



**LOGICLABS TECHNOLOGIES**

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# **Amazon Web Services**

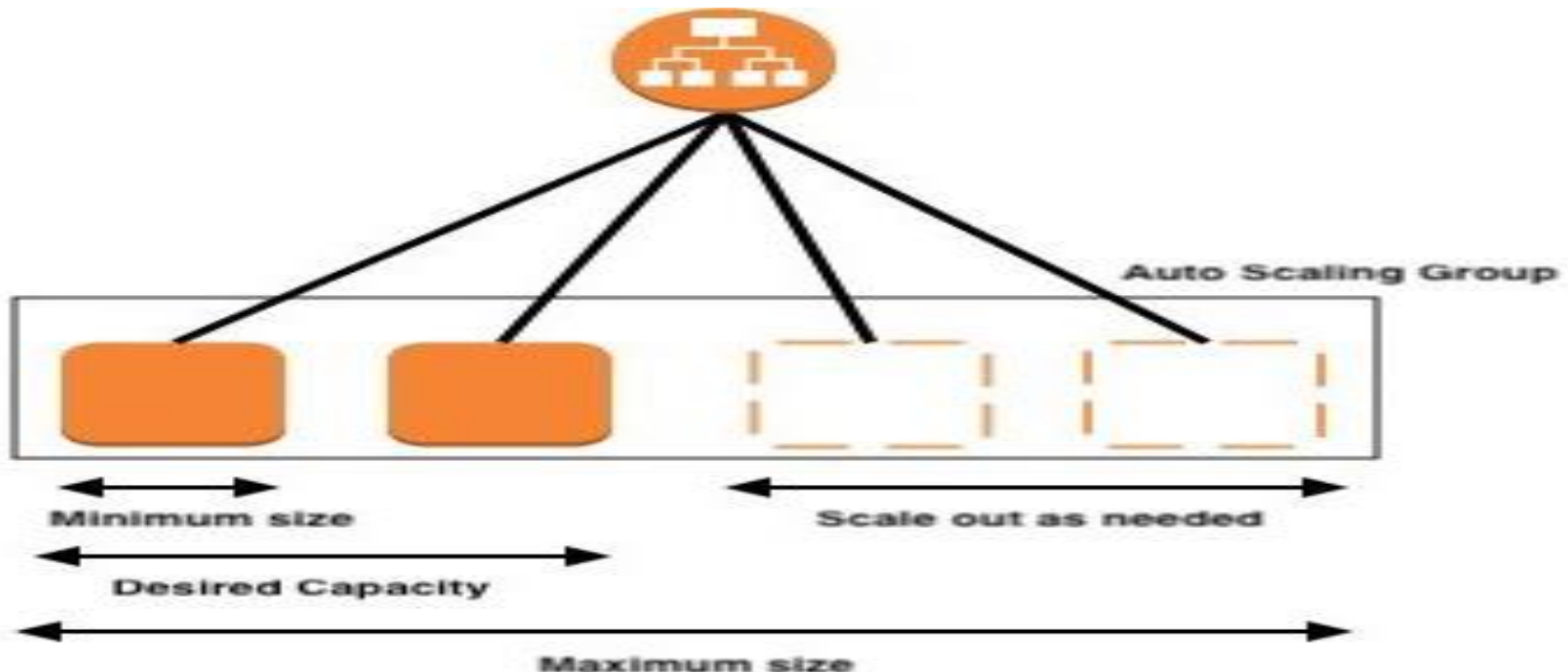
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## **Auto Scaling**

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# Auto Scaling

- Amazon EC2 Auto Scaling helps you maintain application availability and allows you to automatically add or remove EC2 instances according to conditions you define.

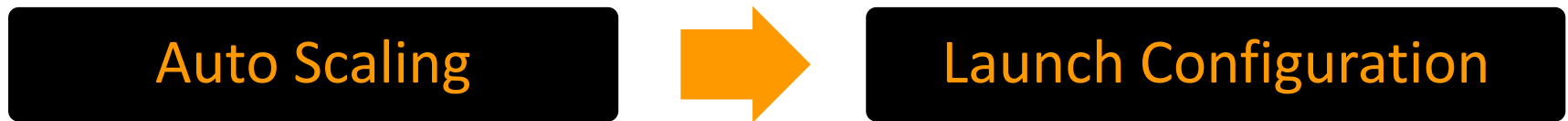


# Auto Scaling

- Steps we are following in Auto Scaling
- Create Launch configuration / Launch Template
- Create Topic in SNS ( Simple Notification Service )
- Create Auto scaling group
- Create Application Load Balancer
- Create Target Group
- Create Alarm in Cloud Watch
- Add Policy in Auto Scaling

# Auto Scaling

- **Create Launch configuration**
- A launch configuration is an instance configuration template that an Auto Scaling group uses to launch EC2 instances.



- Click on Create Launch Configuration
- Enter the name.
- Select Amazon Machine Image (AMI) (ami-08e0ca9924195beba)

# Auto Scaling

- Select Instance type
- Click on Choose Instance type
- Search instance type (t2.micro)
- Select our instance & Click on Choose
- Click on Advanced Option
- Add Bootstrap script Code: [Click Here](#)
- Select existing Security Group or create new security group
- Select existing Key Pair or create new key pair
- Click on Create Launch Configuration

# Auto Scaling

- **Create Topic in SNS (Simple Notification Service)**
- Search Simple Notification Service
- Enter the Name
- Click on Next Step
- Select type as Standard & Enter Display name
- Click on Create Topic

# Auto Scaling

- Click on Create Subscription
- Select protocol as Email
- Enter endpoint (Contact Email Address)
- Click on Create Subscription
- Now check our email address & Confirm
- Now check the status of SNS

# Auto Scaling

- **Create Auto Scaling Group**

- An AWS Auto Scaling group (ASG) is a fleet of EC2 instances that can scale up or down depending on application demand.

- Go to Launch Configuration

Auto Scaling



Launch Configuration

- Select the Launch Configuration

Actions



Create Auto Scaling Group



# Auto Scaling

- Enter the name of Auto Scaling
- Click on Next
- Select subnet
- Click on Next
- Select attach to a new load balancer (Create Application Load Balancer)
- Select load balancer schema as internet-facing
- For More info about Load Balancer schema: [Click Here](#)
- Select default routing as create a target group
- Click on Next

# Auto Scaling

- Enter the Group Size
- Click on Next
- Click on Add Notification
- Select SNS Topic
- Click on Next
- Click on Add Tag
- Enter the Key & Value
- Click on Next
- Click on Create Auto Scaling Group

# Auto Scaling

- **Create Alarm in Cloud Watch**
- Amazon CloudWatch is a monitoring and management service that provides data and actionable insights for AWS, hybrid, and on-premises applications and infrastructure resources
- Select CloudWatch
- Go to Alarms
- Click on In alarm
- Click on Create Alarm
- Click on Select metric

# Auto Scaling

- Select EC2
- Select By Auto Scaling Group
- Select CPUUtilization as Metric Name.
- Click on Select metric
- Select the Condition & Enter the value. (Greater than 80)
- Click on Next
- Select the Topic

# Auto Scaling

- Click on Next
- Enter Alarm Name & Description
- Click on Next
- Review & Click on Create Alarm
- Create one More alarm
- Select the Condition & Enter the value. (Lower than 30)

# Auto Scaling

- **Add Policy in Auto Scaling**
- Go to Auto Scaling Group
- Click on the Name of our Auto Scaling Group
- Go to Automatic Scaling tab
- Click on Create Dynamic Scaling Policy
- Change Policy Type to Simple Scaling

# Auto Scaling

- Enter the name of the Policy
- Select the CloudWatch Alarm
- Enter the Capacity Units. (How Many Machine Get Added While Reaching our Alarm Limit)
- Click on Create
- Like same we need to create one more policy when Load will be less on our machines then system will automatically delete those EC2 Machines.

# Auto Scaling - Deleting Process

- Delete Auto scaling
- Delete launch configuration (Instances will be terminated automatically)
- Delete Load balancer
- Delete Target Group
- Delete Topic
- Delete Alarm





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