**AUTO SCALING GROUP:**

* **It will automatically scale up and scale down the instances based on the traffic or load.**
* **It helps to maintain the high availability of our application.**
* **It is one of the components in EC2 dashboard.**
* **Auto Scaling Group will not work perfectly or efficiently without load balancer.**

**Types of Auto Scaling:**

* **Horizontal scaling**
* **Vertical scaling**

**Horizontal Scaling:**

**In which Servers or instances are increased horizontally which means add the servers.**

**Types of Horizontal scaling:**

* **Dynamic Scaling**
* **Predictive Scaling**
* **Schedule Action**

**Dynamic Scaling:**

**It will scale up or scale down the instances based on CPU utilization.**

**Predictive Scaling:**

**It will increase or decrease the servers based on or analyze the historical data and AWS itself will take decision.**

**Schedule Action:**

**It will scale in or scale out the instances based on Date and Time.**

**Vertical Scaling:**

**It will increase the specification like CPU ,MEMORY to existing server.It will not add the servers so application will go down for some time.**

**Steps to Create Auto Scaling Group:**

* **Go to EC2 Dashboard and click on Auto Scaling Group.**
* **First we need to create Launch Template before creating Auto Scaling Group or while creating Auto Scaling Group.**
* **Click on Create Auto scaling group.**
* **Enter the name of Auto scaling group.**
* **Select the Launch template whatever we have created earlier.**
* **Click on Next option and select the VPC .**
* **Select the two availability zone and subnet for high availability of application.**
* **Select the No Load Balancer option.**
* **Enter the health check grace period time whatever we want.**
* **Enter the Desired capacity ,minimum and maximum capacity of instances.**
* **Select the No scaling policies which is optional.**
* **Select the No policy option under instance maintenance policy.**
* **Click on next and add tags and click on next.**
* **Finally click on create auto scaling group.**
* **Go to Ec2 check whether the instances are creaed or not.**