**AutoScaling Groups:**

**ASG**: is used to scale up and scale down instances based on certian metrics.

there are two types:

1. **horizontal scaling** :Add more instances to the environment.

if we have 1 ec2 instance then it will add 1 new ec2 instanc aws will suport

* only horizantal scaling because in this new server will add automatical in this it will not delete by us.

1. **vertical scaling**:We add more power to existing instances.

t2.micro --> t2.medium

* aws will not provide vertical scaling because it will happens only manual scaling eg:sver ip should replace or adding new server.

ASG will work based on launch configuration and launch template.

We have 3 types os states in ASG.

Minimum : 1

Desired : 2

maximum : 5

Desired should be always greater than minimum.

**Launch Template and launch Configurations:**

Both launch template and launch configurations are similar.

**Launch template** support multiple versions of templates.

We can edit or override some parametes in launch template and it is recomended by aws.

**Launch configurations** are not edited and if we want to update any thing then we need to create new launch configuration again.

Not recomended by aws.