Multicloud Project Based Internship at IOC

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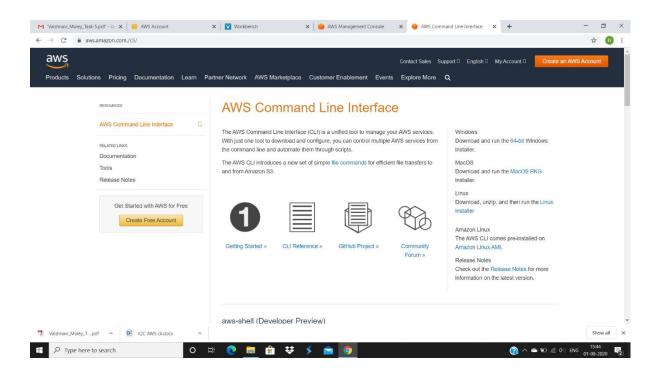
Ambassador Name: Atharav Panchpor.

College Name: Deogiri Institute of Engineering and Management Studies.

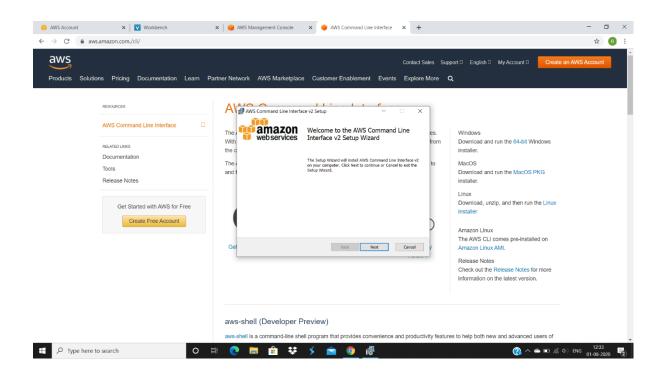
TASK

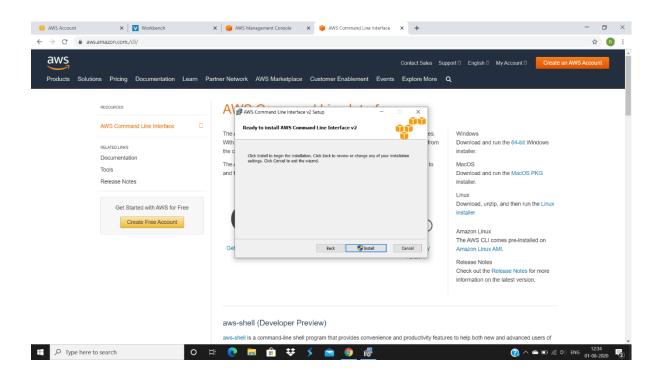
Create a 3G EBS volume and attach it to one running instance and create a 1GB partition on that and mount it on one directory. no need to make /etc/fstab entry. Remember all this thing using AWS CLI and terminal only.

Step 1: Install the AWS command line interface. (go to https://aws.amazon.com/cli/ and download the installer. I downloaded 64-Bit Windows installer)

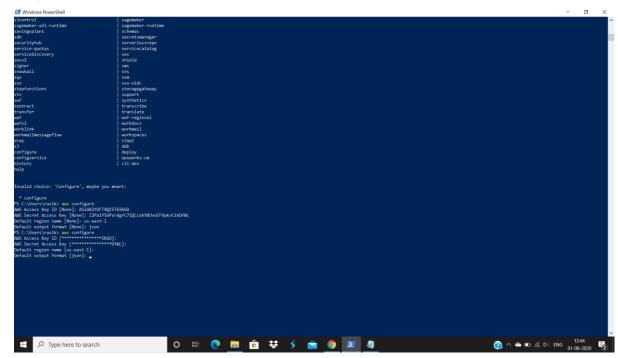


Then open it and keep everything as default and finish installation as shown below.





Step 2: Now go to Windows PowerShell and configure AWS CLI.



(Note: Fill the details as shown,

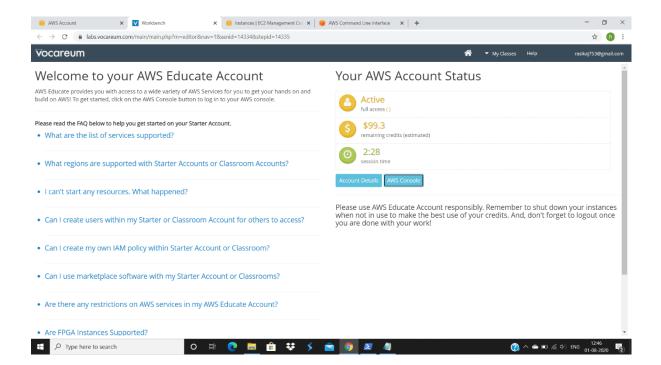
Default region name [None]: us-east-1

Default output format [None]: json

AWS Access Key ID [None]: insert your access key id

AWS Secret Access Key [None]: insert your secret access key

You can get both the key id and secret key from your account details as shown below)



Step 3: Write the following commands Create a key pair:

> aws ec2 create-key-pair --key-name name-of key --query "KeyMaterial" - output text

out-file -encoding ascii -filepath name-of-key.pem Create security group:

>aws ec2 create-security-group --group-name your-group-name --description "allow all tcp protocol" -

-output table Authorize

security group:

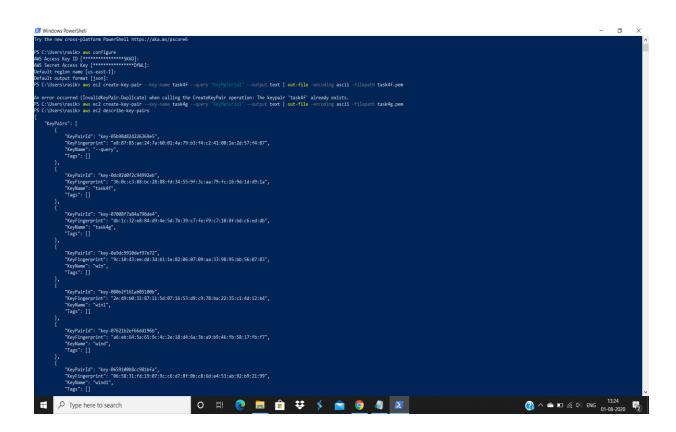
>aws ec2 authorize-security-group-ingress --group-name your-group-name - protocol tcp

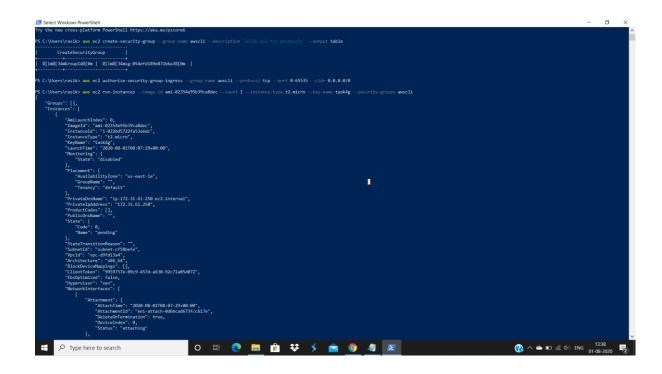
--port 0-65535 --cidr 0.0.0.0/0 Launch

instance:

>aws ec2 run-instances --image-id id-of-ami --count number-of-instances-tolaunch

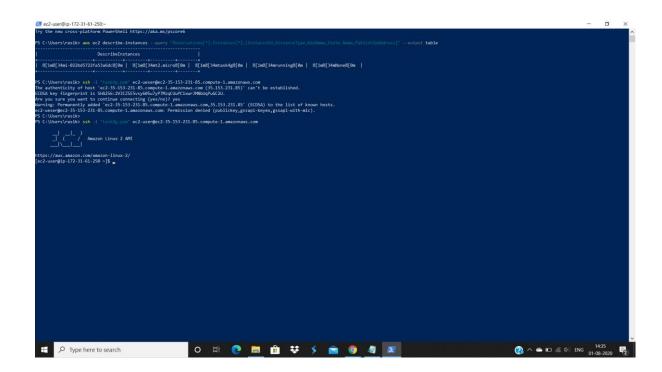
--instance-type your-choice --key-name your-key-name --security-group yourgroup-name



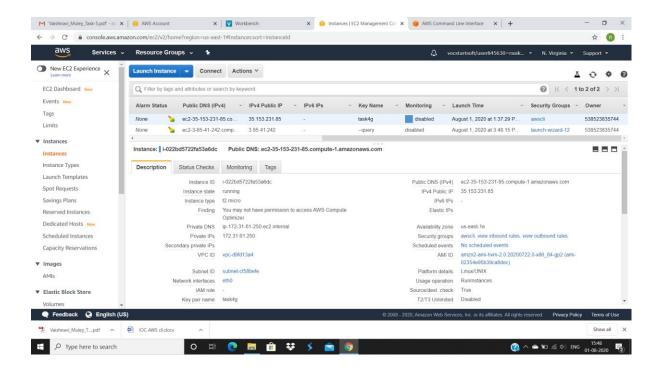


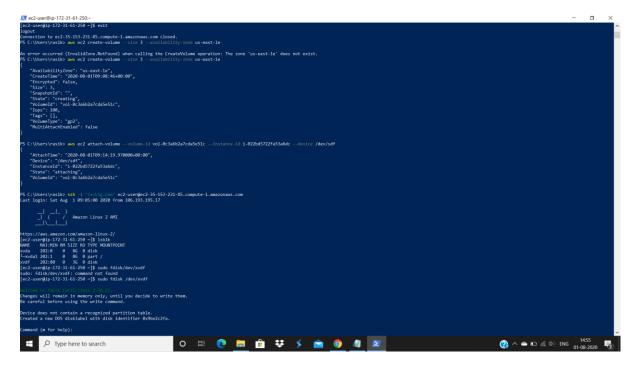
Step 4: Ssh the instance:

> ssh -i "your-key-name.pem" ec2-user@your-public-dns-of-instance



Step 5: The following window shows that we have successfully launched the instance using AWS CLI.





Step 6: Type the following commands

> aws ec2 create-volume –size 3 –availability-zone us-east-1e

> aws ec2 attach-volume –volume-id your-volume-id –instance-id your instance id –device /dev/sdf

> ssh -i "your-key-name.pem" ec2-user@your-public-dns-of-instance

Step 7: Now type the following commands

```
[ec2-user@ your-public-dns-of-instance]$ lsblk
[ec2-user@ your-public-dns-of-instance]$ sudo fdisk /dev/xvdf
Command (m for help): m
Command (m for help): n
Command (m for help): wq
[ec2-user@ your-public-dns-of-instance]$ sudo partprobe /dev/xvdf
[ec2-user@ your-public-dns-of-instance]$ sudo lsblk
[ec2-user@ your-public-dns-of-instance]$ sudo mkdir /ioc
[ec2-user@ your-public-dns-of-instance]$ sudo mkfs.xfs /dev/xvdf1
[ec2-user@ your-public-dns-of-instance]$ sudo mount /dev/xvdf1 /ioc
[ec2-user@ your-public-dns-of-instance]$ sudo touch filename.txt /ioc
[ec2-user@ your-public-dns-of-instance]$ ls
[ec2-user@ your-public-dns-of-instance]$ sudo lsblk
[ec2-user@ your-public-dns-of-instance]$ sudo lsblk
```

