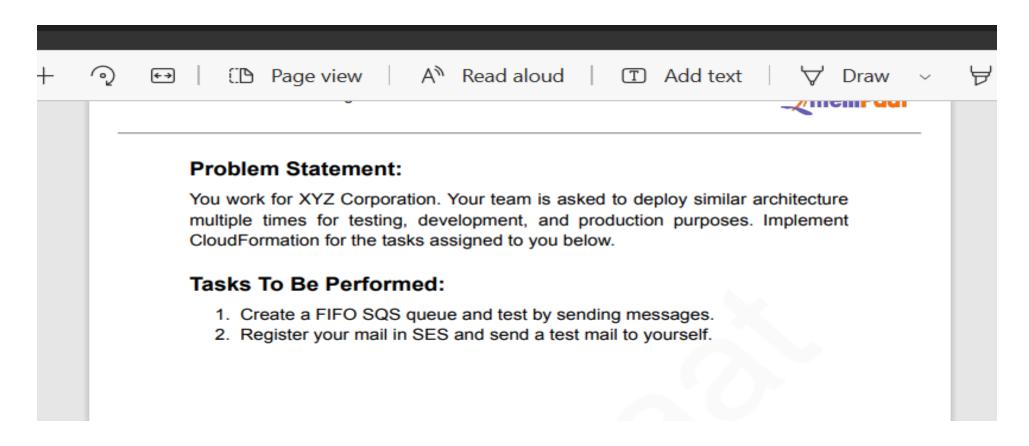
For getting SNS notifications we need to update this stack.



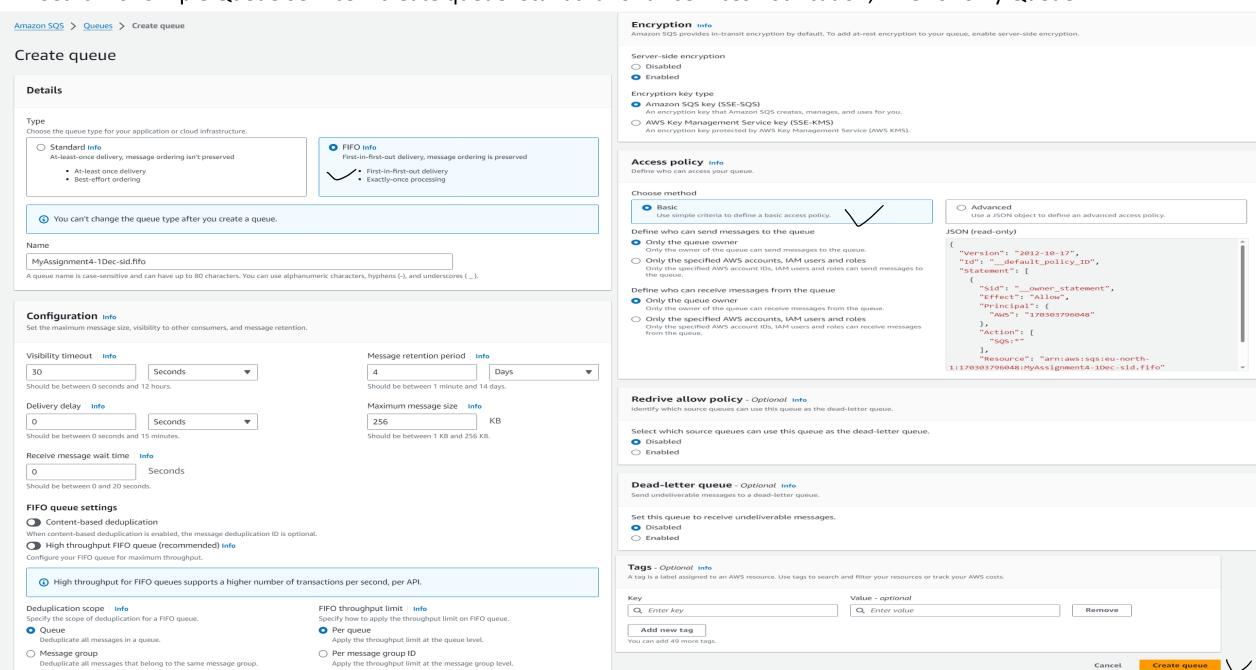
Specify stack details

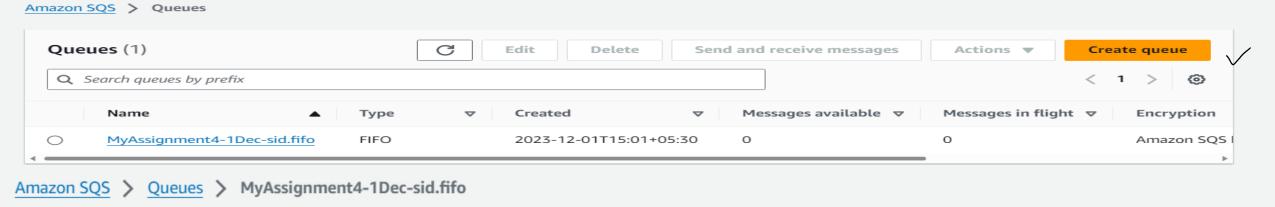






Search for Simple Queue Service – create queue. Standard for all services notification, FIFO for only Queue.





MyAssignment4-1Dec-sid.fifo

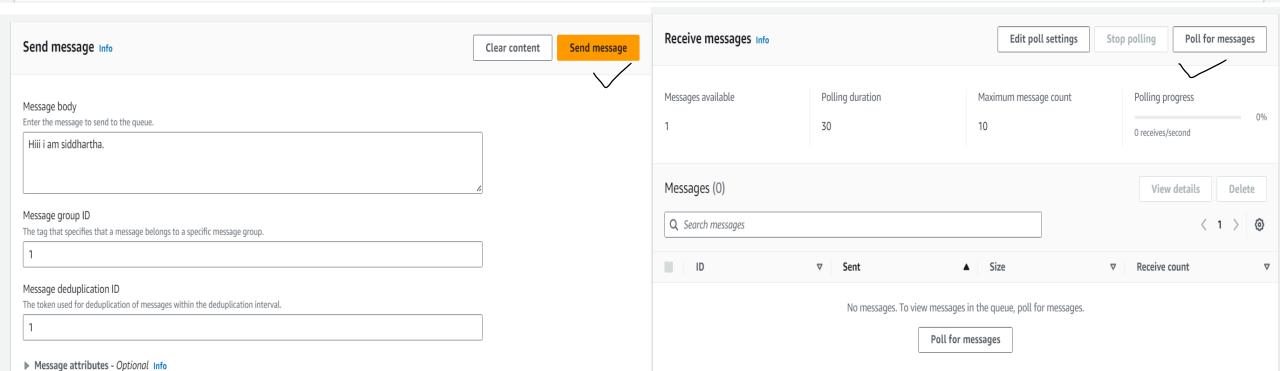
Edit Delete

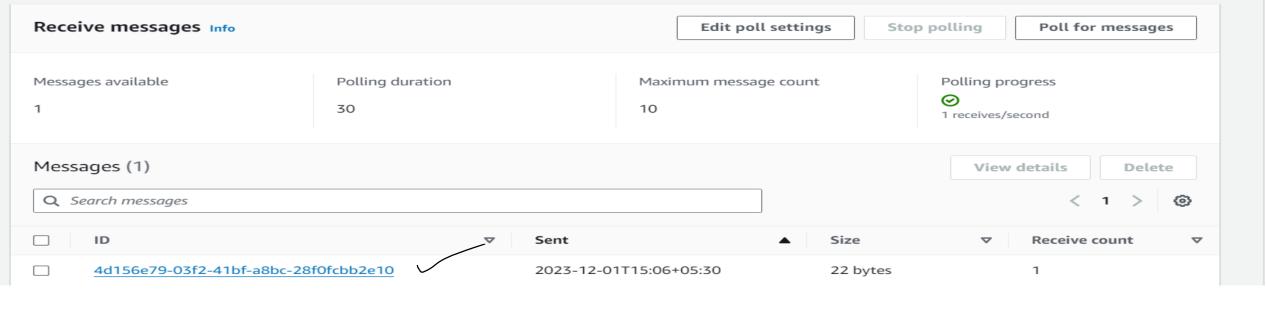
Purge

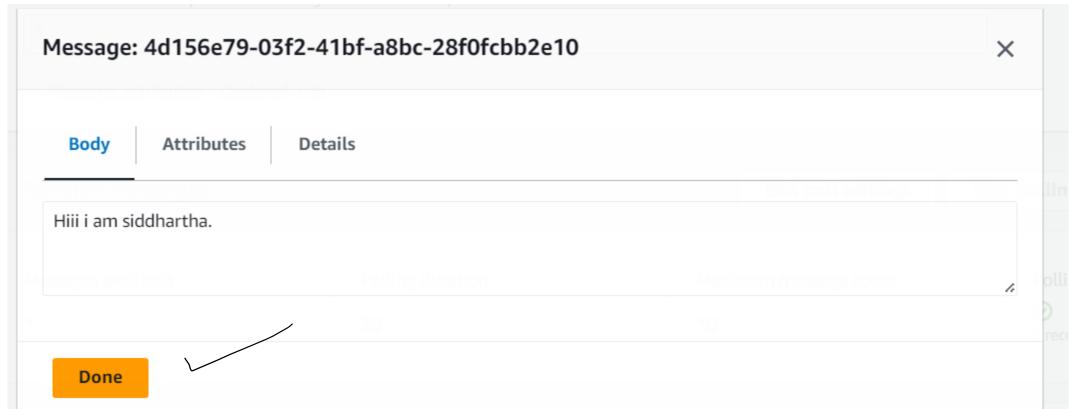
Send and receive messages

Start DLQ redrive

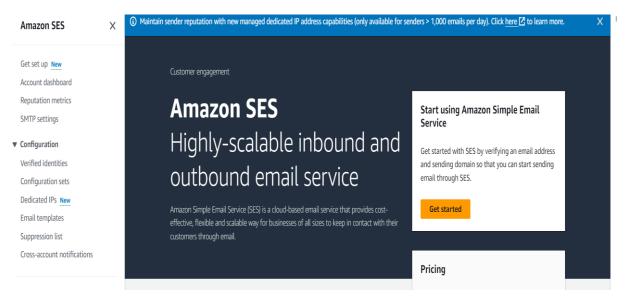
Details Info

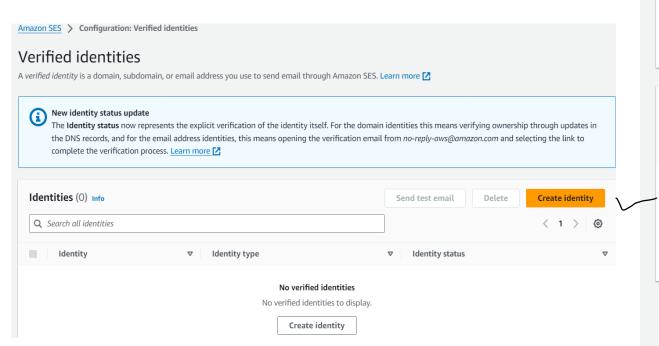






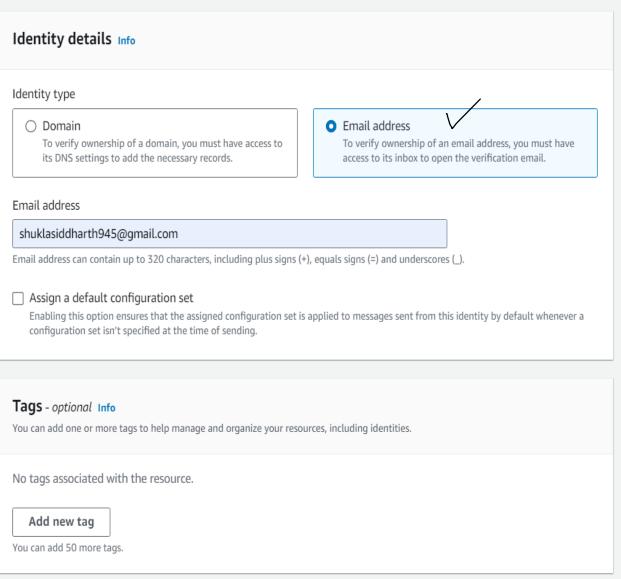
Search for Simple email service. Go for verified identities.





Create identity

A *verified identity* is a domain, subdomain, or email address you use to send email through Amazon SES. Identity verification at the domain level extends to all email addresses under one verified domain identity.



Cancel

Create identity

Congratulations!

You have successfully verified an email address. You can now start sending email from this address.

For new Amazon SES users — If you have not yet applied for a sending limit increase, then you are still in the <u>sandbox environment</u>, and you can only send email to addresses that have been verified. To verify a new email address or domain, see the **Identity Management** section of the Amazon SES console.

For new Amazon Pinpoint users — If you have not yet applied for a sending limit increase, then you are still in the <u>sandbox environment</u>, and you can only send email to addresses that have been verified. To verify a new email address or domain, see the **Settings > Channels** page on the Amazon Pinpoint console.

If you have already been approved for a sending limit increase, then you can start sending email to non-verified addresses.

Thank you for using Amazon Web Services!

Go to the Amazon SES detail page.

Amazon SES > Configuration: Verified identities > shuklasiddharth945@gmail.com

shuklasiddharth945@gmail.com

Delete

Send test email



Legacy TXT records

Domain verification in Amazon SES is now based on *DomainKeys Identified Mail (DKIM)*, an email authentication standard that receiving mail servers use to validate an email's authenticity. Configuring DKIM in your domain's DNS settings confirms to SES that you're the identity owner, eliminating the need for TXT records. Domain identities that were verified using TXT records do not need to be reverified; however, we still recommend enabling DKIM signatures to enhance the deliverability of your mail with DKIM-compliant email providers. **To access your legacy TXT records**, download Legacy TXT record set as .csv 🛂.

Summary for shuklasiddharth945@gmail.com

Identity status

Verified

Amazon Resource Name (ARN)

arn:aws:ses:eu-north-

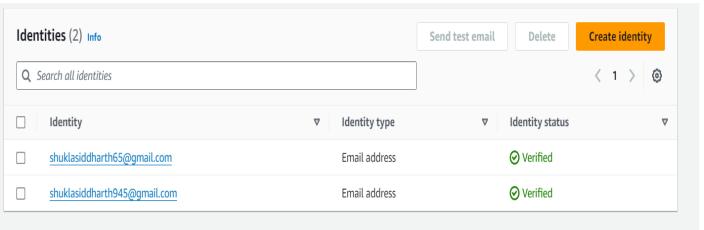
1:170303796048:identity/shuklasiddharth945@g mail.com

AWS Region

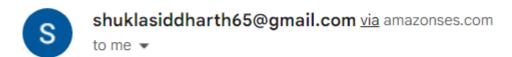
EU (Stockholm)

You can always use SES for only verified emails within SES. We can test by sending message from one email to

other.

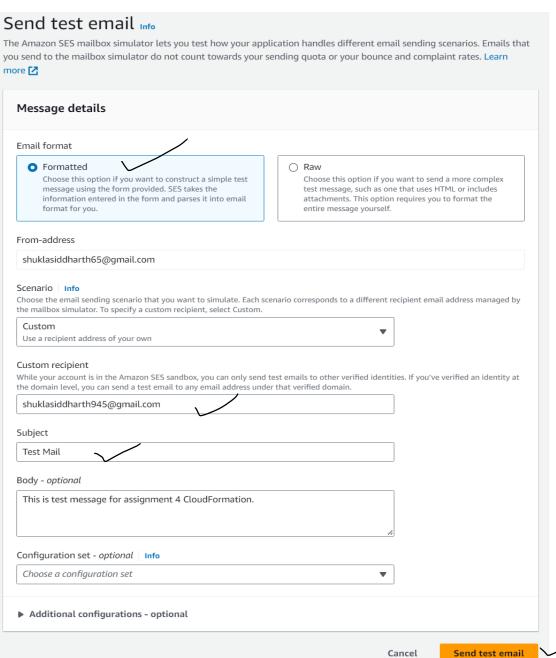


Test Mail Inbox x



This is test message for assignment 4 CloudFormation.





Case Study Cloud Formation

Problem Statement:

You work for XYZ Corporation. Your corporation wants to launch a new web-based application. The development team has prepared the code but it is not tested yet. The development team needs the system admins to build a web server to test the code but the system admins are not available.

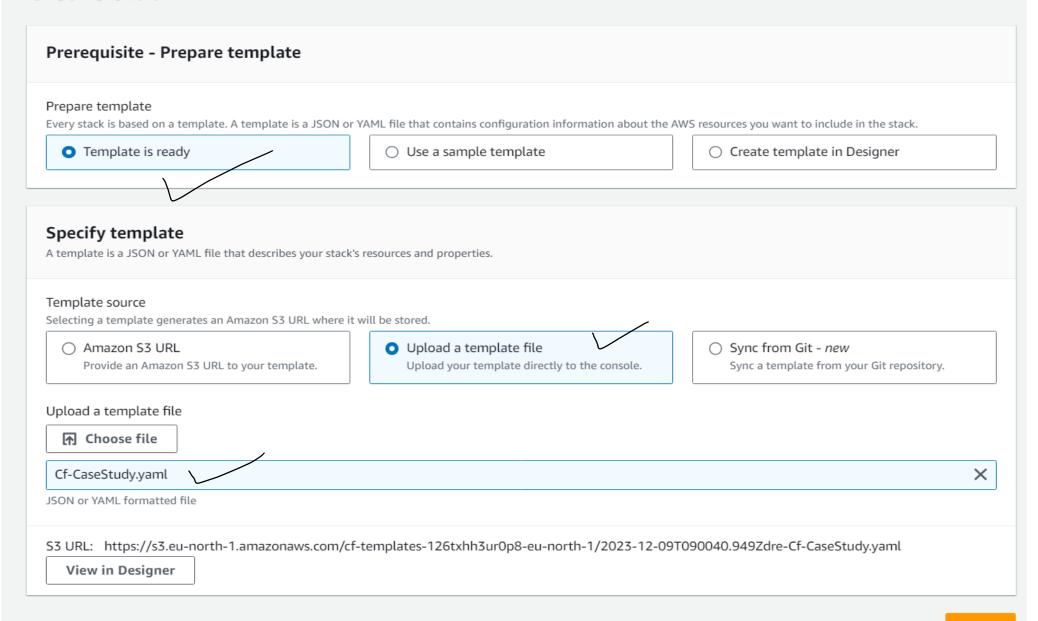
Tasks To Be Performed:

- Web tier: Launch an instance in a public subnet and that instance should allow HTTP and SSH from the internet.
- Application tier: Launch an instance in a private subnet of the web tier and it should allow only SSH from the public subnet of Web Tier-3.
- DB tier: Launch an RDS MYSQL instance in a private subnet and it should allow connection on port 3306 only from the private subnet of Application Tier-4.
- 4. Setup a Route 53 hosted zone and direct traffic to the EC2 instance.

You have been also asked to propose a solution so that:

- Development team can test their code without having to involve the system admins and can invest their time in testing the code rather than provisioning, configuring and updating the resources needed to test the code.
- Make sure when the development team deletes the stack, RDS DB instances should not be deleted.

Create stack



Specify stack details

Provide a stack name Enter stack name – choose keypair – enter any 8 character long master username and master password. Stack name Enter a stack name 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. AMI The Ubuntu AMI to use. ami-0b5eea76982371e91 InstanceTypeParameter Enter instance size. Default is t2.micro. t2.micro Key Select from Existing Keys. CloudFormation \blacksquare MasterUserPassword The password for the database. Enter String MasterUsername The username for the database. Enter String

