

CF S3 TEMPLATE TASK

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 which can create an S3 bucket named "Intellipaat-<your name>".
2. The template should be able to enable versioning from the created bucket

What is CloudFormation?

- CloudFormation is an amazing tool/service provided by AWS that allows us to create and manage our entire infrastructure as a code.
 - CloudFormation helps you replicate your application environment easily within a few clicks.
 - You simply declare your resources in a template and CloudFormation creates them in the right order. That's awesome
1. Prepare the template

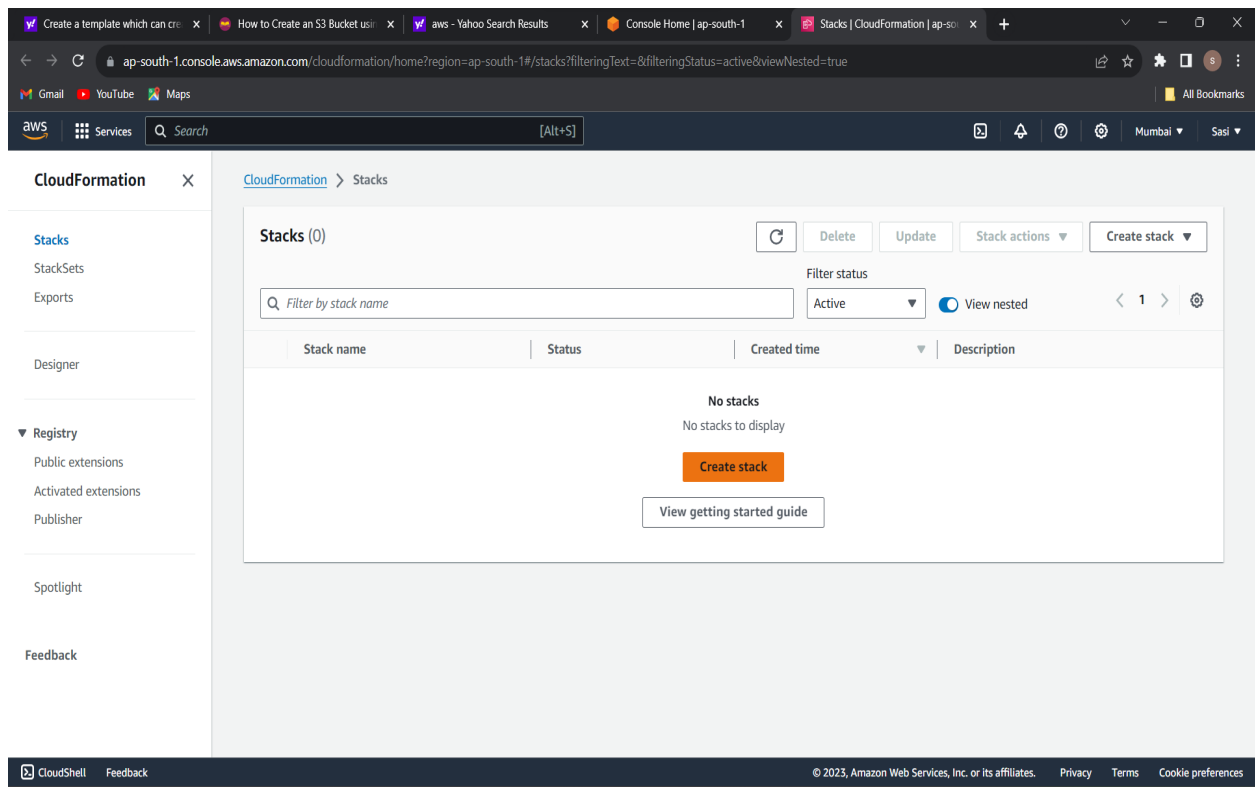
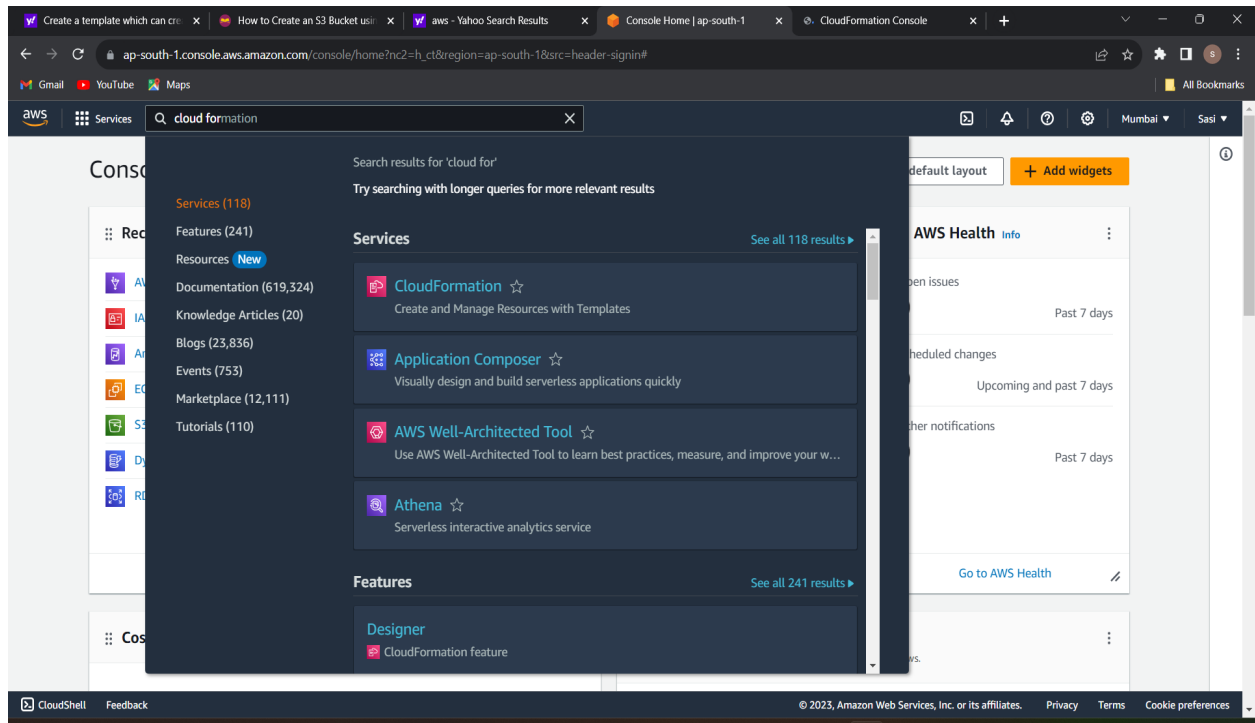
- Open an editor like Notepad or Notepad++
- Copy the content of the below code snippet into it. Save the file as firstbucket.yaml or anything of your choice ending with .yaml

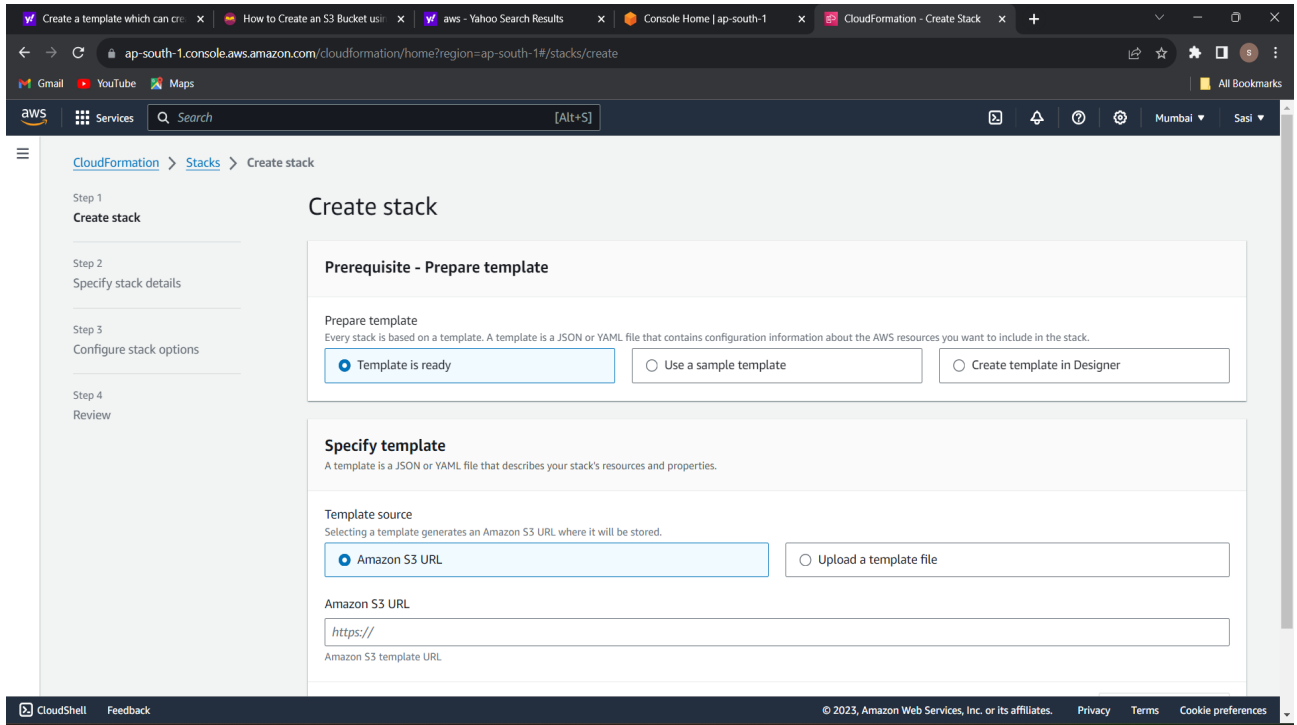
```
AWSTemplateFormatVersion: 2010-09-09
```

Resources:

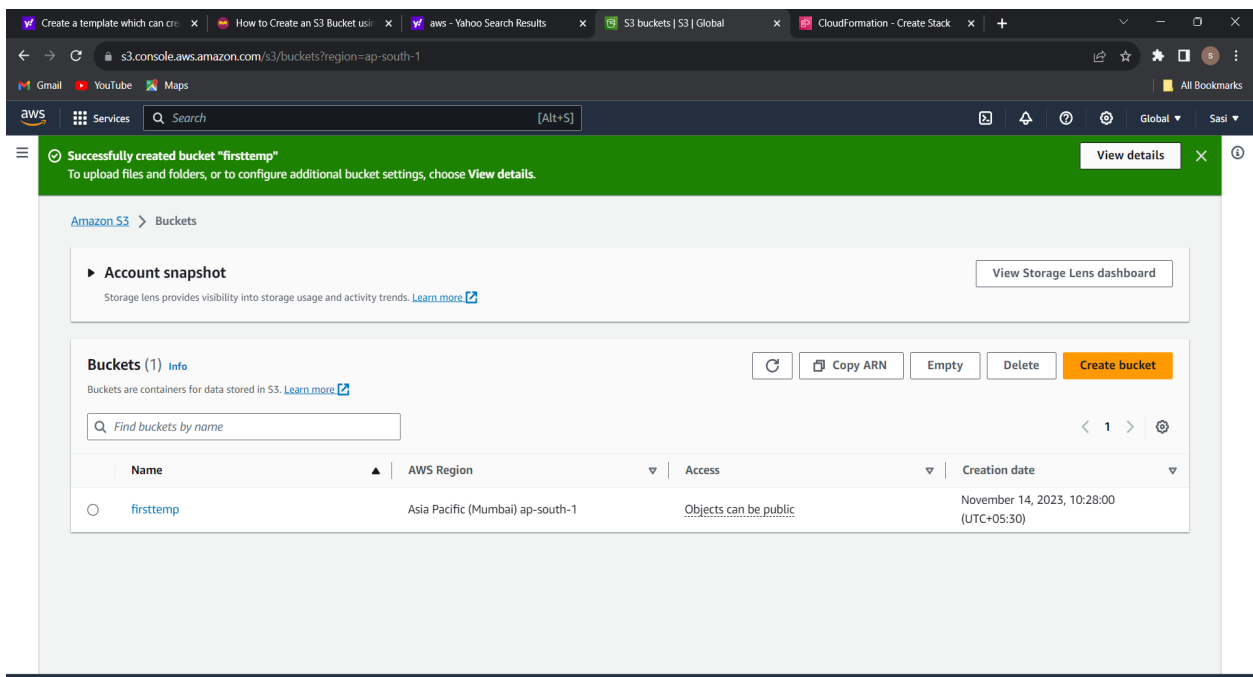
S3Bucket:

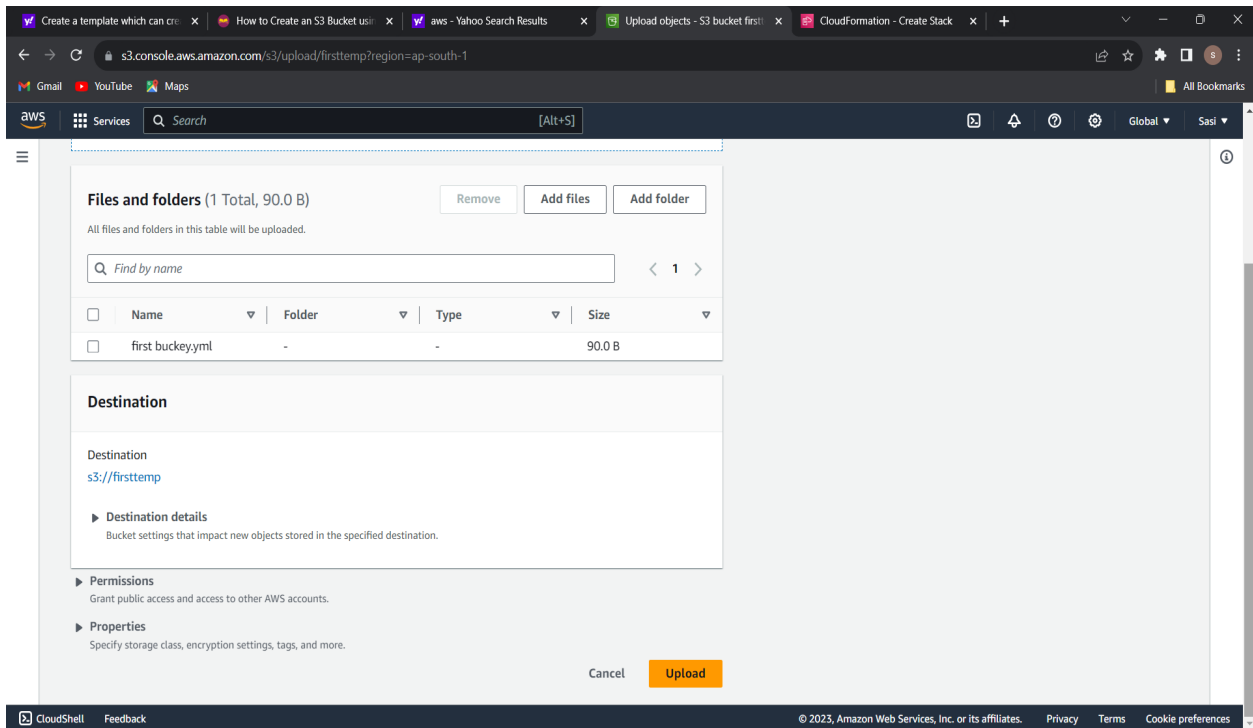
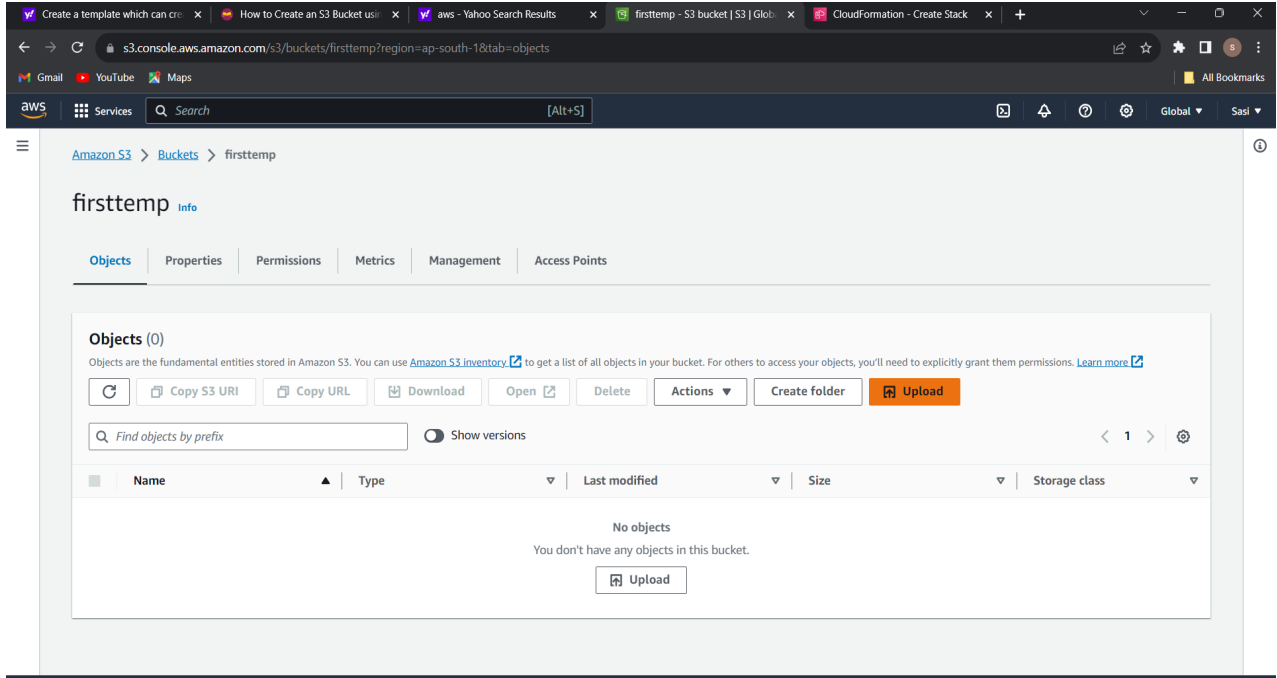
Type: AWS::S3::Bucket

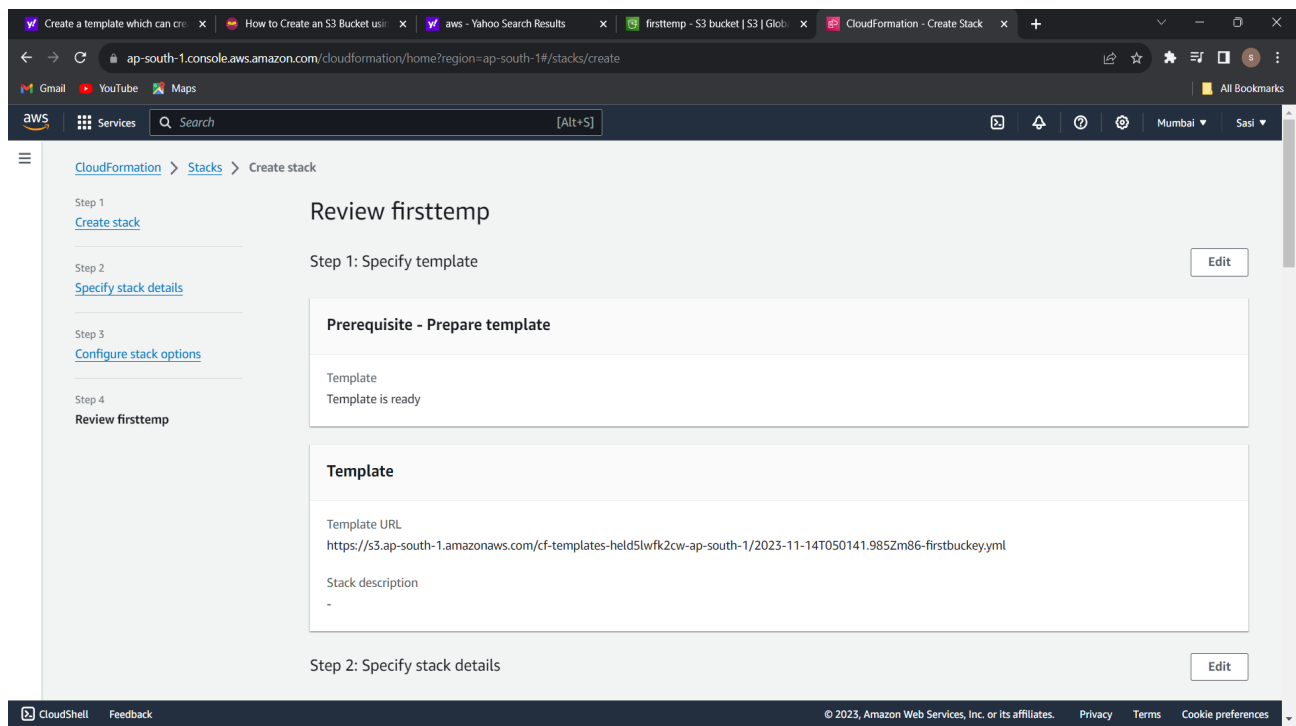
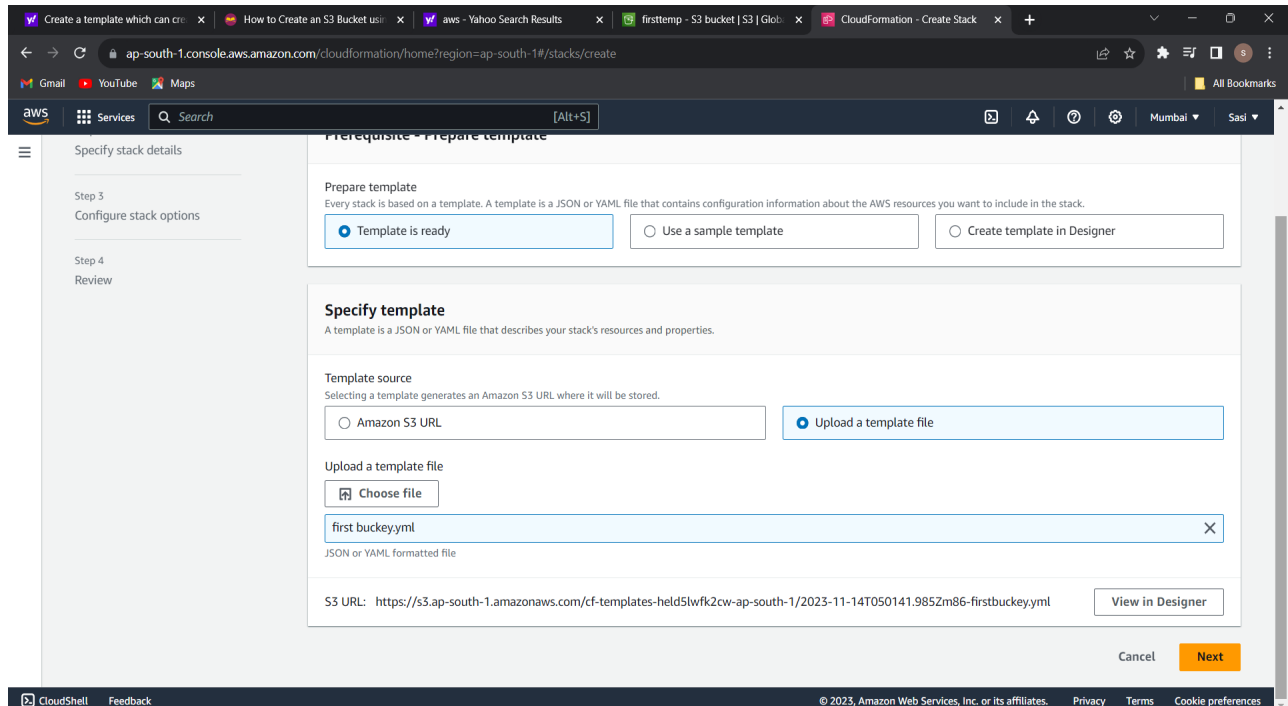




Create a stack







ap-south-1.console.aws.amazon.com/cloudformation/home?region=ap-south-1#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aap-south-1%3A457228467332%3Astack%2...

CloudFormation > Stacks > firsttemp

Stacks (1)

Filter status: Active View nested

Stacks

firsttemp
2023-11-14 10:32:37 UTC+0530
CREATE_IN_PROGRESS

firsttemp

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

Events (1)

Detect root cause

Search events

Timestamp	Logical ID	Status	Status reason
2023-11-14 10:32:37 UTC+0530	firsttemp	CREATE_IN_PROGRESS	User Initiated

CloudShell Feedback © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

ap-south-1.console.aws.amazon.com/cloudformation/home?region=ap-south-1#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aap-south-1%3A457228467332%3Astack%2...

CloudFormation > Stacks > firsttemp

Stacks (1)

Filter status: Active View nested

Stacks

firsttemp
2023-11-14 10:32:37 UTC+0530
CREATE_COMPLETE

firsttemp

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

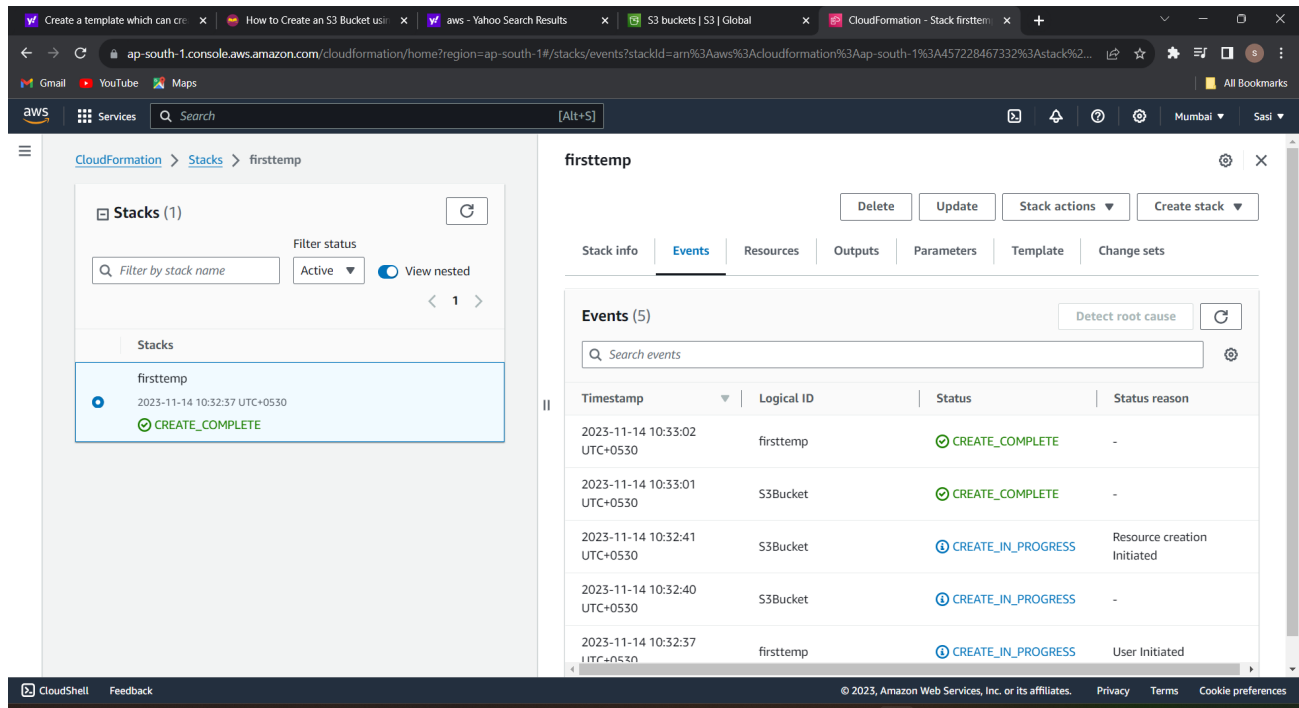
Events (5)

Detect root cause

Search events

Timestamp	Logical ID	Status	Status reason
2023-11-14 10:33:02 UTC+0530	firsttemp	CREATE_COMPLETE	-
2023-11-14 10:33:01 UTC+0530	S3Bucket	CREATE_COMPLETE	-
2023-11-14 10:32:41 UTC+0530	S3Bucket	CREATE_IN_PROGRESS	Resource creation Initiated
2023-11-14 10:32:40 UTC+0530	S3Bucket	CREATE_IN_PROGRESS	-
2023-11-14 10:32:37 UTC+0530	firsttemp	CREATE_IN_PROGRESS	User Initiated

CloudShell Feedback © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences



2)

CloudFormation Template to Enable Versioning on a Bucket

AWSTemplateFormatVersion: 2010-09-09

Description: CloudFormation template for s3 bucket

Resources:

S3 Bucket:

Type: AWS::S3::Bucket

Description: Creating Amazon S3 bucket from CloudFormation

Properties:

BucketName: i-named-this-bucket

VersioningConfiguration:

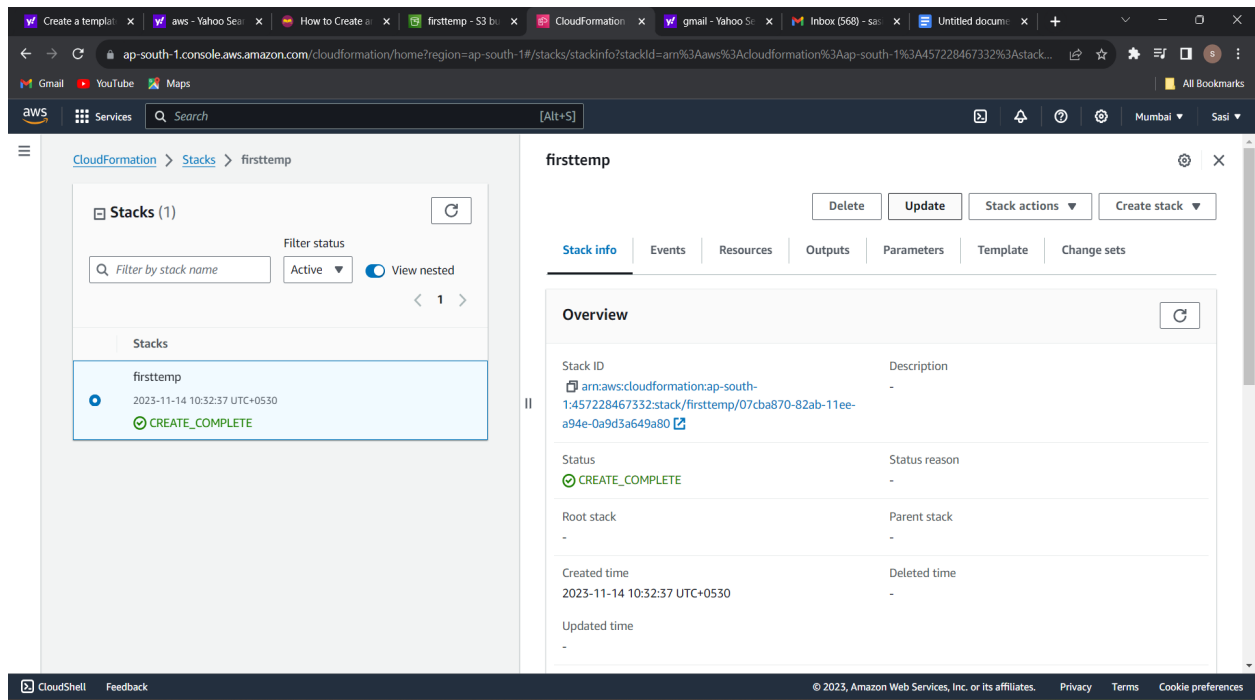
Status: Enabled

Outputs:

S3 Bucket:

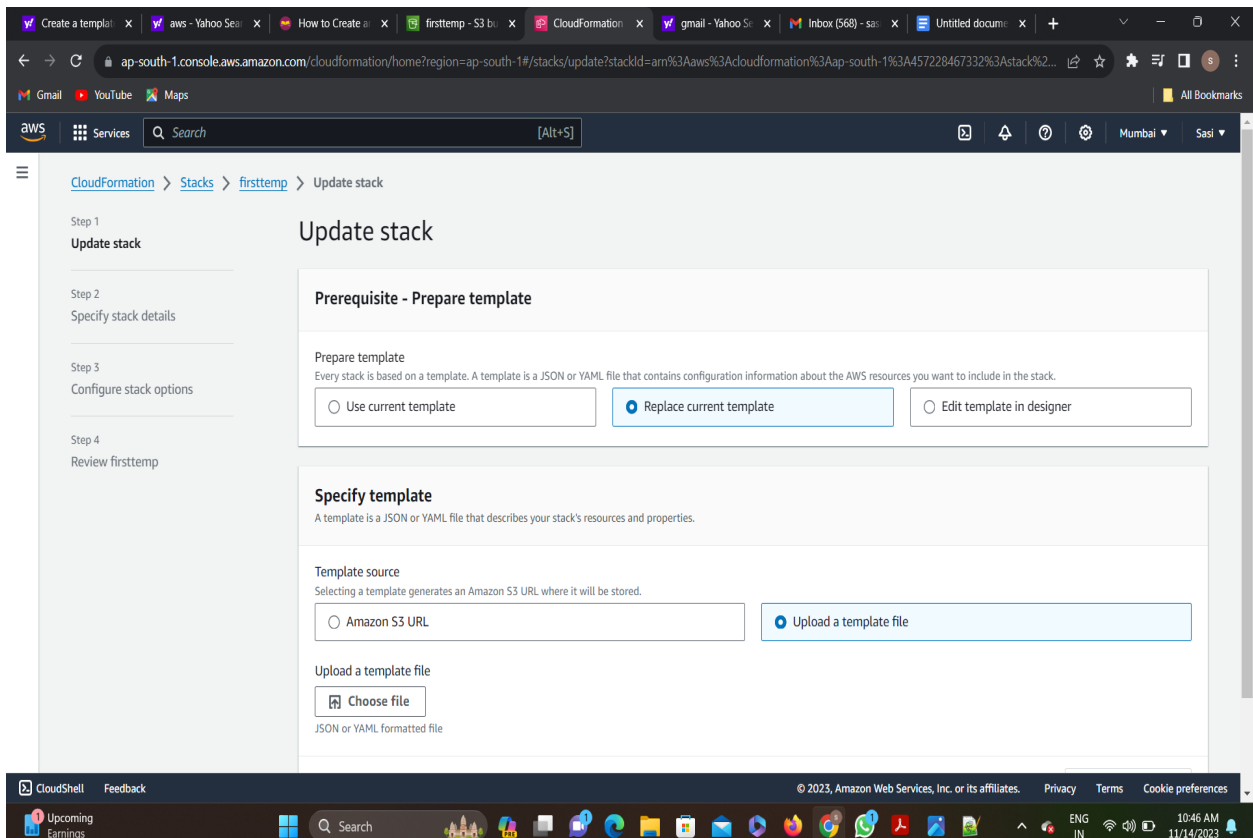
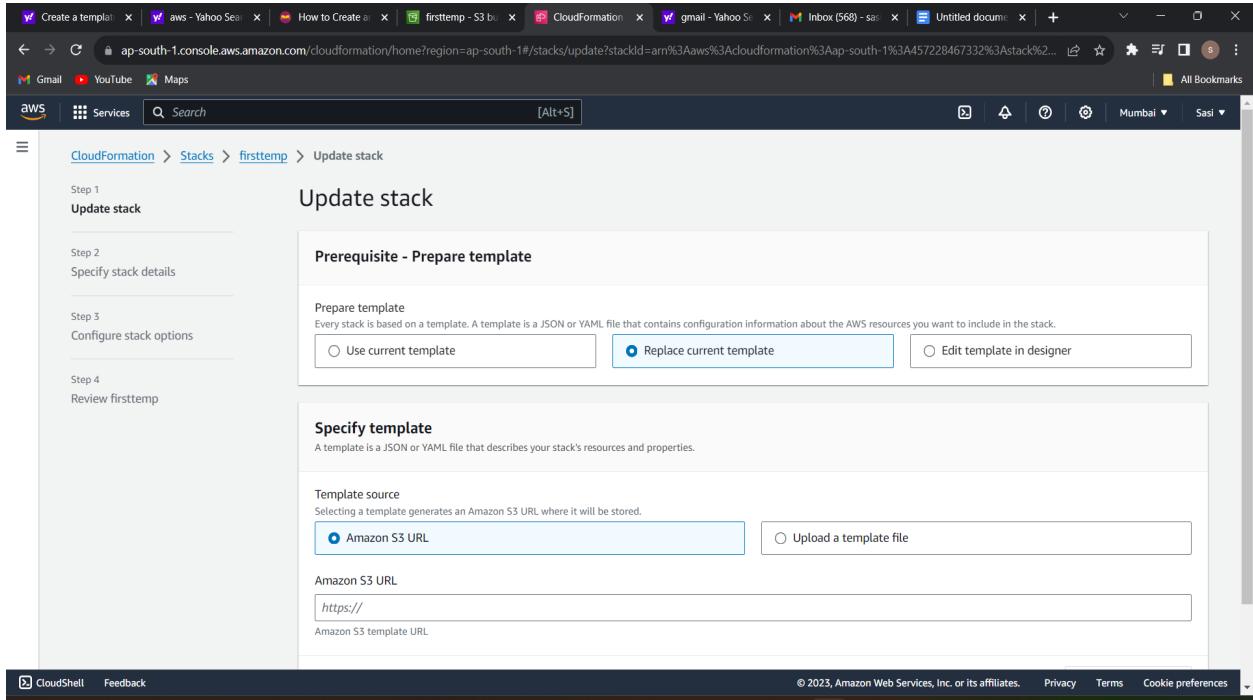
Description: Bucket Created using this template.

Value: !Ref S3 Bucket



Upload the newly saved template. Click Next, Next. Leave the Configure stack option to default and click next.

The stack is updated and if you go to the S3 console and check your bucket properties. You can see that versioning is enabled on the bucket now.



ap-south-1.console.aws.amazon.com/cloudformation/home?region=ap-south-1#/stacks/update?stackId=arn%3Aaws%3Acloudformation%3Aap-south-1%3A457228467332%3Astack%2...

Prepare template

Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

☐ Use current template ☒ Replace current template ☐ Edit template in designer

Specify template

A template is a JSON or YAML file that describes your stack's resources and properties.

Template source
Selecting a template generates an Amazon S3 URL where it will be stored.

☐ Amazon S3 URL ☒ Upload a template file

Upload a template file

s3 versioning.yml
JSON or YAML formatted file

S3 URL: <https://s3.ap-south-1.amazonaws.com/cf-templates-held5lwfk2cw-ap-south-1/2023-11-14T051647.936Ztgm-s3versioning.yml>

ap-south-1.console.aws.amazon.com/cloudformation/home?region=ap-south-1#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aap-south-1%3A457228467332%3Astack%2...

firsttemp

Stack info **Events** Resources Outputs Parameters Template Change sets

Events (6)

Timestamp	Logical ID	Status	Status reason
2023-11-14 10:47:07 UTC+0530	firsttemp	UPDATE_IN_PROGRESS	User Initiated
2023-11-14 10:33:02 UTC+0530	firsttemp	CREATE_COMPLETE	-
2023-11-14 10:33:01 UTC+0530	S3Bucket	CREATE_COMPLETE	-
2023-11-14 10:32:41 UTC+0530	S3Bucket	CREATE_IN_PROGRESS	Resource creation Initiated
2023-11-14 10:32:40 UTC+0530	S3Bucket	CREATE_IN_PROGRESS	-

