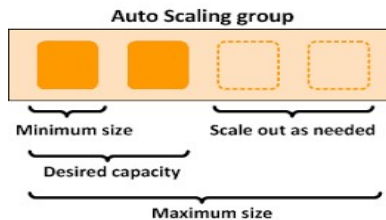


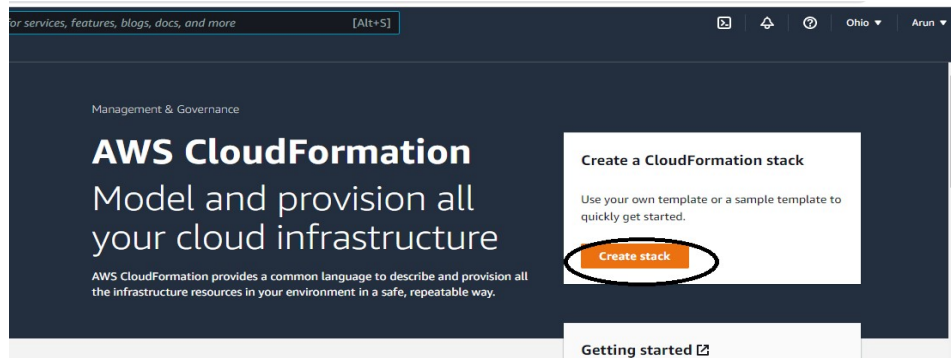
## ASG with CloudFormation

An Auto Scaling group contains a collection of Amazon EC2 instances that are treated as a logical grouping for the purposes of automatic scaling and management. An Auto Scaling group also enables you to use Amazon EC2 Auto Scaling features such as health check replacements and scaling policies.

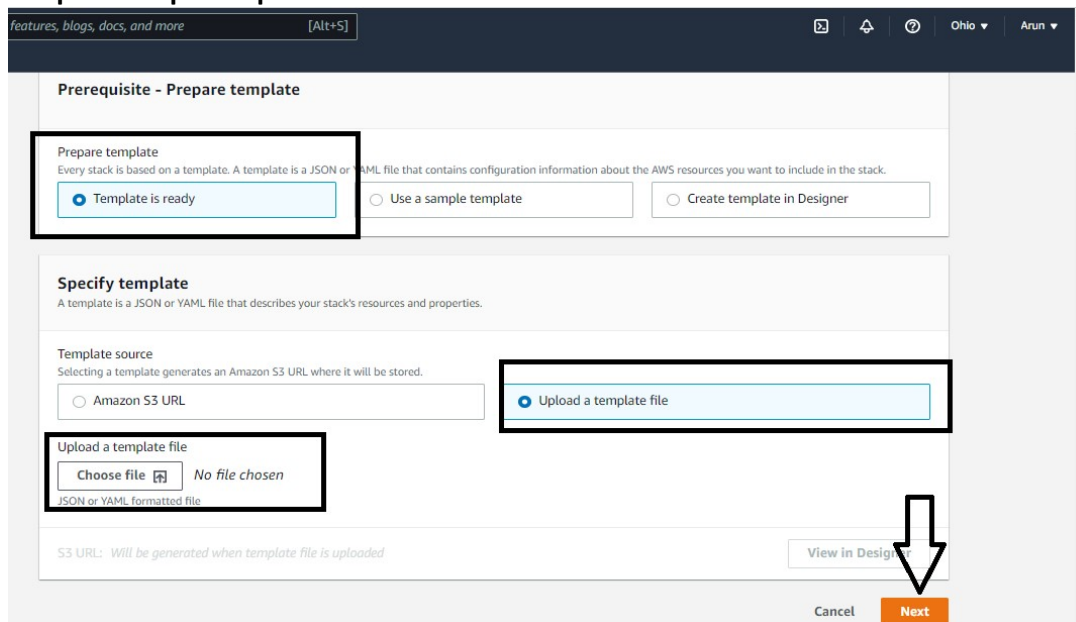


### Uploading Template file :

#### 1. Create stack :



#### 2. Prepare template upload it to to stack



### 3. Enter Stack name and Next

res, blogs, docs, and more [Alt+S]

Specify stack details

**Stack name**

Stack name

Enter a stack name

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**



### 4. Tags

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Configure stack options

**Tags**

You can specify tags (key-value pairs) to apply to resources in your stack. You can add up to 50 unique tags for each stack. [Learn more](#)

Key Value Remove

Add tag

**Permissions**

Choose an IAM role to explicitly define how CloudFormation can create, modify, or delete resources in the stack. If you don't choose a role, CloudFormation uses permissions based on your user credentials. [Learn more](#)

**IAM role - optional**

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

iamRoleName Remove

## 5.click Next

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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

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. [Learn more](#)
- ▶ **Notification options**
- ▶ **Stack creation options**

Cancel Previous **Next**

## 5. Review and Acknowledge

more [Alt+S] Ohio Arun

### Stack creation options

Timeout  
-

Termination protection  
Disabled

▶ Quick-create link

### Capabilities

**The following resource(s) require capabilities: [AWS::IAM::Role]**  
This template contains Identity and Access Management (IAM) resources that might provide entities access to make changes to your AWS account. Check that you want to create each of these resources and that they have the minimum required permissions. [Learn more](#)

☒ I acknowledge that AWS CloudFormation might create IAM resources.

Cancel Previous Create change set **Create stack**

## Yaml Code :

### Parameters:

#### KeypairName:

Description: Name of an existing EC2 KeyPair to enable SSH access to the instance

Type: AWS::EC2::KeyPair::KeyName

ConstraintDescription: must be the name of an existing EC2 KeyPair.

#### MyImageId:

Type: String

### Resources:

#### MyAutoScalingLaunchConfiguration:

Type: AWS::AutoScaling::LaunchConfiguration

#### Properties:

KeyName: !Ref KeypairName

ImageId: !Ref MyImageId

SecurityGroups:

- !Ref MySecurityGroup

InstanceType: t2.micro

In this block we are going to create Auto scaling group launch configurations.

#### MySecurityGroup:

Type: AWS::EC2::SecurityGroup

#### Properties:

GroupDescription: Allowing SSH from everywhere

SecurityGroupIngress:

- IpProtocol: tcp

ToPort: '22'

FromPort: '22'

CidrIp: 0.0.0.0/0

- IpProtocol: tcp

ToPort: '80'

FromPort: '80'

CidrIp: 0.0.0.0/0

- IpProtocol: tcp

In this block we are going to create security group for our Auto scaling group launch configurations.

ToPort: '443'

FromPort: '443'

CidrIp: 0.0.0.0/0

MyAutoScalingGroup:

Type: AWS::AutoScaling::AutoScalingGroup

Properties:

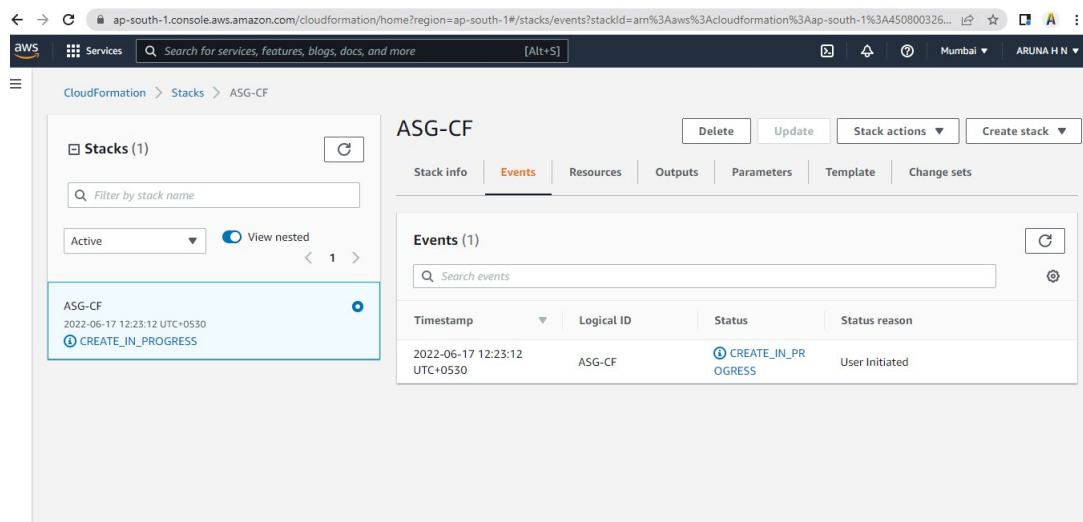
AvailabilityZones: !GetAZs

MinSize: '2'

MaxSize: '4'

LaunchConfigurationName: !Ref MyAutoScalingLaunchConfiguration

In this We are going to create Auto Scaling Group. Min siz is 2 and Max size is 4.



The screenshot displays the AWS CloudFormation console for the 'ASG-CF' stack. The left sidebar shows the 'Stacks (1)' list with 'ASG-CF' selected, indicating a 'CREATE\_IN\_PROGRESS' status. The main panel shows the 'Events' tab for this stack, displaying a table of events.

Timestamp	Logical ID	Status	Status reason
2022-06-17 12:23:12 UTC+0530	ASG-CF	CREATE_IN_PROGRESS	User Initiated

Resources (3)

Q Search resources

Logical ID	Physical ID	Type
MyAutoScalingGroup	ASG-CF-MyAutoScalingGroup-FLSWQ0F2HJ5D	AWS::AutoScaling::AutoScalingGroup
MyAutoScalingLaunchConfiguration	ASG-CF-MyAutoScalingLaunchConfiguration-1vDVMhiNUTVE	AWS::AutoScaling::LaunchConfiguration
MySecurityGroup	ASG-CF-MySecurityGroup-11HKM3COWCP4	AWS::EC2::SecurityGroup

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EC2 > Auto Scaling groups

Auto Scaling groups (1/1)

Q Search your Auto Scaling groups

< 1 >

<input checked="" type="checkbox"/>	Name	Launch te...	Instan...	Status	Desire...	Min	Max	Availability Z...
<input checked="" type="checkbox"/>	ASG-CF-MyAutoS...	ASG-CF-MyA...	2	-	2	2	4	ap-south-1c, a

Desired capacity

2

Minimum capacity

2

Maximum capacity

4

Auto Scaling group name

ASG-CF-MyAutoScalingGroup-FLSWQ0F2HJ5D

Date created

Fri Jun 17 2022 12:23:26 GMT+0530 (India Standard Time)

Amazon Resource Name (ARN)

arn:aws:autoscaling:ap-south-1:450800326274:autoScalingGroup:a136062a-2d1d-4bf7-bc7b-6610c75a29bd:autoScalingGroupName/ASG-CF-MyAutoScalingGroup-FLSWQ0F2HJ5D