

AWS-AUTO SCALING -PRACTICAL

Step-1

--> To open the AWS console in the browser and login to the AWS console.

Step-2

-->Login to the AWS account by using the root name and followed by the password.

Step-3

-->Go to the search bar and type EC2

Then select the EC2 option

Step-4

-->In left corner there will be an option named LAUNCH INSTANCE and select the option

-->In that set the name as "AUTOSCALINGEC2-SERVER1".

Step-5

-->In the browser more at AIM click the option named as Windows Server 2012 R2 Base

Step-6

-->In the Instance type just click the **Free Tier Eligible option**

Step-7

-->In the Key Pair just set a name as **AutoScaling-Server1**

Click --> create

Download the key and copy & paste it on the desktop

Step-8

Click --> Network Settings

Click --> Edit option

Step-9

-->Then in the VPC -required just give default option

Step-10

-->In subnet mask take the second option

Step-11

-->In Auto-assign public option select **ENABLE option**

Step-12

-->Firewall (security groups) in this just select the **Create Security Group**

-->Then further in the Security group name just add
launch-wizard-ASEC2SG

-->Then just copy&paste in the below
option(**Description-required**)

Step-13

-->Inbound security groups rules

It will be as default in type as rdp and in source type as
anywhere

In the security group rule 2

Type option click **HTTP** and in the **source type set as
anywhere**

Step-14

Configure Storage

Storage by default **volume as 30 Gib** leave as it is.

Step-15

Review the summary instance

select the **Launch Substance** in the below

It will show as successfully initiated launch of instance

Step-16

Go to EC2 dashboard and in instance just refresh the page you will see an instance created

Step-17

Select instance which was created and then select the action on top corner

Select the option images and templates and then select **create image**

Step-18

Create image option set name as **ImageforAutoScaling1**

Copy the same name and paste it on the below option

Step-19

In bottom select Add new as **AutoScaling1**

Click -->create option

Step-20

Select Image --> go to AMI option and click

Have an coffee break

Once the server is deployed and wait for the **availability**

Step-21

Click--> AutoScaling --> Launch Configurations

Select -->create launch configurations

Step-22

Give name as AutoScalingAWS

AMI select --> ImageforAutoScaling

In the Instance Type click t2.micro(1 vCPUs,1 GiB, EBS only)

Step-23

Click --> Security groups

select --> Existing security group

In security groups click --> second option

Step-24

Key pair(login)

click the agree option in below

click --> create launch configurationg

Step-25

Click AutoScaling ----> Auto Scaling Groups

Give name --> MyAutoScalingGroup

Click --> Launch Configuration

Give name as MyLaunchConfiguration

Click on Next

Step-26

Choose instance launch options

In that VPC is set as default

In the below option click the three subnet options available

Click Next

Step-27

In load balancing click --> No load balancer

Click --> Health checks and set 60 seconds

Click Next

Step-28

Click --> Configure group size and Scaling policies

Set--> desired capacity as 2

Minimum capacity as 1

Maximum capacity as 3

Step-29

Scaling policies

click --> Target tracking scaling policy

Scaling policy name as default

Metric type is Average CPU utilisation

Set --> target value as 50

Set--> instance speed as 60

Click on Next

Step-30

It'll direct to Add notifications

Click on Next

Step-31

Click --> Add Tags

In key (Name)

In Value (AutoScaling)

Click Next

Step-32

It'll direct you to review option

Just overview the work of what you have done

If you are sure then click Create Auto Scaling group option

It will say that you have created successfully

Step-33

Go --> EC2 Dashboard

Click --> Instances

Click --> second option and rename it as

AutoScalingServer2

Do same for third option and rename it as

AutoScalingServer3

Step-34

To connect one by one all servers

Click first instance (Instance id) and connect that instance

Click --> connect

Click --> RDP client

Step-35

Downloaded the remote desktop file and create the folder

AutoScaling and paste it on desktop

Step-36

Click --> get password

Click --> browse option

Select the file which we wanna select

It will be in pem file

Click --> Decrypt password

It'll show that your Password Decryption successful

Step-37

Right click---> New---> Text document

Name it as **a.bat** and save it in desktop

Step-38

Then go to EC2---> Instances and click the Server 3 just do same procedure as done in above server

Step-39

In the desktop AutoScaling file will be exist in which we have to run it by using the password

Check out we have two remote access

Step-40

Try to increase the load by clicking on bat file on desktop

Repeat it for other bat file

Step-41

Go to EC2 dashboard and wait until the next server to be automatically create

If the next server created automatically then we have successfully obtained the output.

How to delete step by step in Auto Scaling

Step-1

Go to Auto Scaling groups

Select the MyAutoScaling then click on --> Delete

To confirm delete --> type delete in the field

It may take time wait for sometime

Step-2

Go to Auto Scaling

Select Launch Configurations

Select the **MyLaunchConfiguration**

Click action --> **Delete launch configuration**

Step-3

Go to **EC2 dashboard** and **click on Instances**

Click --> 3 Instances --> Instance state

Click --> **Terminate all Instances**

Step-4

Go to Images --> AMIs

Select **ImageforAutoScaling1**

Click --> Action and select --> **Deregister AMI**

Step-5

Go --> EC2 dashboard

Click --> **key pairs** --> **Select key** --> **Action**

Click --> Delete --> confirm

Step-6

Go --> EC2 dashboard

Click on **Snapshot** --> **select snapshot** --> **Action**

Click on **Delete snapshot** --> **confirm**

Step-7

Go --> EC2 dashboard

Click--> Security Groups --> select security --> Action

Click --> Delete security --> Confirm

Thank you.....

