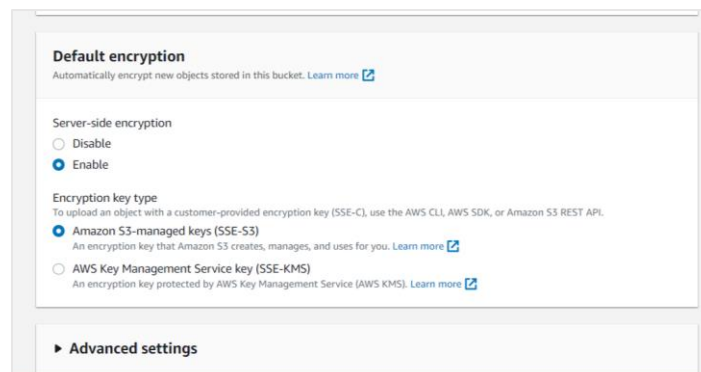
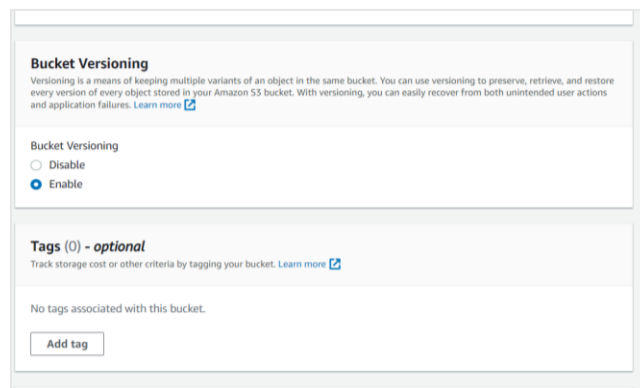
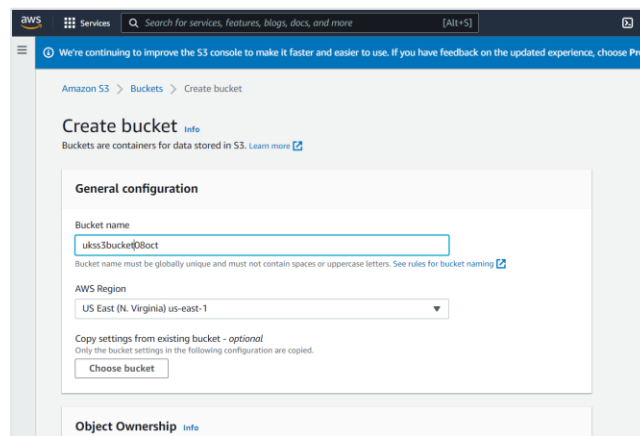
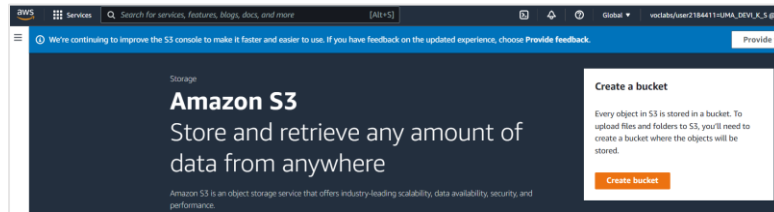


Assignment 5:

Create S3 bucket with static website hosting property enabled using cloud formation automation template

Step 1: Create S3 bucket with static website host. Below are the screenshots for the S3 bucket creation.



Object Ownership [Info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☐ **ACLs disabled (recommended)**
 All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☒ **ACLs enabled**
 Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership

☒ **Bucket owner preferred**
 If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

☐ **Object writer**
 The object writer remains the object owner.

Info If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#)

S3 bucket create successfully.

Successfully created bucket "ukss3bucket08oct" [View details](#)
 To upload files and folders, or to configure additional bucket settings choose [View details](#).

Replicate your data to any storage class to save on storage costs. [Get started](#)

Amazon S3 > Buckets

Account snapshot [View Storage Lens dashboard](#)
 Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Buckets (1) [Info](#)
 Buckets are containers for data stored in S3. [Learn more](#)

Find buckets by name

Name	AWS Region	Access	Creation date
ukss3bucket08oct	US East (N. Virginia) us-east-1	Objects can be public	October 8, 2022, 13:10:06 (UTC+05:30)

Amazon S3 > Buckets > ukss3bucket08oct

ukss3bucket08oct [Info](#)

[Objects](#) | [Properties](#) | [Permissions](#) | [Metrics](#) | [Management](#) | [Access Points](#)

Objects (0)
 Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

[Refresh](#) | [Copy S3 URI](#) | [Copy URL](#) | [Download](#) | [Open](#) | [Delete](#) | [Actions](#) | [Create folder](#) | [Upload](#)

Find objects by prefix ☐ Show versions

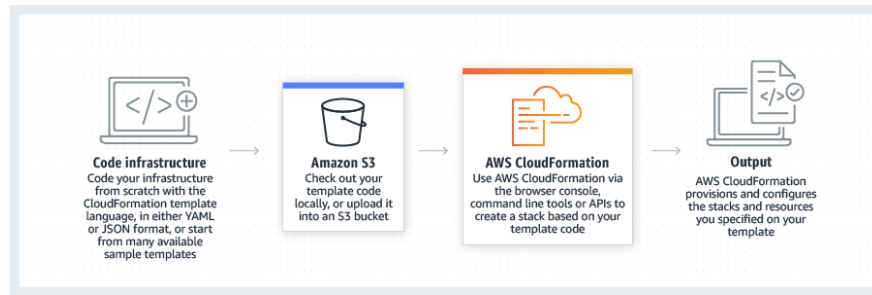
Name	Type	Last modified	Size	Storage class
No objects				

You don't have any objects in this bucket.

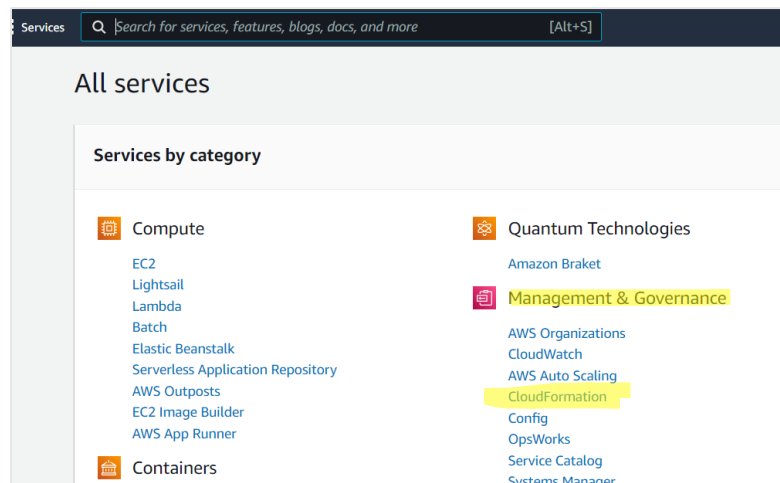
We can enable server access logs for the reference. I have not attached screenshot for the enabling logs.

AWS CloudFormation: Speed up cloud provisioning with infrastructure as code

- Scale your infrastructure worldwide and manage resources across all AWS accounts and regions through a single operation.
- Extend and manage your infrastructure to include cloud resources published in the CloudFormation Registry, the developer community, and your library.
- Automate resource management across your organization with AWS service integrations offering turnkey application distribution and governance controls.



Step1 : We will use cloudFormation service from Management & Governance and create S3 bucket.



We will prepare template to perform S3 creation using cloud formation. This requires us to prepare a template. This template can be prepared using JSON or YAML formats.

Example:

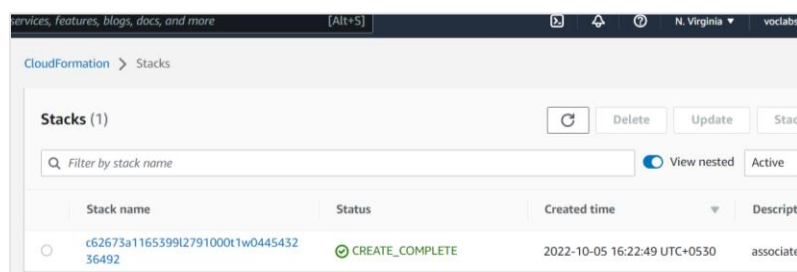
YAML format	JSON format
<pre>AWSTemplateFormatVersion: '2022-10-09' Description: Template to create s3 bucket and policy Parameters: BucketName: Type: String Description: Bucket Name Default: sandeepm-bucket Resources: MyS3Bucket: Type: 'AWS::S3::Bucket' Description: Bucket on which we will attach and test bucket policy Properties: BucketName: !Ref BucketName</pre>	<pre>{ "AWSTemplateFormatVersion": "2010-09-09", "Description": "Template to create s3 bucket and policy", "Parameters": { "BucketName": { "Type": "String", "Description": "Bucket Name", "Default": " sandeepm-bucket" } }, "Resources": { "MyS3Bucket": { "Type": "AWS::S3::Bucket", "Description": "Bucket on which we will attach and test bucket policy", "Properties": { "BucketName": { "Ref": "BucketName"</pre>

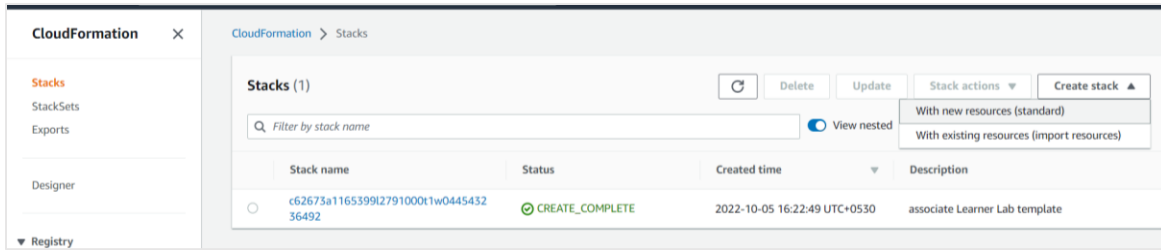


Step : create Stack.

- Click on “Upload a template file”, upload **sandeepm_bucket_CF.yml** and click Next
- Enter the stack name and click on Next.
- In the configuration, keep everything as default and click on Next.
- In the events tab of the stack, you can view the status.
- Once the stack is successfully created, head to your S3 bucket and you will see your bucket.

Below are the screenshots for the steps. Once all the steps complete, we will upload objects to S3 bucket. This bucket can be used to host static web or it can be used as S3 store.





Prerequisite - Prepare template

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.

☒ Template is ready ☐ Use a sample template ☐ Create 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
Choose file
JSON or YAML formatted file

S3 URL: Will be generated when template file is uploaded

Prerequisite - Prepare template

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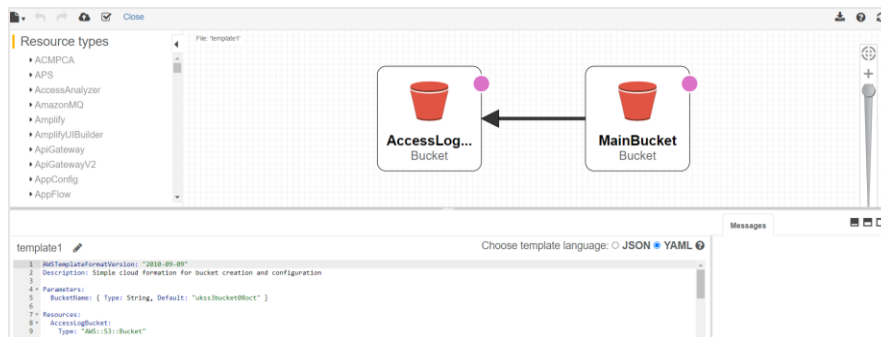
Template source
Selecting a template generates an Amazon S3 URL where it will be stored.

☐ Amazon S3 URL ☒ Upload a template file

Upload a template file
Choose file
JSON or YAML formatted file

S3 URL: https://s3-external-1.amazonaws.com/cf-templates-1v8ve1fm6olxu-us-east-1/2022281rOK-cloudformation_template.yaml

Below is the designer view of the bucket policy created using CF template.



Specify stack details

Stack name

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.

BucketName

Cancel

Previous

Next

Advanced options

You can set additional options for your stack, like notification options and a stack policy. [Learn more](#)

Stack policy

Defines the resources that you want to protect from unintentional updates during a stack update.

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. [Learn more](#)

Notification options

Stack creation options

Cancel

Previous

Next

atures, blogs, docs, and more [Alt+S]

N. Virginia voclabs/user2184411=UMA_DEVI_K_5 @

Monitoring time
-
CloudWatch alarm ARN
-

Notification options

No notification options
There are no notification options defined

Stack creation options

Timeout
-
Termination protection
Disabled

► Quick-create link

Cancel Previous Create change set Create stack

mystack

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

Events (1)

Q Search events

Timestamp	Logical ID	Status	Status reason
2022-10-08 13:53:32 UTC+0530	mystack	CREATE_IN_PROGRESS	User Initiated

mystack

Delete Update Stack actions

Stack info Events Resources Outputs Parameters Template Change sets

Resources (2)

Q Search resources

Logical ID	Physical ID	Type	Status
AccessLogBucket	mystack-accesslogbucket-ivxd5aqalhyh	AWS::S3::Bucket	CREATE_COMPLETE
MainBucket	-	AWS::S3::Bucket	CREATE_IN_PROGRESS

mystack				Delete	Update	Stack action
Stack info	Events	Resources	Outputs	Parameters	Template	Change sets
Resources (2)						
<input type="text" value="Search resources"/>						
Logical ID	Physical ID	Type	Status			
AccessLogBucket	mystack-accesslogbucket-iwxd5aqalhyh ↗	AWS::S3::Bucket	✔ CREATE_COMPLETE			
MainBucket	ukss3bucket08octnew ↗	AWS::S3::Bucket	✔ CREATE_COMPLETE			

mystack				Delete	Update	Stack actions ▼	Create stack ▼
Stack info	Events	Resources	Outputs	Parameters	Template	Change sets	
Outputs (2)							
<input type="text" value="Search outputs"/>							
Key	Value	Description	Export name				
LogBucketName	mystack-accesslogbucket-iwxd5aqalhyh	Name of the access log bucket	-				
MainBucketName	ukss3bucket08octnew	Name of the main bucket	-				

We can see the logs for the complete steps performed during CF execution.