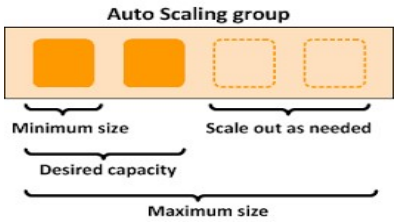
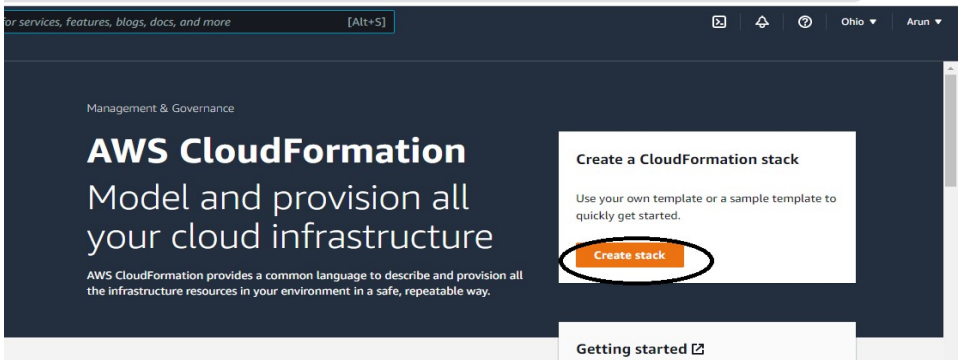
ASG with CloudFormation

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.

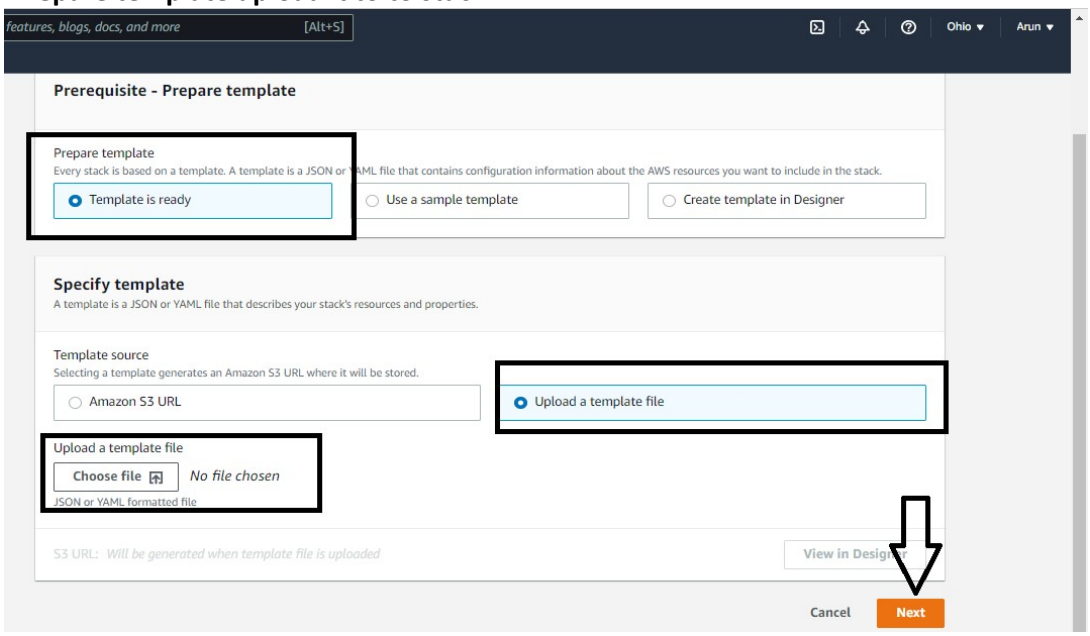


Uploading Template file :

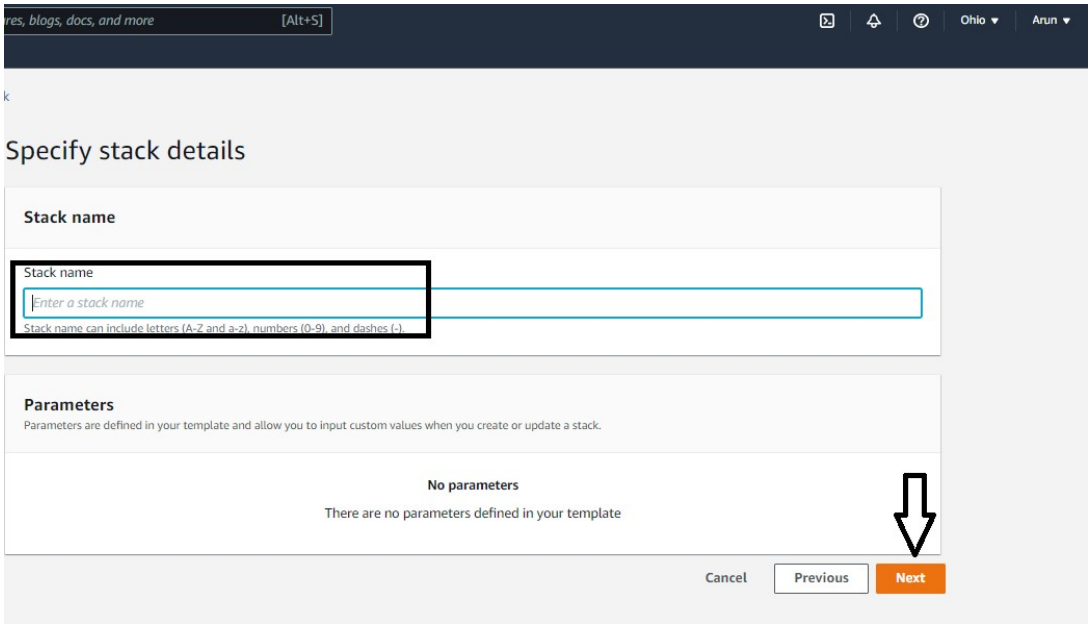
1. Create stack :



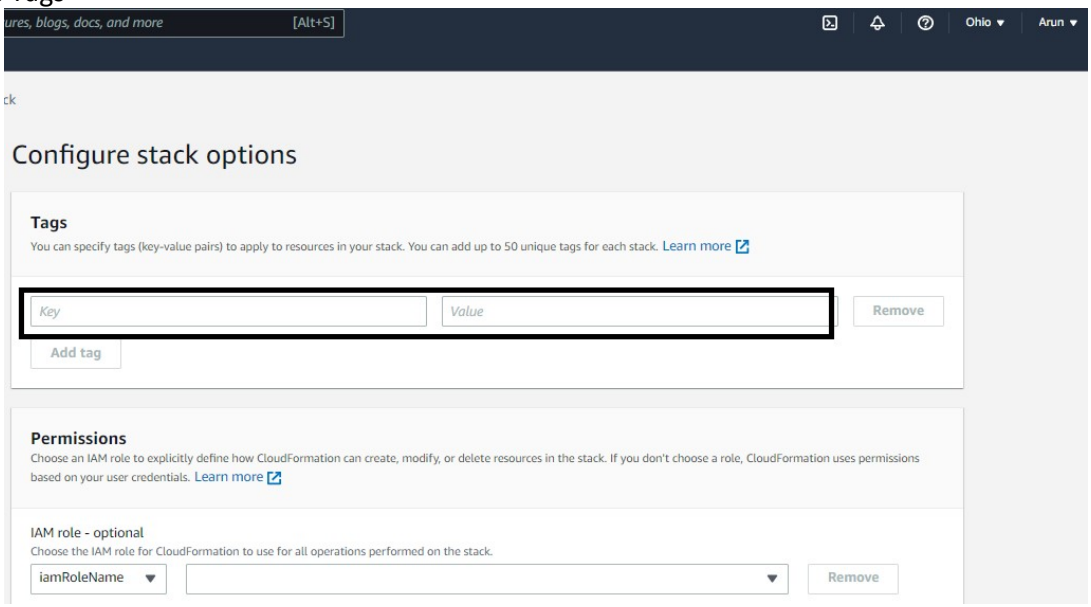
2. Prepare template upload it to to stack



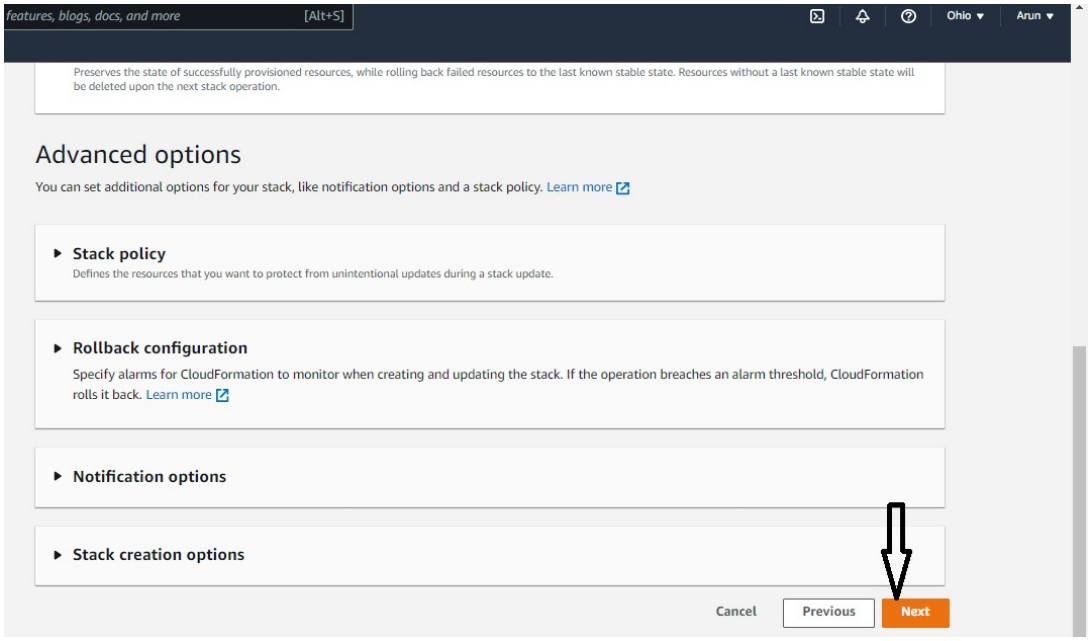
3. Enter Stack name and Next



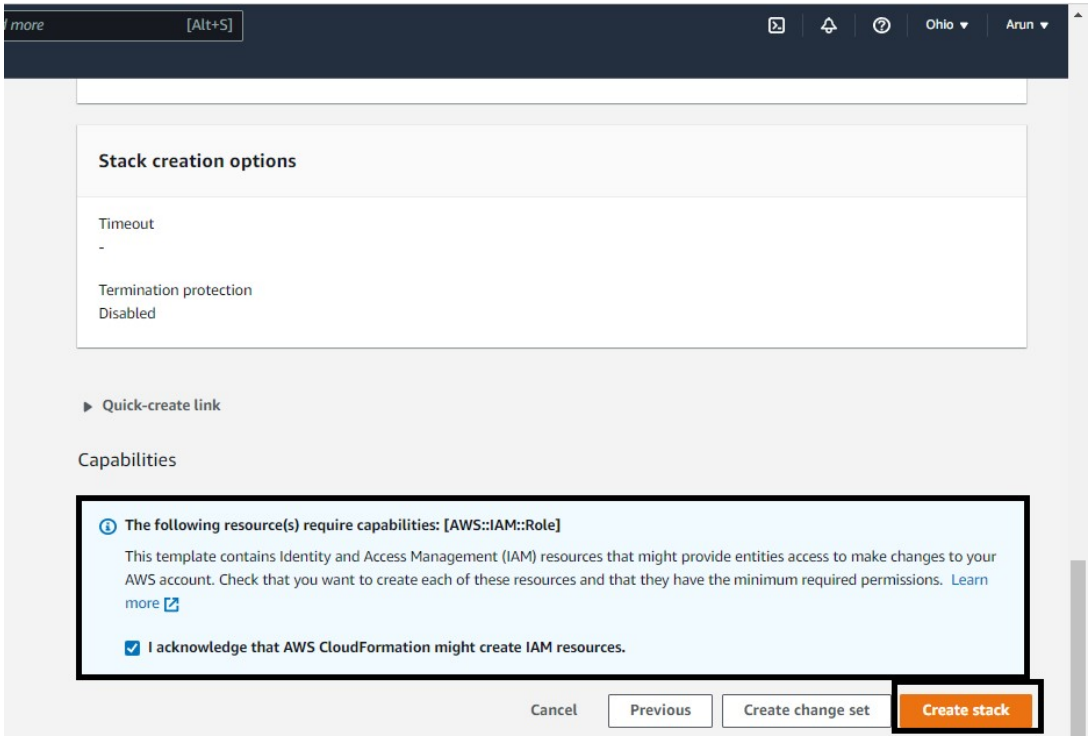
4. Tags



5.click Next



5. Review and Acknowledge



Yaml Code :

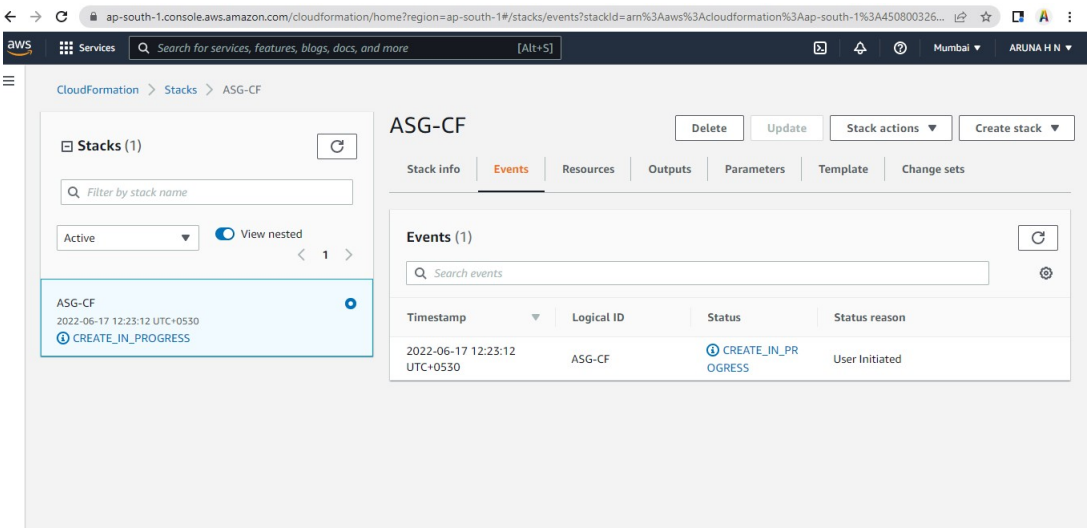
```
Parameters:
  KeypairName:
    Description: Name of an existing EC2 KeyPair to enable SSH access to the instance
    Type: AWS::EC2::KeyPair::KeyName
    ConstraintDescription: must be the name of an existing EC2 KeyPair.
  MyImageId:
    Type: String
Resources:
  MyAutoScalingLaunchConfiguration:
    Type: AWS::AutoScaling::LaunchConfiguration
    Properties:
      KeyName: !Ref KeypairName
      ImageId: !Ref MyImageId
      SecurityGroups:
        - !Ref MySecurityGroup
      InstanceType: t2.micro
  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
```

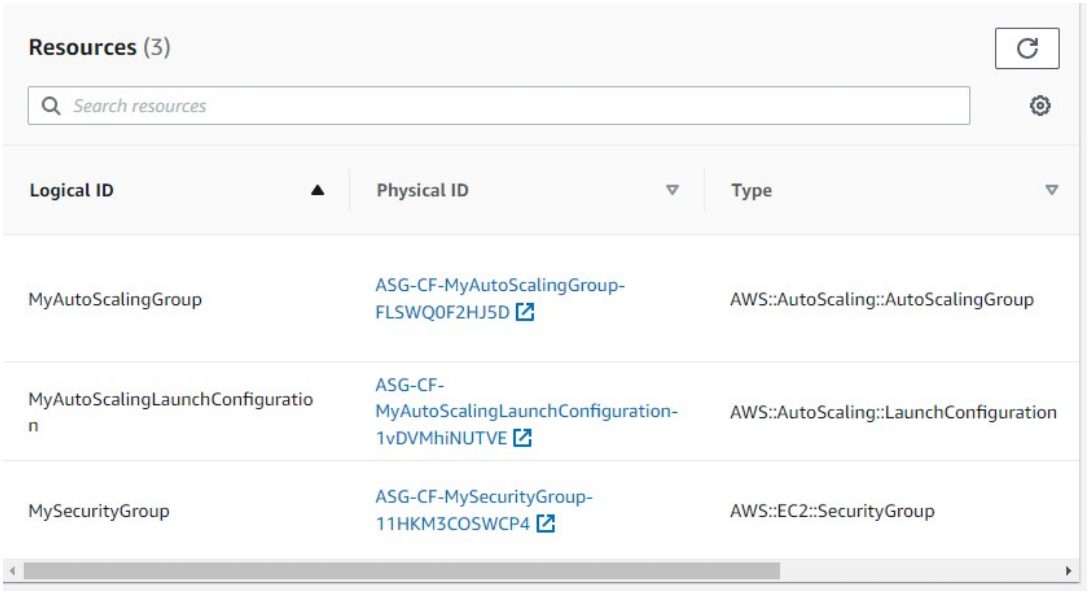
In this block we are going to create Auto scaling group launch configurations.

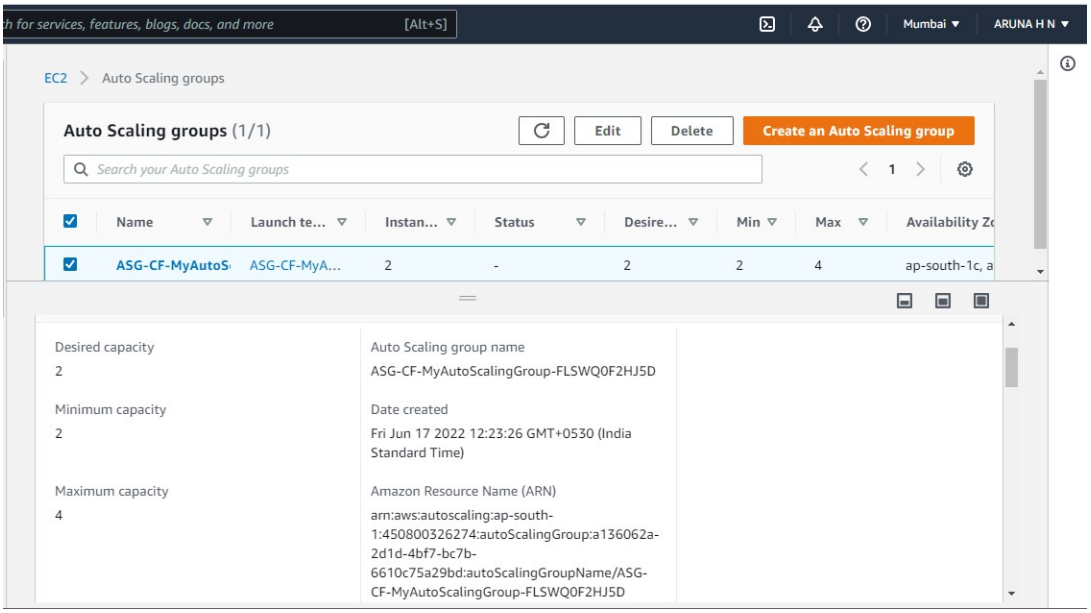
In this block we are going to create security group for our Auto scaling group launch configurations.

```
      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.




Resources (3)
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-11HKM3COSWCP4
AWS::EC2::SecurityGroup


[Alt+S]
Mumbai
ARUNA H N
EC2
Auto Scaling groups
Auto Scaling groups (1/1)
Edit
Delete
Create an Auto Scaling group
Search your Auto Scaling groups
Name
Launch te...
Instan...
Status
Desire...
Min
Max
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