

ASSIGNMENT 3 : CLOUD FORMATION SNS

CloudFormation X

Stacks

StackSets

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Management & Governance

AWS CloudFormation

Model and provision all your cloud infrastructure

AWS CloudFormation provides a common language to describe and provision all the infrastructure resources in your environment in a safe, repeatable way.

Create a CloudFormation stack

Use your own template or a sample template to quickly get started.

Create stack

Getting started

[What is AWS CloudFormation](#)

[Getting started with CloudFormation](#)

[Learn template basics](#)

[Quick starts](#)


More resources

[Documentation](#)


[API reference](#)


[FAQs](#)

How it works

 Simplify Your Infrastructure Management Using AWS Cl...
[Copy link](#)

Simplify Your Infrastructure Management Using AWS CloudFormation

Watch on  YouTube

 CloudShell [Feedback](#)

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[CloudFormation](#) > **Stacks**

Stacks (0)

Delete

Update

Stack actions ▼

Create stack ▼

Filter status

☒ View nested

< 1 > ⚙

Status

Created time

Description

No stacks to display

[View getting started guide](#)

CloudFormation > Stacks > Create stack

Step 1
Create stack

Step 2
Specify stack details

Step 3
Configure stack options

Step 4
Review and create

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.

☒ Choose an existing template

Upload or choose an existing template.

☐ Use a sample template

Choose from our sample template library.

☐ Build from Application Composer

Create a template using a visual builder.

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

Provide an Amazon S3 URL to your template.

☒ Upload a template file

Upload your template directly to the console.

☐ Sync from Git - new

Sync a template from your Git repository.

Upload a template file

Choose file

JSON or YAML formatted file

S3 URL: Will be generated when template file is uploaded

View in Application Composer

Cancel

Next

CloudShellFeedback

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CloudFormation > Stacks > Create stack

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S3 URL: Will be generated when tem

View in Application Composer

Cancel Next

Open

Assignment > 09. Cloud Formation > New folder

Organize New folder

Name	Date modified	Type	Size
CloudformationSNS.yml	20-05-2024 09:46 PM	Text Document	
S3Bucketcf.yml	19-05-2024 11:57 AM	Text Document	
VPCANDSUBNETCFN.YML	20-05-2024 08:28 PM	Text Document	

CloudFormation > Stacks > Create stack

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Upload a template file

Choose file

CloudformationSNS.yml.txt

JSON or YAML formatted file

S3 URL: https://s3.us-east-1.amazonaws.com/cf-templates-1t54q2k6ujegq-us-east-1/2024-05-20T161741.849Z7uu-CloudformationSNS.yml.txt

View in Application Composer

Cancel

Next

CloudShell Feedback

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File Edit View

AWSTemplateFormatVersion: '2010-09-09'

Description: CloudFormation template with SNS notifications

Resources:

Define an SNS topic

SNSTopic:

Type: AWS::SNS::Topic

Properties:

DisplayName: "CloudFormation Notifications"

TopicName: "cloudformation-notifications"

Define an SNS subscription to an email address

SNSSubscription:

Type: AWS::SNS::Subscription

Properties:

TopicArn: !Ref SNSTopic

Protocol: email

Endpoint: "premswapnil.hedau@gmail.com"

Optional: Example of other resources in the stack (e.g., S3 bucket)

S3Bucket:

Type: AWS::S3::Bucket

Properties:

BucketName: "Intellipaat-Swapnil"# Add the NotificationARNs property to the stack

Outputs:

NotificationARN:

Description: "SNS Topic ARN for CloudFormation notifications"

Value: !Ref SNSTopic



CloudFormation > Stacks > Create stack

- Step 1
- Create stack
- Step 2
- Specify stack details
- Step 3
- Configure stack options
- Step 4
- Review and create

Specify stack details

Provide a stack name

Stack name

CLOUDFORMATIONASSIGNMENT3SNS

Stack name must be 1 to 128 characters, start with a letter, and only contain alphanumeric characters. Character count: 28/128.

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

Configure stack options

Tags - optional

Tags (key-value pairs) are used to apply metadata to AWS resources, which can help in organizing, identifying, and categorizing those resources. You can add up to 50 unique tags for each stack.

No tags associated with the stack.

[Add new tag](#)

You can add 50 more tag(s)

Permissions - optional

Specify an existing AWS Identity and Access Management (IAM) service role that CloudFormation can assume.

IAM role - optional

Choose the IAM role for CloudFormation to use for all operations performed on the stack.

IAM role name

Sample-role-name

Remove



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.

- ### Advanced options

- **Stack policy** - optional

- Rollback configuration - optional

- Notification options - optional

- Stack creation options - optional

Cancel

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Next

CloudFormation > Stacks > Create stack

Step 1

Create stack

Step 2

Specify stack details

Step 3

Configure stack options

Step 4

Review and create

Review and create

Step 1: Specify template

Edit

Prerequisite - Prepare template

Template

Template is ready

Template

Template URL

https://s3.us-east-1.amazonaws.com/cf-templates-1t54q2k6ujegq-us-east-1/2024-05-20T161741.849Z7uu-CloudformationSNS.yml.txt

Stack description

CloudFormation template with SNS notifications

Step 2: Specify stack details

Edit

Provide a stack name

Stack name

CLOUDFORMATIONASSIGNMENT3SNS

Parameters

Parameters

Q Search

< 1 > ⚙️

Key	Value
No parameters	
There are no parameters defined in your template	

Step 3: Configure stack options

Edit

Tags

Q Search tags

< 1 >

Key	Value
No tags	
There are no tags defined for this stack	

Permissions

No permissions

There is no IAM role associated with this stack

Stack failure options

Delete newly created resources during a rollback

Deactivated

No stack policy

There is no stack policy defined

Monitoring time

CloudWatch alarm ARN

1

SNS topic ARN

No notification options

There are no notification options defined

SNS topic ARN

No notification options

There are no notification options defined

Timeout

Termination protection
Deactivated

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



AWS Notification - Subscription Confirmation ▶ Inbox x



CloudFormation Notifications <no-reply@sns.amazonaws.com>
to me ▾

You have chosen to subscribe to the topic:
arn:aws:sns:us-east-1:866650389532:cloudformation-notifications

To confirm this subscription, click or visit the link below (If this was in error no action is necessary):
[Confirm subscription](#)

Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to [sns-opt-out](#)



CloudFormation Notifications <no-reply@sns.amazonaws.com>
to me ▾
⋮

↩ Reply ➦ Forward 😊



Stacks (1)



Filter by stack name

Filter status

Active

View nested

< 1 >

Stacks

CLOUDFORMATIONASSIGNMENT3SNS

2024-05-20 21:54:29 UTC+0530

CREATE_COMPLETE

CLOUDFORMATIONASSIGNMENT3SNS



Delete

Update

Stack actions

Create stack

Stack info

Events

Resources

Outputs

Parameters

Template

Change sets

Git sync - new

Events (13)

Detect root cause



Search events



Timestamp	Logical ID	Status	Detailed status	Status reason
2024-05-20 21:54:56 UTC+0530	CLOUDFORMATIONASSIGNMEN T3SNS	CREATE_COMPLETE	-	-
2024-05-20 21:54:55 UTC+0530	S3Bucket	CREATE_COMPLETE	-	-
2024-05-20 21:54:43 UTC+0530	CLOUDFORMATIONASSIGNMEN T3SNS	CREATE_IN_PROGRESS	CONFIGURATION_COMPLET E	Eventual consistency check initiated
2024-05-20 21:54:43 UTC+0530	S3Bucket	CREATE_IN_PROGRESS	CONFIGURATION_COMPLET E	Eventual consistency check initiated
2024-05-20 21:54:34 UTC+0530	SNSSubscription	CREATE_COMPLETE	-	-
2024-05-20 21:54:34 UTC+0530	SNSSubscription	CREATE_IN_PROGRESS	-	Resource creation Initiated
2024-05-20 21:54:33 UTC+0530	SNSSubscription	CREATE_IN_PROGRESS	-	-
2024-05-20 21:54:33 UTC+0530	S3Bucket	CREATE_IN_PROGRESS	-	Resource creation Initiated

Stacks (1)



🔍 *Filter by stack name*

Active ▼

☒ View nested

< 1 >

Stacks

CLOUDFORMATIONASSIGNMENT3SNS

2024-05-20 21:54:29 UTC+0530














✔ CREATE_COMPLETE

Detect root cause



 *Search events*



Timestamp	Logical ID	Status	Detailed status	Status reason
2024-05-20 21:54:43 UTC+0530	CLOUDFORMATIONASSIGNMEN T3SNS	 CREATE_IN_PROGRESS	 CONFIGURATION_COMPLET E	Eventual consistency check initiated
2024-05-20 21:54:43 UTC+0530	S3Bucket	 CREATE_IN_PROGRESS	 CONFIGURATION_COMPLET E	Eventual consistency check initiated
2024-05-20 21:54:34 UTC+0530	SNSSubscription	 CREATE_COMPLETE	-	-
2024-05-20 21:54:34 UTC+0530	SNSSubscription	 CREATE_IN_PROGRESS	-	Resource creation Initiated
2024-05-20 21:54:33 UTC+0530	SNSSubscription	 CREATE_IN_PROGRESS	-	-
2024-05-20 21:54:33 UTC+0530	S3Bucket	 CREATE_IN_PROGRESS	-	Resource creation Initiated
2024-05-20 21:54:33 UTC+0530	SNSTopic	 CREATE_COMPLETE	-	-
2024-05-20 21:54:32 UTC+0530	SNSTopic	 CREATE_IN_PROGRESS	-	Resource creation Initiated
2024-05-20 21:54:31 UTC+0530	SNSTopic	 CREATE_IN_PROGRESS	-	-
2024-05-20 21:54:31 UTC+0530	S3Bucket	 CREATE_IN_PROGRESS	-	-
2024-05-20 21:54:29 UTC+0530	CLOUDFORMATIONASSIGNMEN T3SNS	 CREATE_IN_PROGRESS	-	User Initiated