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## CloudFormation Template Update

### Problem Statement:

You work for TechArkit 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. Use the template from CloudFormation task 1.
2. Add Notification to the CloudFormation stack using SNS so that you get a notification via mail for every step of the stack creation process

### Answer:

#### Create Stack

**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

Upload a template file

SNSTopic.yaml  
JSON or YAML formatted file

S3 URL: <https://s3.us-east-1.amazonaws.com/cf-templates-gpx1g187pf2-us-east-1/2023-11-04T105347.755Zykt-SNSTopic.yaml>

Select Template is ready.

Upload a template file.

Choose file.

Click Next

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## Specify stack details

### Stack name

Stack name

SNS\_Topic

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.

No parameters

There are no parameters defined in your template

Cancel

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## Stack failure options

### Behavior on provisioning failure

Specify the roll back behavior for a stack failure. [Learn more](#)

#### ☒ Roll back all stack resources

Roll back the stack to the last known stable state.

#### ☐ Preserve successfully provisioned resources

Preserves the state of successfully provisioned resources, while rolling back failed resources to the last known stable state. Resources without a last known stable state will be deleted upon the next stack operation.

### Delete newly created resources during a rollback

Specify whether resources that were created during a failed operation should be deleted regardless of their deletion policy. [Learn more](#)

#### ☒ Use deletion policy

Retains or deletes created resources according to their attached deletion policy.

#### ☐ Delete all newly created resources

Deletes created resources during a rollback regardless of their attached deletion policy.

## 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.

### Notification options

### Stack creation options

Cancel

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Click **Next**

Cancel Previous Submit

Click **Submit**

Stack info	Events	Resources	Outputs	Parameters	Template	Change sets
Events (5)						
Search events						
Detect root cause - beta						
Timestamp	Logical ID	Status	Status reason			
2023-11-04 16:33:39 UTC+0530	SNSTopic	CREATE_COMPLETE	-			
2023-11-04 16:33:38 UTC+0530	SNSTopic	CREATE_COMPLETE	-			

CloudFormation → Stacks → Select the Stack → Update.

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CloudFormation > Stacks

Stacks (2)

Filter by stack name

Filter status: Active View nested

Stack name	Status	Created time	Description
<a href="#">SNSTopic</a>	CREATE_COMPLETE	2023-11-04 16:33:27 UTC+0530	-
<a href="#">three-tier-deployment</a>	CREATE_COMPLETE	2023-11-04 15:14:26 UTC+0530	-

### Update 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.

☒ Use current template

☐ Replace current template

☐ Edit template in designer

Cancel

Next

Click **Next**

Cancel Previous Next

Click **Next**

#### Advanced options

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

##### Stack policy during update

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.

##### Notification options

SNS topic ARN - optional

[arn:aws:sns:us-east-1:208253838762:Ravi-SNS-Topic](#)

Add SNS topic

Create new SNS topic

Cancel

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Next

In the stack update, select Notification options → Select SNSTopic → Click **Next**

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### Notification options

#### SNS topic ARN

[arn:aws:sns:us-east-1:208253838762:Ravi-SNS-Topic](#)

### Change set preview

#### Changes (0)

Search changes



< 1 >

Action	Logical ID	Physical ID	Resource type	Replacement	Module	Hook invocations
--------	------------	-------------	---------------	-------------	--------	------------------

No changes

There are no resources to be changed

View change set

Cancel

Previous

Submit

Click **Submit**

Stack info	Events	Resources	Outputs	Parameters	Template	Change sets
Events (71)						
Search events						
Detect root cause - beta						
Timestamp	Logical ID	Status	Status reason			
2023-11-04 16:42:44 UTC+0530	three-tier-deployment	UPDATE_COMPLETE	-			
2023-11-04 16:42:43 UTC+0530	three-tier-deployment	UPDATE_COMPLETE_CLEANUP_IN_PROGRESS	-			
2023-11-04 16:42:38 UTC+0530	three-tier-deployment	UPDATE_IN_PROGRESS	User Initiated			

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