

## Lesson 09 Demo 03

# **Creating an S3 Bucket Using CloudFormation**

**Objective:** To create an S3 Bucket stack using CloudFormation for efficient infrastructure

management and deployment

Tools required: AWS Management Console

Prerequisites: None

Steps to be followed:

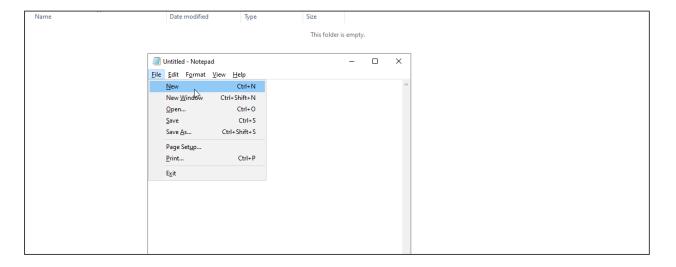
1. Create a template

2. Create an IAM role for the S3 bucket stack

3. Create an S3 Bucket stack

#### **Step 1: Create a template**

1.1 Open a new file in Notepad





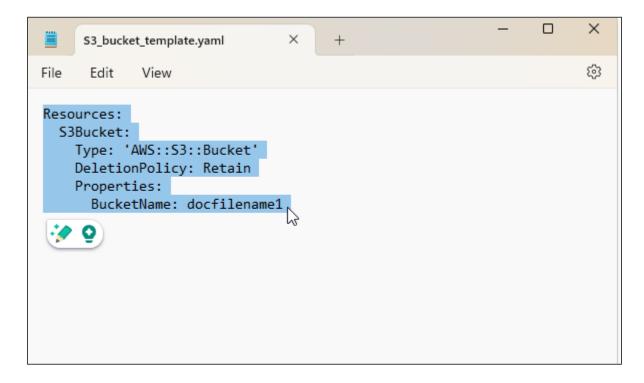
1.2 Write the following code in Notepad to create an S3 bucket template:

Resources: S3Bucket:

Type: 'AWS::S3::Bucket' DeletionPolicy: Retain

**Properties:** 

BucketName: docfilename1

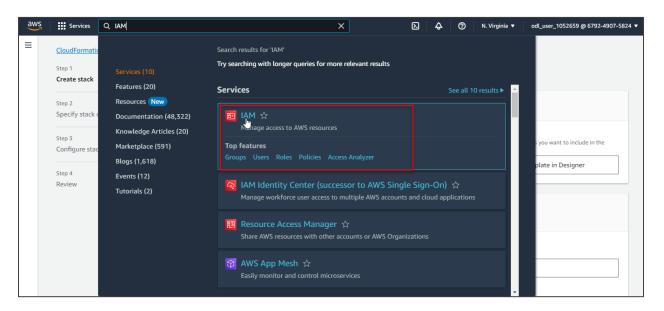


You must save the file with a .yaml extension on your local system.

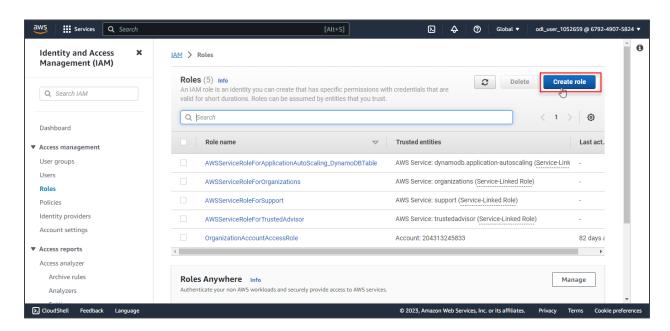


## Step 2: Create an IAM role for the S3 bucket stack

2.1 Open the IAM service

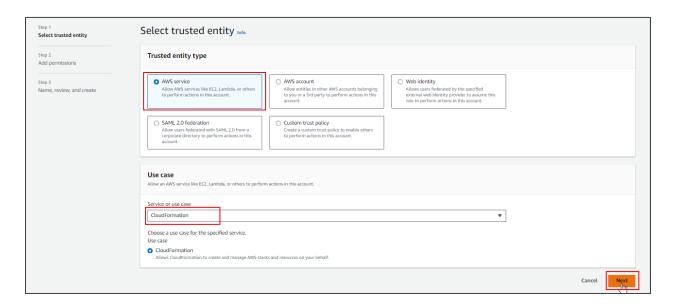


2.2 Select Roles and click on the Create role button

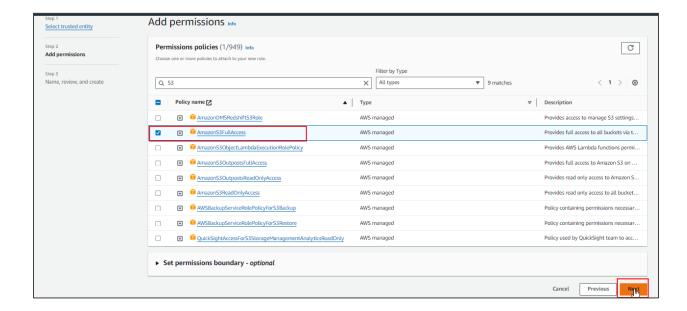




2.3 In the Select trusted entity section, specify the trusted entity type as **AWS service** and use case as **CloudFormation**, and click **Next** 



2.4 In the Permissions policies, select the AmazonS3FullAccess policy and click Next

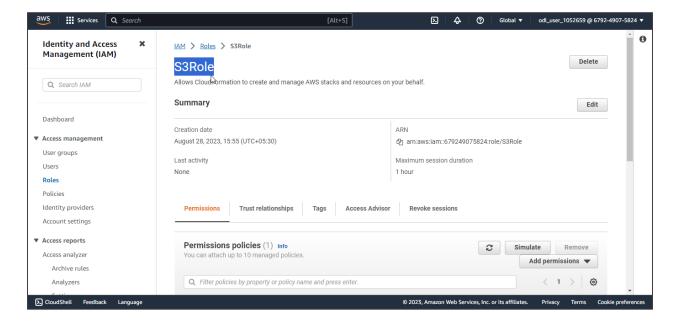




#### 2.5 Enter the role name and click on the Create role button





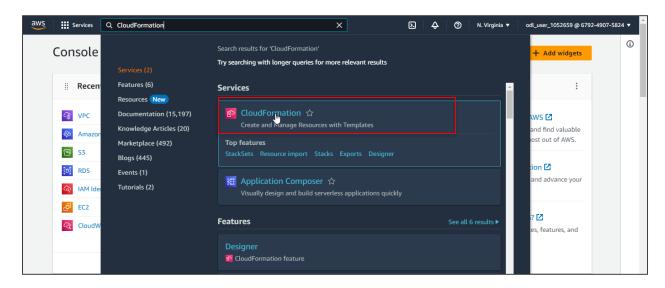


The IAM role is created successfully.

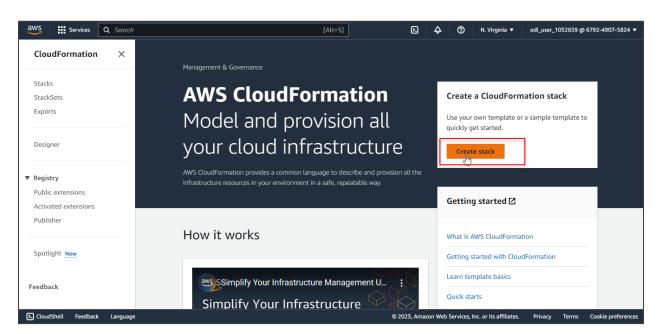


#### Step 3: Create an S3 Bucket stack

3.1 Go to the AWS Management Console and search for CloudFormation

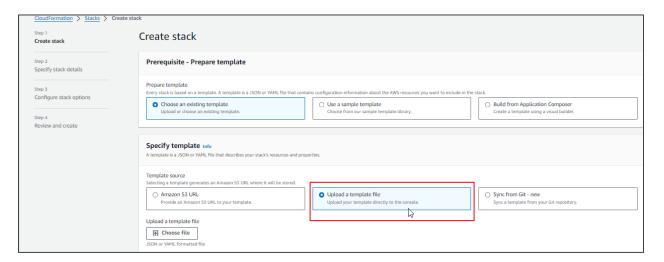


3.2 In the CloudFormation Management Console, click on Create stack

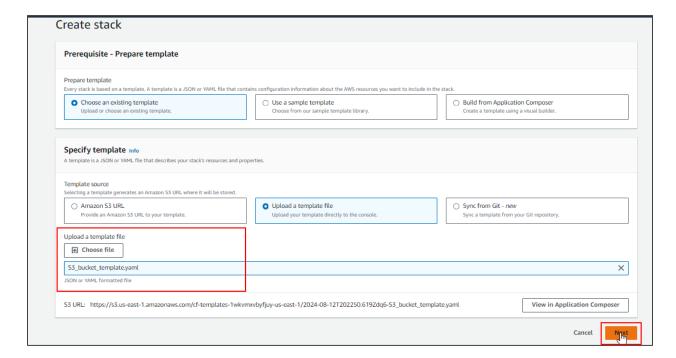




3.3 In the Create stack console, choose **Upload a template** file in the **Specify template** section

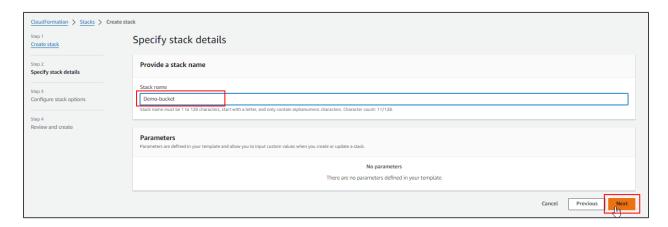


3.4 Click on Choose file, upload the template created in Step 1, and click Next

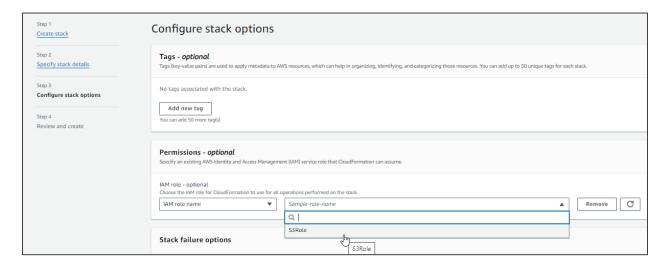




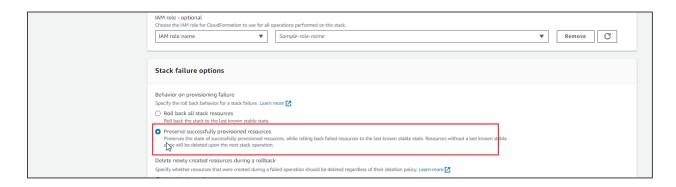
3.5 Enter a name for the stack and click Next



3.6 In the Configure stack options page, select the created IAM role



3.7 In Stack failure options, select the **Preserve successfully provisioned resources** option and click **Next** 

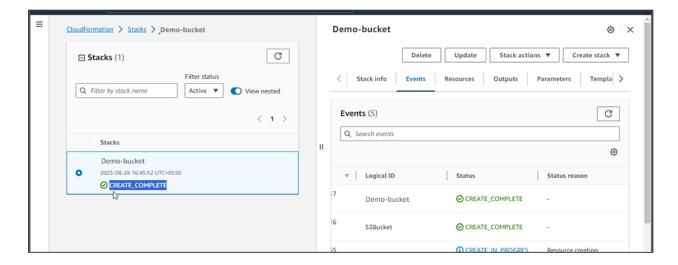




specify section of section is interested interested in the special great special installation of the section of
► Notification options - optional  Specify a new or existing Amazon Simple Notification Service topic where notifications about stack events are sent.
➤ Stack creation options - optional  Specify the timeout and termination protection options for stack creation.
Cancel Previous Next of m

3.8 Review all the stack configuration details and click Submit

Notification options
SNS topic ARN
No notification options  There are no notification options defined
Stack creation options
Timeout -
Termination protection Deactivated
Quick-create link
Use quick-create links to get stacks up and running quickly from the AWS CloudFormation console with the same basic configuration as this stack. Copy the URL on the link to share. Learn more  Open quick-create link
Create change set Cancel Previous Submit



The newly created S3 bucket will be displayed in the list.

By following these steps, you have successfully created an S3 Bucket stack using CloudFormation for efficient infrastructure management and deployment.

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