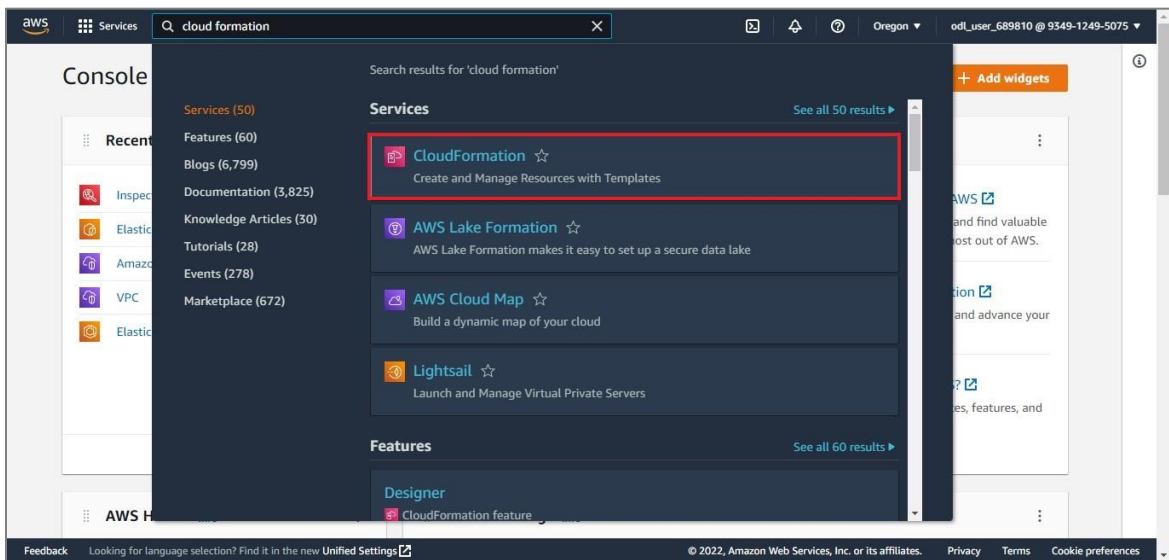


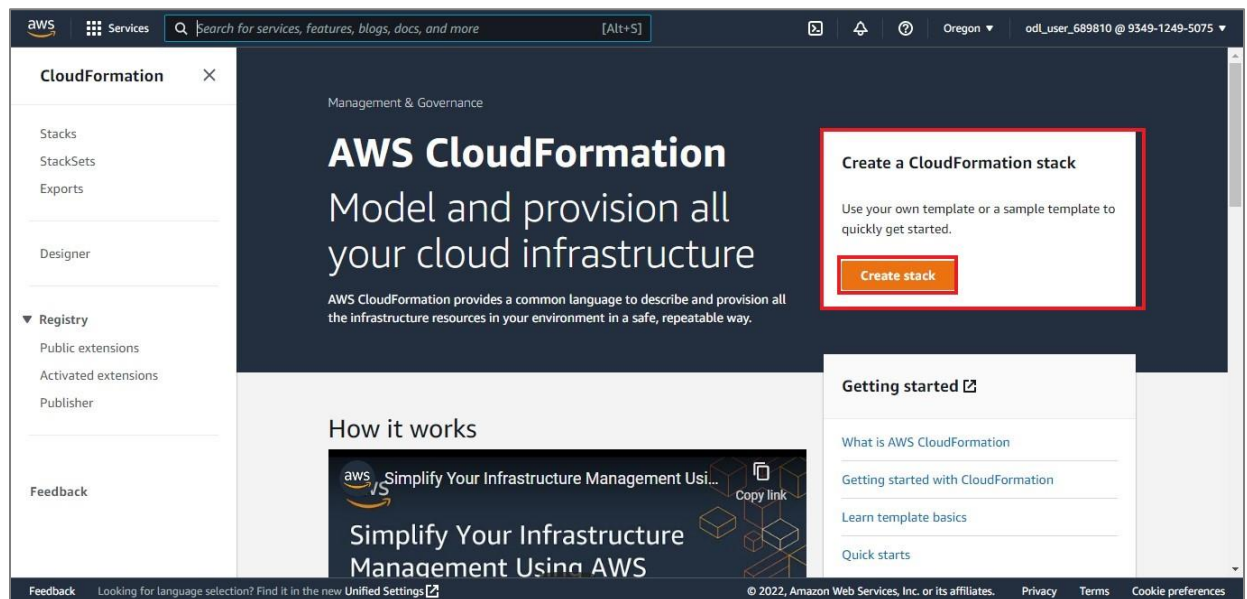
Updating an Existing Stack

Step 1: Creating an S3 bucket stack using CloudFormation

1.1 Go to the AWS Management Console and search for **CloudFormation**



1.2 In the Cloud Formation Management Console, click on the **Create stack**.



1.3 In **Create stack** console, do the following:

- Choose to **Create template in Designer** in **Specify template** section

- Click on **Create template in Designer**

The screenshot shows the 'Create stack' wizard in the AWS Management Console. On the left, a sidebar lists four steps: Step 1 (Specify template), Step 2 (Specify stack details), Step 3 (Configure stack options), and Step 4 (Review). The main area is titled 'Create stack'. Under the heading 'Prerequisite - Prepare template', there is a sub-section 'Prepare template' with the text: '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.' Below this text are three radio buttons: 'Template is ready', 'Use a sample template', and 'Create template in Designer'. The 'Create template in Designer' button is selected and highlighted with a red box. Below this section, there is another section titled 'Create template in Designer' with the text: 'Use the AWS CloudFormation Designer to graphically design your stack on a simple, drag-and-drop interface. The Designer automatically updates and validates the template JSON or YAML.' At the bottom of this section, there is a button labeled 'Create template in designer', which is also highlighted with a red box.

1.4 In the **Template designer** do the following:

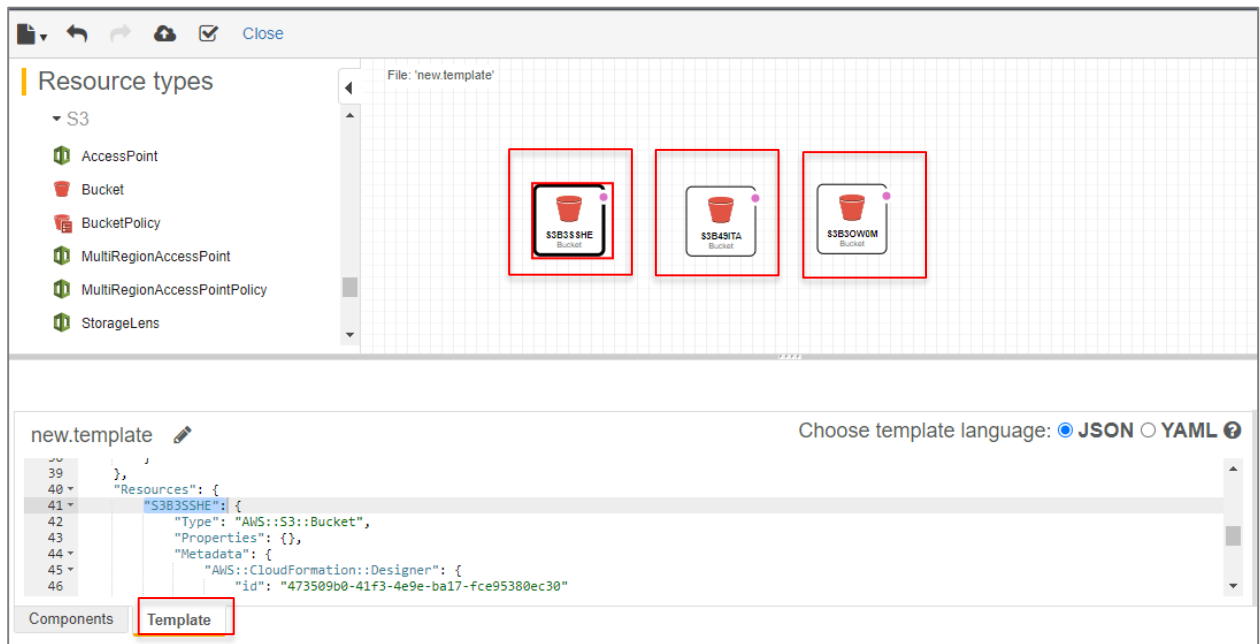
- In the **Resource types**, select **S3** then click on **Bucket**.

The screenshot shows the AWS CloudFormation Designer interface. At the top, there is a navigation bar with the AWS logo, 'Services', a search bar, and other utility icons. Below the navigation bar, there is a toolbar with icons for file operations and a 'Close' button. The main interface is divided into three panes. The left pane is titled 'Resource types' and shows a list of resource types under the 'S3' category: 'AccessPoint', 'Bucket', 'BucketPolicy', 'MultiRegionAccessPoint', 'MultiRegionAccessPointPolicy', and 'StorageLens'. The 'Bucket' resource type is highlighted. The middle pane is a large grid area for designing the template. It contains a dashed blue box with the text: 'To start building your template, drag resources from the Resources pane.' The right pane is a tabbed interface with tabs for 'Parameters', 'Mappings', 'Conditions', 'Metadata', and 'Outputs'. The 'Parameters' tab is active, showing a JSON snippet for a parameter named 'new.template'. The snippet is:

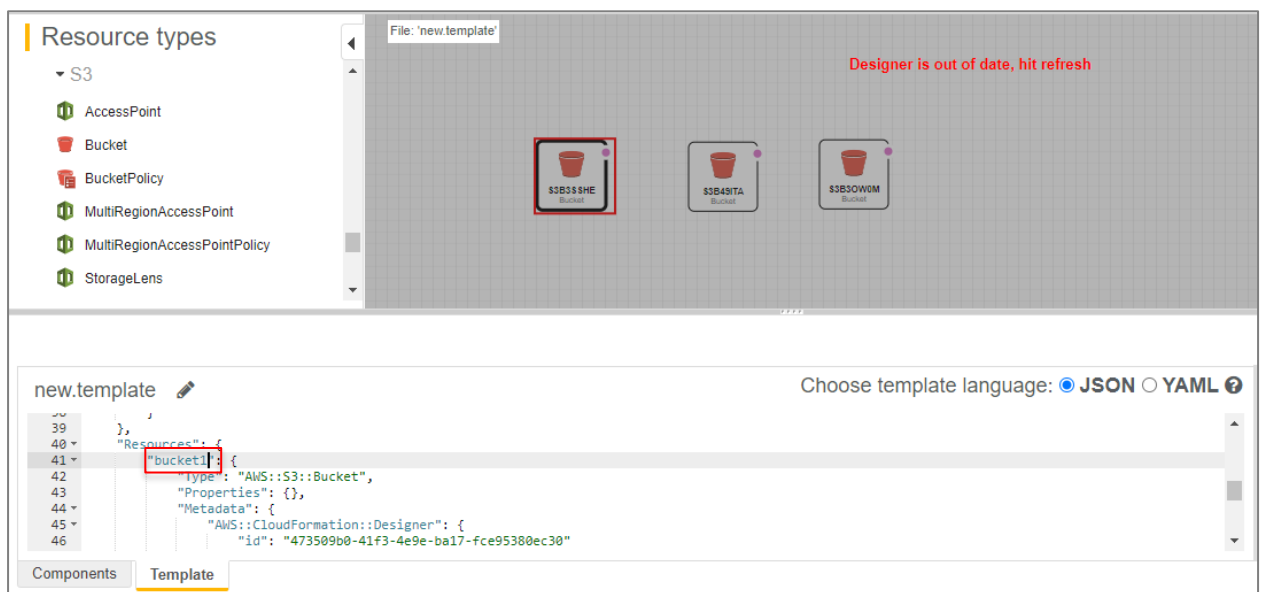
```
1 {  
2   "Parameters": {  
3 }  
}
```

 At the bottom of the right pane, there is a section for 'Choose template language:' with radio buttons for 'JSON' (selected) and 'YAML'. Below this, there is a 'Components' tab and a 'Template' tab.

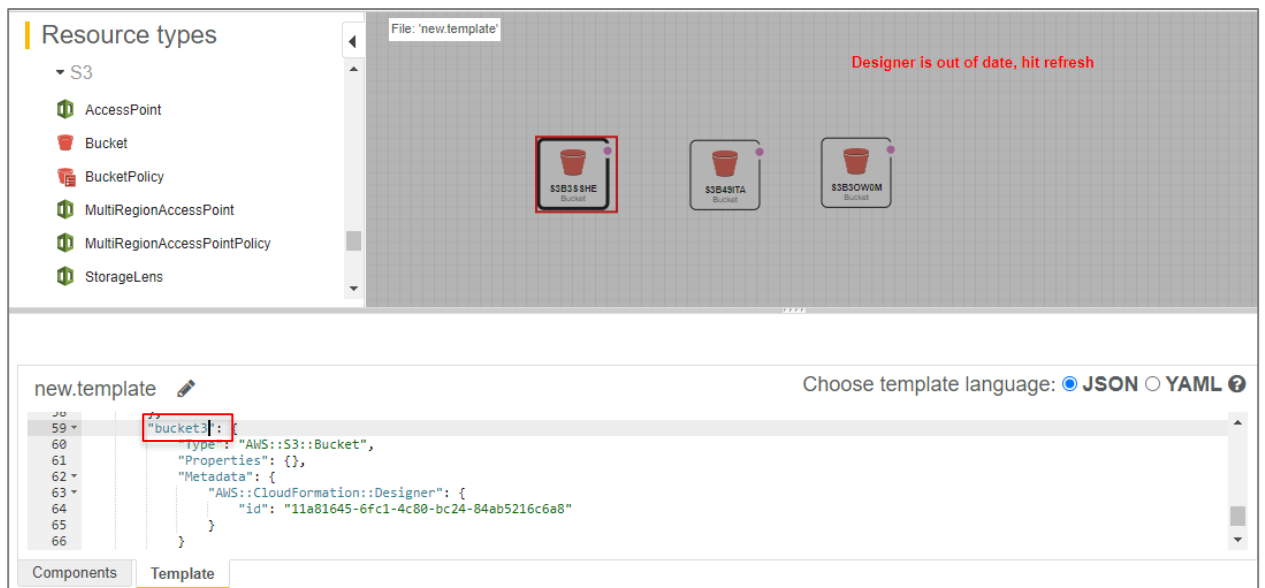
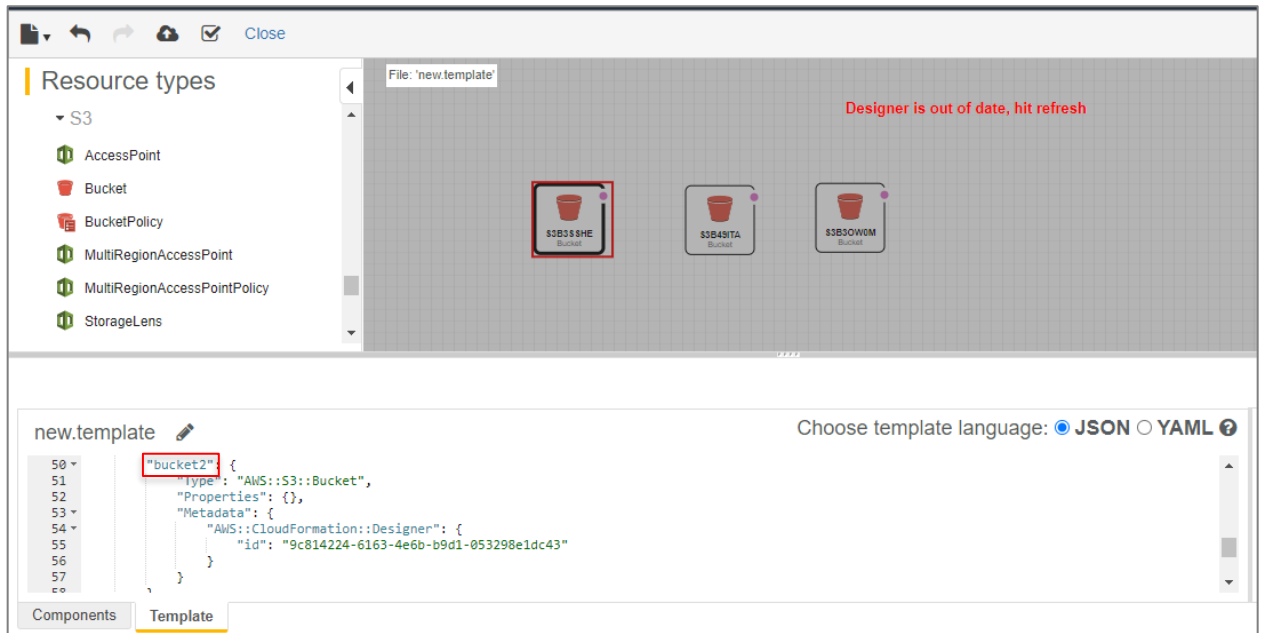
- Drag 3 **Buckets** from the **Resource** pane to the **right pane**
- Go to the **Template** tab on the lower pane of the **Template designer**



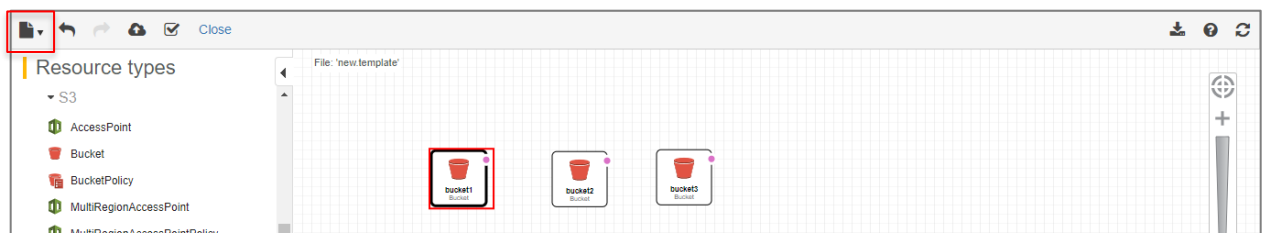
- Now, edit the names of all three buckets by going into the Resources section of the **Template** and enter an arbitrary name for the first bucket:



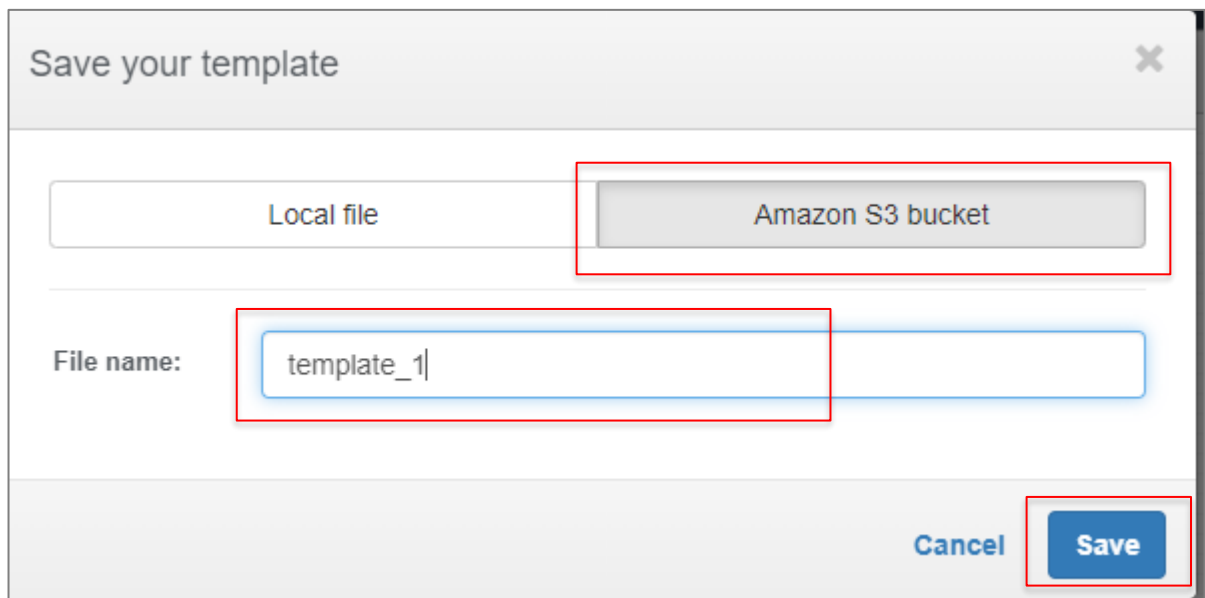
- Similarly, enter an arbitrary name for the second and third bucket:



- Click on the **Save** icon and save the template

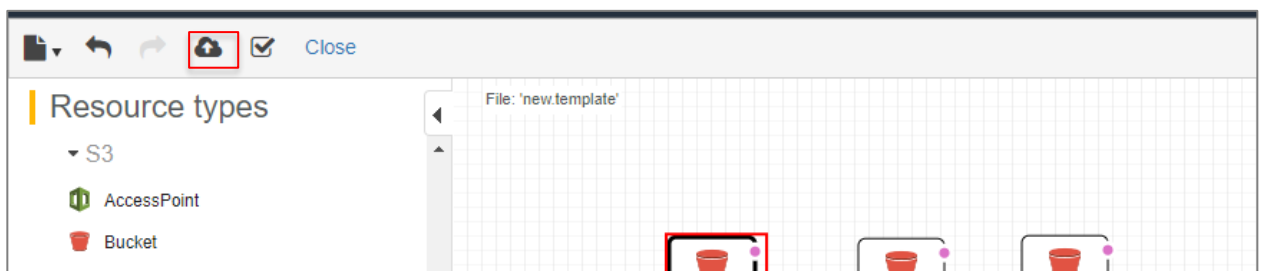


- Save the template as **Amazon S3 bucket** and enter an arbitrary name for the template



The screenshot shows a dialog box titled "Save your template" with a close button (X) in the top right corner. Inside the dialog, there are two radio buttons: "Local file" and "Amazon S3 bucket". The "Amazon S3 bucket" option is selected and highlighted with a red rectangle. Below the radio buttons, there is a text input field labeled "File name:" containing the text "template_1". This input field is also highlighted with a red rectangle. At the bottom right of the dialog, there are two buttons: "Cancel" and "Save". The "Save" button is highlighted with a red rectangle.

- Now click on the **Upload** icon and upload the template



- Now you will be redirected to the **Create stack** window. Then click on the **Next** step.

Step 1
Specify template

Step 2
Specify stack details

Step 3
Configure stack options

Step 4
Review

Create stack

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

Amazon S3 URL

1.5 In **Specify stack details**, enter an arbitrary name for the stack. Then click on **Next**.

The screenshot shows the 'Specify stack details' step in the AWS CloudFormation console. On the left, a sidebar lists four steps: Step 1 'Specify template', Step 2 'Specify stack details' (which is the current step), Step 3 'Configure stack options', and Step 4 'Review'. The main content area is titled 'Specify stack details'. It contains a 'Stack name' section with a text input field containing 'Stack1'. A red box highlights the input field and the text below it: 'Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-)'. Below this is a 'Parameters' section with the text 'Parameters are defined in your template and allow you to input custom values when you create or update a stack.' and 'No parameters' with 'There are no parameters defined in your template'. At the bottom right, there are three buttons: 'Cancel', 'Previous', and 'Next'. The 'Next' button is highlighted with a red box.

- Similarly, in **Configure Stack options**, click on **Next**

1.6 In the **Review** section, click on **Create stack**

The screenshot shows the 'Review' step in the AWS CloudFormation console. The top navigation bar includes the AWS logo, 'Services', a search bar, and user information. The main content area is titled 'Review'. It contains two sections: 'Notification options' with the text 'No notification options' and 'There are no notification options defined', and 'Stack creation options' with 'Timeout' set to '-' and 'Termination protection' set to 'Disabled'. At the bottom, there is a 'Quick-create link' and four buttons: 'Cancel', 'Previous', 'Create change set', and 'Create stack'. The 'Create stack' button is highlighted with a red box.

CloudFormation > Stacks > Stack1

Stacks (1)

Filter by stack name

Active View nested < 1 >

Stack1
2022-08-04 03:57:59 UTC+0530
CREATE_COMPLETE

Stack1

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

Events (11)

Search events

Timestamp	Logical ID	Status	Status reason
2022-08-04 03:58:27 UTC+0530	Stack1	CREATE_COMPLETE	-
2022-08-04 03:58:26 UTC+0530	bucket1	CREATE_COMPLETE	-
2022-08-04 03:58:26 UTC+0530	bucket3	CREATE_COMPLETE	-
2022-08-04 03:58:25 UTC+0530	bucket2	CREATE_COMPLETE	-

1.7 Now go to the S3 bucket dashboard. There you will find all the three buckets created.

Note: Open a duplicate tab and perform the above step and keep this tab open till the end of this demo.

aws Services Search for services, features, blogs, docs, and more [Alt+S] Global Corestack_Role/prakhar.gupta_simplilearn @ 1327-2051-5193

Amazon S3

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight 3

Are you missing easy ways to reduce storage costs and enhance data protection? Find out with S3 Storage Lens

Total storage 834.0 B Object count 1 Avg. object size 834.0 B

You can enable advanced metrics in the "default-account-dashboard" configuration.

Buckets (4) Info

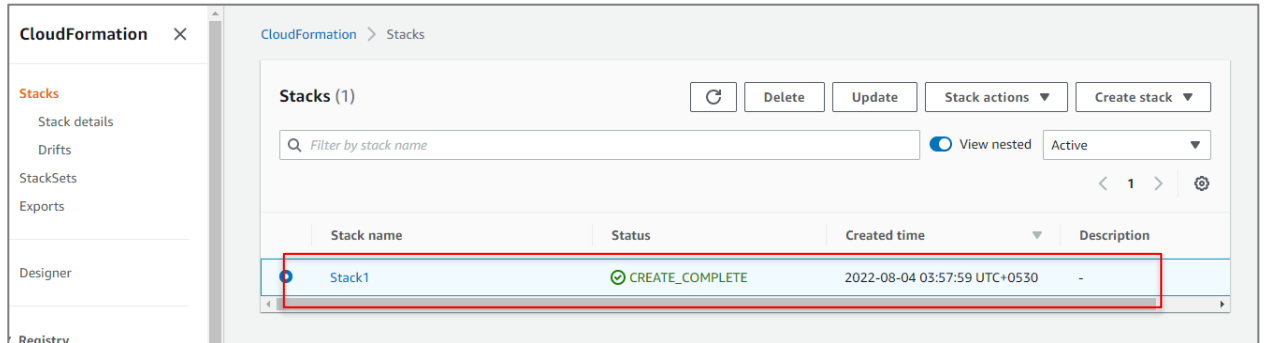
Buckets are containers for data stored in S3. Learn more

Find buckets by name

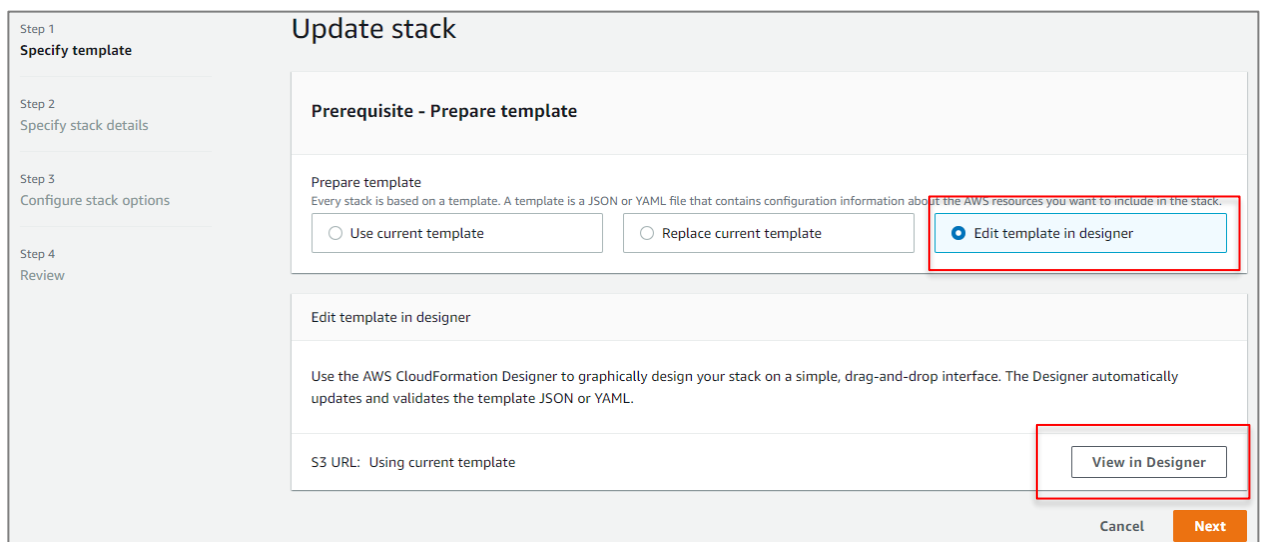
Name	AWS Region	Access	Creation date
cf-templates-12l6g1bh7m3ol-us-east-1	US East (N. Virginia) us-east-1	Bucket and objects not public	August 4, 2022, 03:54:14 (UTC+05:30)
stack1-bucket1-1idbr627f2avt	US East (N. Virginia) us-east-1	Objects can be public	August 4, 2022, 03:58:06 (UTC+05:30)
stack1-bucket2-cpehkm7ln1cl	US East (N. Virginia) us-east-1	Objects can be public	August 4, 2022, 03:58:05 (UTC+05:30)
stack1-bucket3-o6ar41gwpnxc	US East (N. Virginia) us-east-1	Objects can be public	August 4, 2022, 03:58:06 (UTC+05:30)

Step 2: Delete an S3 bucket from the stack

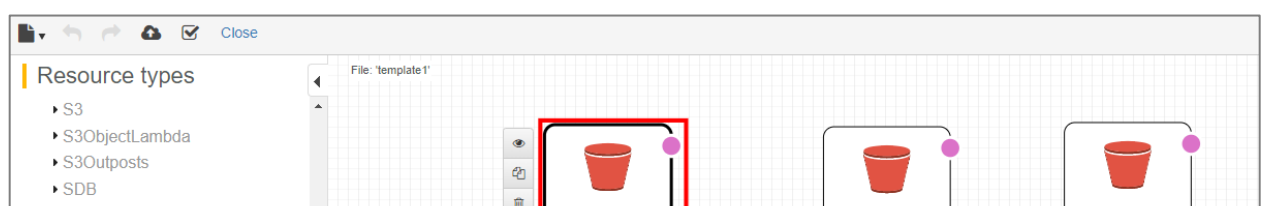
2.1 Now go to the CloudFormation dashboard, then select the stack you just created and click on **Update**



2.2 Select **Edit template in designer** then, click on **View in Designer**

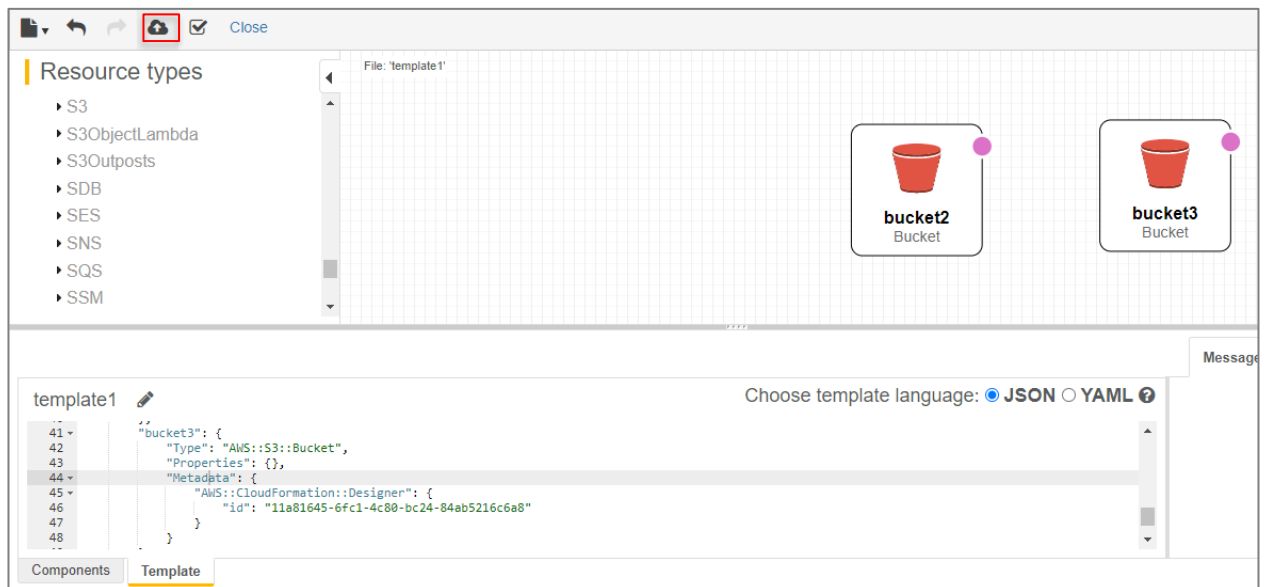


2.3 Select the first bucket and click on the delete icon to delete the bucket from the stack





- After deleting the bucket, click on the upload icon to upload the template.



2.4 In the **Update stack** section, click on **Next**.

The screenshot shows the 'Update stack' wizard in the AWS Management Console. The left sidebar indicates the current step is 'Step 1: Specify template'. The main content area is titled 'Update stack' and contains two sections. The first section, 'Prerequisite - Prepare template', explains that every stack is based on a template and provides three options: 'Use current template', 'Replace current template' (which is selected), and 'Edit template in designer'. The second section, 'Specify template', explains that a template is a JSON or YAML file and provides two options for the 'Template source': 'Amazon S3 URL' (selected) and 'Upload a template file'. Below this, an 'Amazon S3 URL' field contains the text: 'https://s3-external-1.amazonaws.com/cf-templates-12l6g1bh7m3ol-us-east-1/20222153r1-template1j4ya67rmc'.

- Similarly, click on **Next** for **Specify stack details** and **Configure stack options**
- Then click on **Create stack** in **Review** section

The screenshot shows the 'Review' section of the AWS CloudFormation console. The top navigation bar includes the AWS logo, 'Services', a search bar, and user information. The main content area is divided into two sections. The first section, 'Notification options', states 'No notification options' and 'There are no notification options defined'. The second section, 'Stack creation options', shows 'Timeout' as '-' and 'Termination protection' as 'Disabled'. At the bottom, there is a 'Quick-create link' and four buttons: 'Cancel', 'Previous', 'Create change set', and 'Create stack' (which is highlighted with a red border).

- After two minutes, the status changes to **UPDATE_COMPLETE**.

CloudFormation > Stacks > Stack1

Stack1

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

Events (16)

Timestamp	Logical ID	Status	Status reason
2022-08-04 04:06:59 UTC+0530	Stack1	UPDATE_COMPLETE	-
2022-08-04 04:06:59 UTC+0530	bucket1	DELETE_COMPLETE	-
2022-08-04 04:06:58	bucket1	DELETE_IN_PROGRESS	-

- Now go to the tab which you opened in step 1.7, then refresh the dashboard. There you will find that only the second and third buckets are present, which means that the first bucket is deleted.

Amazon S3

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight 3

Learn how to build multi-region apps with the same architecture used in a single region. Get started

Total storage: 834.0 B | Object count: 1 | Avg. object size: 834.0 B

You can enable advanced metrics in the "default-account-dashboard" configuration.

Buckets (3) Info

Buckets are containers for data stored in S3. Learn more

Find buckets by name

Name	AWS Region	Access	Creation date
cf-templates-12l6g1bh7m3ol-us-east-1	US East (N. Virginia) us-east-1	Bucket and objects not public	August 4, 2022, 03:54:14 (UTC+05:30)
stack1-bucket2-cpehkm7ln1cl	US East (N. Virginia) us-east-1	Objects can be public	August 4, 2022, 03:58:05 (UTC+05:30)
stack1-bucket3-o6ar41gwpnxc	US East (N. Virginia) us-east-1	Objects can be public	August 4, 2022, 03:58:06 (UTC+05:30)

Hence, you have successfully updated the stack by deleting one S3 bucket from it.