**AWS: How to create EC2 Instance**

1. Login to your Account
2. Select EC2
3. Enter/Type the name of your Instance (e.i: MyTestInstance)
4. Select the Application & OS Image (e.i: OS: Ubuntu, Windows, Red Hat, Amazon)
5. Select the Instance Type (i.e. : t1.micro, t2.micro, C5.large)
6. Key Pair(Login):
   1. If available than select that
   2. if not create new key pair
      1. Enter the name of key pair
      2. Select the key pair type (e.i. : RSA or ED25519)
      3. Select the Private key file format (e.i : .pem(For use with OpenSSH) or .ppk(for use with PuTTY))
7. Network Setting
   1. Create or select the Firewall(Security group)
8. Configure Storage
   1. Add New Volume
   2. File System
9. Advance Details
   1. Request for spot instance
   2. Domain join directory
   3. IMA Instance Profile setup

**How Login & get Access AWS instance from local system**

* + - 1. Download & Install PuTTY or mobaxterm
      2. Get **.PPK or .PEM file** from AWS Console
      3. Convert .PEM(not ppk) file into private file (OpenSSH Authorization Key file )by using the PuTTY Gen. Not required for macOS
         1. Open PUTTYGen(Automatically install with Putty)
         2. Load your .PEM file
         3. Save the private
      4. Get **Public IP**, **Instance ID** & Users name Details from AWS console
      5. Open PuTTY
      6. Enter your **ID/Host Detail**s with **port** number
      7. Click on **Connection => SSH => Auth =>** Browse your new generate file(**PPK** -> Putty Private key file on window machine) for MacOS(simple use .PEM file)

**How to connect to an EC2 instance using SSH & Pem using Linux**

1. First check whether ssh client install or not in your local system

**Open Settings, then go to Apps > Apps & Features.** **Go to Optional Features.** **In the list, select OpenSSH Client or OpenSSH Server**

**Open Search => Manage Optional Feature => Check SSH Client & Server is install or not => if Not => Cliek on Add Icon => Search SSH and install both SSH Client and SSH Servre**

1. Go to pem file folder where you have keep it
2. Type the belo SSH command with this structure to connet your ec2 linux machine from your local system:

ssh -i file.pem username@ip-address=> Command Guide

**ssh -i "Test01.pem"** [**ubuntu@ec2-35-78-70-139.ap-northeast-1.compute.amazonaws.com**](mailto:ubuntu@ec2-35-78-70-139.ap-northeast-1.compute.amazonaws.com)

1. If if there is permission issue then type belo command(Run this command, if necessary, to ensure your key is not publicly viewable)

**chmod 400 Test01.pem**

**How to connect FTP/FileZila to an AWS EC2 instance using SSH & Pem using Linux**

1. Open FTP/FileZilla
2. Cliek on File => New Site Manager => Add New Site & Site Name
3. General =>
   1. Protocol => Select SFTP – SSH File Transfer Protocal
   2. Host Name: your public IP Address
   3. Logon Type=> Key File
   4. User => your eser name like(ubuntu or ec-2)
   5. Key File => Your PPK File
4. Connet

**How to Run & Install package/software/OS/Dependency on AWS Linux Server**

1. **sudo apt update=>** sudo apt update is the command used to download and update the package information from all of the configured source
2. **apt list --upgradable =>** For get list of package/software for update
3. **sudo apt-get update** => for update apt package
4. **sudo apt upgrade** => For upgrade all packages with latest version
5. **apt install <packageName>** =>To install new package on linux server
6. **sudo apt install nginx** => For the installation of nginx on linux server
7. **sudo ufw app list** => Adjust the Firewall before testing the nginx
8. **sudo ufw status** => to check firewall is active or not
9. **sudo ufw enable** => to enable firewall
10. **sudo apt install maven -**y => For install the maven with (-y) agree consent
11. **cat /etc/os-release** => To check the install Linux / Ubuntu bersion
12. **nginx -v=> to check the install nginx version**
13. **java --version** => To check install java version
14. **mvn –version** => To check the install Maven version









