22-06-20

How to launch a Windows ec2 instance..

Instance = Virtual Server runs in an AZ..

Mumbai = ap-south-1 : ap-south-1a, 1b & 1c..

Step 1 : Choose an AMI (Amazon Machine Image) :

--> Quickstart

--> My AMI

--> Community AMI

--> AWS Marketplace

OS Hardening : CIS Center for internet security: Set OS benchmarks..

Step 2 : Choose the Instance type.. : vCPU, Memory and Network Performance..

General Purpose : Stable perf.. : t2, t3, m4, m5, m5a..

Compute optimized : More CPU power : c4, c5, c5n

GPU Instances : More grahic resources : p2, g4dn

Memory optimised : More memory resources: r4, r5, r5a, r5ad, x1e, Z1d

Storage optimized : More disk usage : d2, i2, i3, i3en..

launch t2.micro.. 1 vCPU, 1 GB RAM..

c5.xlarge : 4vCPU, 8 RAM

m5.xlarge : 4vCPU, 16 RAM

t3.large : 2vCPU, 8 RAM

Step 3: Configure Instance Details

Shutdown behavior : STOP

Enable termination protection : Enabled

Step 4: Add Storage

Step 5 : Add tags

Step 6: Configure Security Group

Windows : RDP : 3389 : 0.0.0.0/0

Linux : SSH : 22 : 0.0.0.0/0

Public Key and PrivateKey mechanism.. Encryption / Decryption..

AWS keeps, publicKey, WHen we launch any instance, AWS automatically place the public key in that instance...

Privatekey will be given to us when we create a keypair.. (file format .pem)..

How to connect :

Verify these settings if you are npt able to connect : Windows : RDP : 3389 : 0.0.0.0/0

Remote desktop connection : Goto start and serach for "Remote Desktop connection"

Open --> Run --> give "mstsc"

Task : Launch an ec2 instance and get connect and change the password, try with the keypair password and custom setup password.. Which one works..!!

Task 2 : Along with administrator, create an additional user and provide RDP access to that user, try to connect along with "administrator".

How to launch a windows ec2 instance?

We will discuss with windows and Linux OS both.

Console level operations will be same for both windows and Linux when coming to AWS level.

But OS level there will be difference, to install or perform that will be different.

Instance is virtual server runs in AZ [ Availability Zone ] is a data center or multiple data centers that runs within a region.

Now we are riunning these Data centers in Mumbai region.

Mumbai : ap –sount 1 data center , here we have three availability zones [AZ]

1. ap-south-1a
2. ap-soutb-1b
3. ap-south-1c are the three AZ’s.

Based on our requirement we can select the any one of AZ. or if fails to select any one of the AZ, it will pick which is Available AZ in that region.

In future I might get a specific requirement, I have a server in ap-south -1a, and I have to attack one more hard disk for that instance, in that case we need to verify where my instance is running.

**🡪Instance launch contains 7 steps:**

Step 1: choose an AMI [ Amazon Machine Image].

This is nothing but choosing an operating system, selecting an OS with OS template with required services and all.

We can choose from

1. direct Quick start ( it comes with plain OS)
2. if we have any customized AMI, [ My AMI ]( so we won’t launch every time plain OS, we will customize, ( we will have separate session on it)
3. community AMI ( Amazon segregate all the AMI based on the family OS, Architure, volume type, we can chooseit)
4. AWS marketplace ( this is the place where we can sell the application / purchase it)

Foe ex: in Quick start we find kali linux, we wont find it here,not in MY AMI, not in Cusotmize AMI. But when we go to AWS Market we can find it.

🡪OS Hardening? Or CIS ( Center for Internet Security) ?

So basically whatever OS we are running here that OS will match some standards.if we treat OS is secured then the OS should match these standards.

Ex: Organizations will have some standards right like CMM level1,L2,L5.. How there are going to achieve those standards, whenever they follow the defined standards.

In the same way for the OS there are some standards.

CIS delivers the OS benchmark.

If we don’t know the exact standards of OS, simply go to AWS marketplace, look for CIS for Windows or Linux we will get it.

IF we upload all from On Premises they all come under the My AMI’s.

7.07