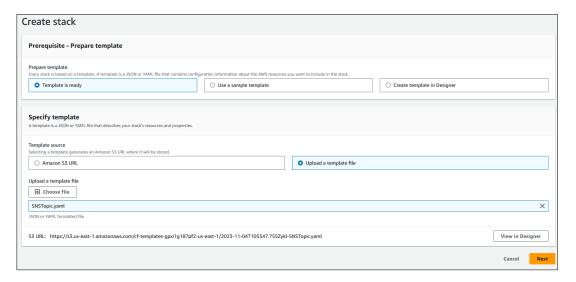# CloudFormation Template Update

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
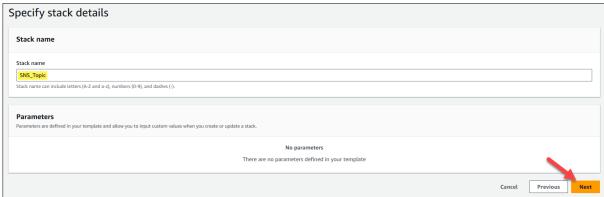
Answer:

Create Stack

Select **Template is ready.**

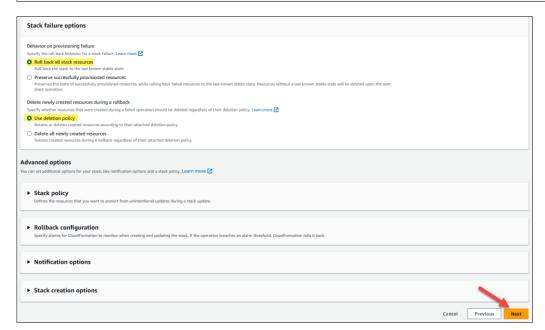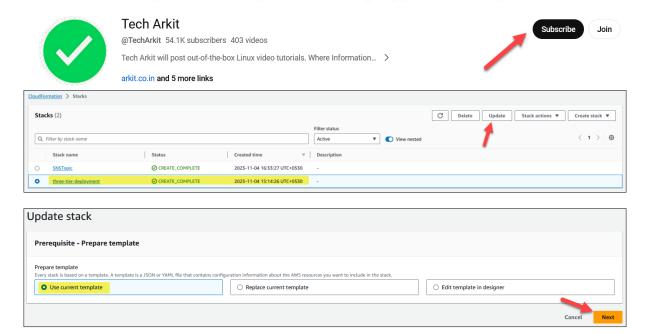**Upload a template file.**

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   Previous   Next

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   Previous   Next

Click **Next**

Cancel   Previous   **Submit**

Click **Submit**

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

Events (5)

Detect root cause - beta   ↻

Q Search events

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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arkit.co.in **and 5 more links**

Click **Next**

Click **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)

Detect root cause - *beta*   ⟳

🔍 Search events

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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