**Lab: Deploy an S3 Bucket with Lifecycle Rules Using AWS CloudFormation (AWS Management Console Only)**

You will use the **AWS Management Console** to deploy your CloudFormation (CFT-LC.yaml) template to create an S3 bucket with lifecycle rules.

**Step 1: Log in to AWS and Navigate to CloudFormation**

1. Sign in to the **AWS Management Console**.
2. Navigate to **AWS CloudFormation**:
   * Click **Services** → Search for **CloudFormation** and select it.
3. Click **Create stack** → **With new resources (standard)**.

**Step 2: Upload CloudFormation Template**

1. Under **Specify template**, choose **Upload a template file**.
2. Click **Choose file** and select your CFT-LC.yaml file from your local machine.

Resources:

MyS3Bucket:

Type: AWS::S3::Bucket

Properties:

BucketName: my-s3-bucket-amit

VersioningConfiguration:

Status: Enabled

LifecycleConfiguration:

Rules:

- Id: DeleteOldVersions

Status: Enabled

NoncurrentVersionExpiration:

NoncurrentDays: 30 # Deletes non-current object versions after 30 days

- Id: DeleteIncompleteMultipartUploads

Status: Enabled

AbortIncompleteMultipartUpload:

DaysAfterInitiation: 7 # Deletes incomplete multipart uploads after 7 days

1. Click **Next**.

**Step 3: Configure Stack Details**

1. **Stack name**: Enter S3-Lifecycle-Stack.
2. **Parameters**: (if applicable, based on template requirements).
3. Click **Next**.

**Step 4: Configure Stack Options (Optional)**

1. Leave default settings unless you want to add tags, permissions, or stack policies.
2. Click **Next**.

**Step 5: Review and Deploy**

1. **Review the stack details** to ensure everything is correct.
2. Scroll down and check **I acknowledge that AWS CloudFormation might create IAM resources** (if required).
3. Click **Create stack**.

**Step 6: Monitor Stack Creation**

1. You will be redirected to the **Stack Details** page.
2. Click the **Events** tab to track progress.
3. Wait for the stack status to change to **CREATE\_COMPLETE**.

**Step 7: Verify S3 Bucket and Lifecycle Rules**

1. Navigate to **S3** from the AWS console.
2. Locate and click on your bucket (my-s3-bucket-amit).
3. Go to the **Properties** tab → Verify **Versioning is enabled**.
4. Go to the **Management** tab → Verify **Lifecycle rules** exist:
   * DeleteOldVersions: Deletes non-current versions after **30 days**.
   * DeleteIncompleteMultipartUploads: Deletes incomplete uploads after **7 days**.

**Step 8: Cleanup (If Needed)**

To delete the resources:

1. Go to **AWS CloudFormation**.
2. Select S3-Lifecycle-Stack.
3. Click **Delete** → Confirm deletion.