Module 3: Introduction to DevOps on Cloud

Demo 2 – Launching an EC2 Instance

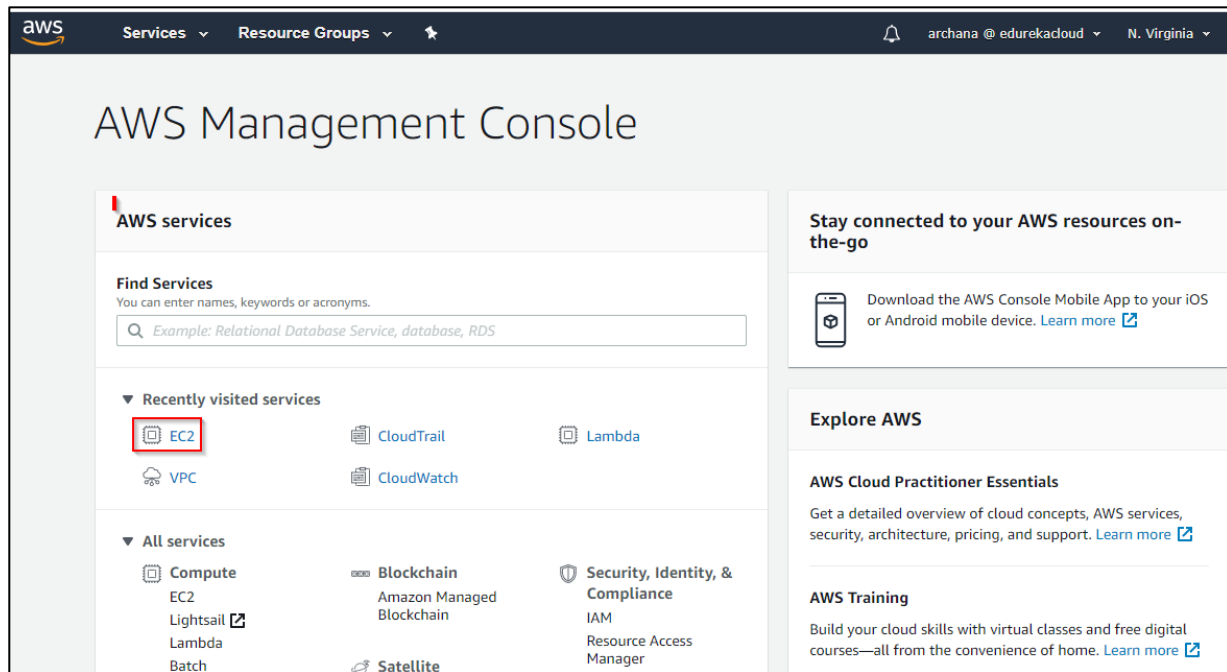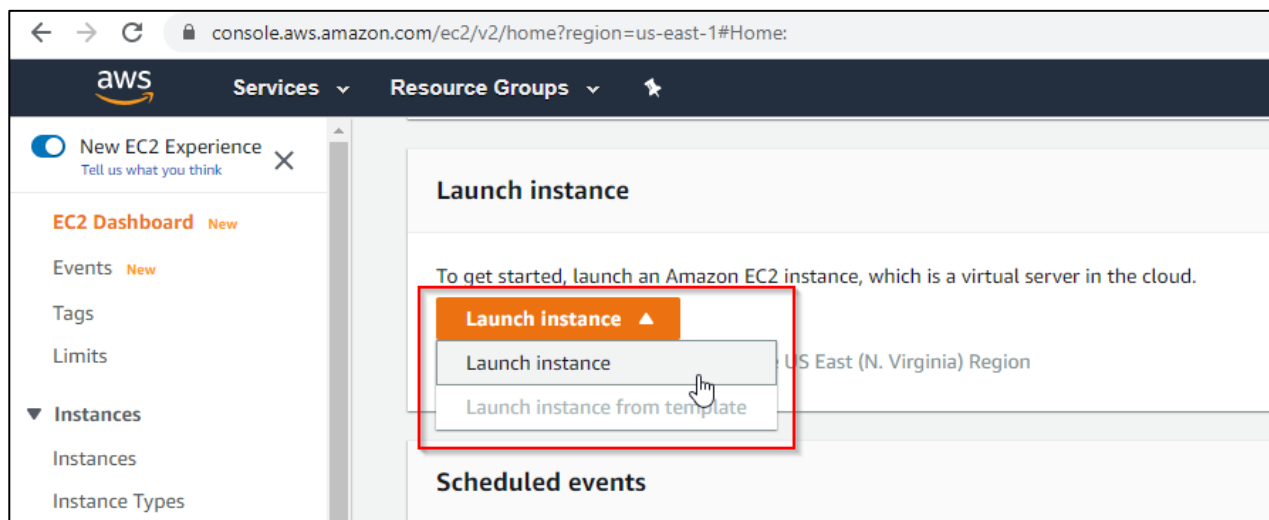edureka!

edureka!

Launching an EC2 Instance

Steps to launch an EC2 Instance:

Step 1: In Services menu select EC2 service. Remember EC2 Instance is region specific and EC2 instances created in one region will not be available to other regions.

Step 2: In EC2 dashboard scroll down and click on "Launch".

Step 3: Select an operating system. For this demo let's select Ubuntu Server AMI.

Step 4: Select t2.micro (Free tier eligible) and Click on "Next Configure Instance Details".

Step 5: Keep all the fields as it is. Click on "Add storage".

Step 6: Do not change any thing and click on "Next: Add Tags".

Step 7: Click on "Add another Tag" and add key and key values, click on "Next Configure Security Group". (Add tags is an optional key-value pair field, mostly used by user to categorize servers. E.g. Production, UAT, SIT etc. This helps administrator during billing of your AWS account.)

Step 8: Configure the security group and make changes as shown below.

Step 9: Click on "Launch".

Step 10: In "Select an existing key pair or create a new key pair" popup, select "Create a new key pair". Give a name for your key pair.

Do not forget to download key pair. Otherwise you will not be able to connect to your EC2 instances through SSH terminal (Putty, FileZilla, etc.). Finally click on **Launch Instances**.

Step 11: Get **Public IP or DNS name** to connect it through internet. Also note the Instance Id to connect through CLI.
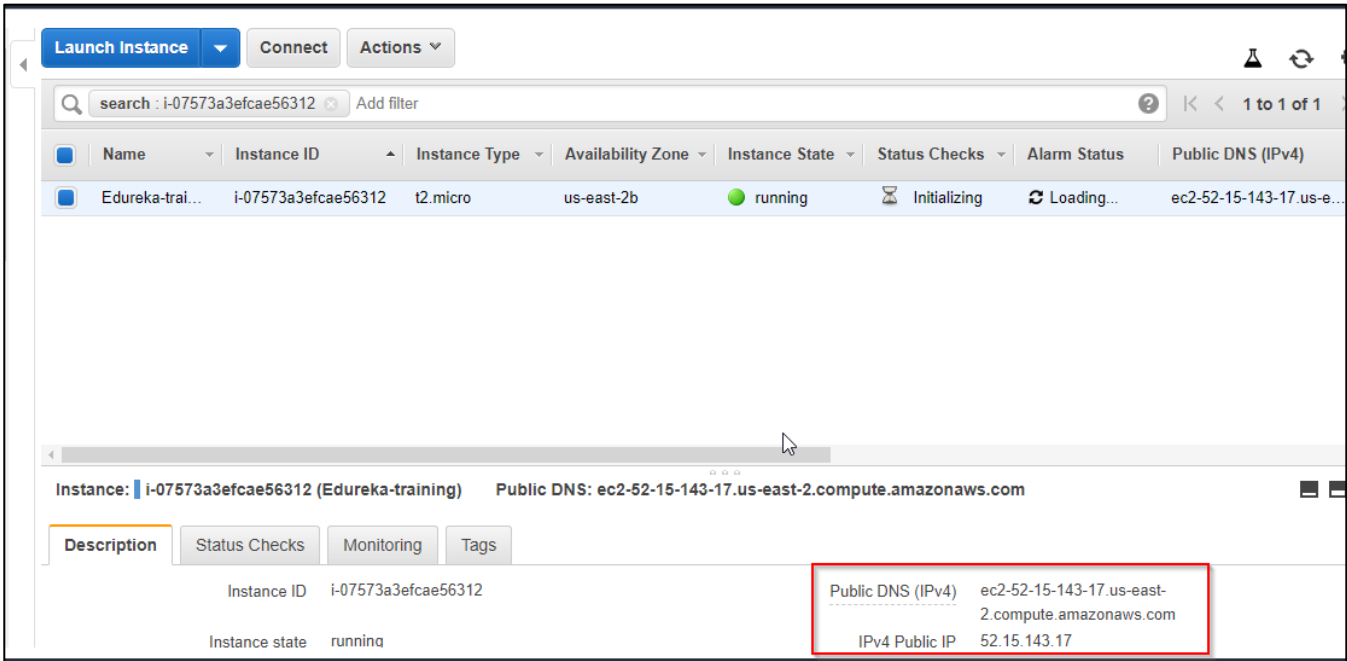
Step to connect to your Instance:

Step 1: Connect to your EC2 instance from SSH terminal.

- Launch Ubuntu instance in your console
- For Linux, Unix and Mac users -- **.pem** key pair can be used directly
- For Window users -- Convert **.pem** file to PPK file using PuTTYgen software

The different usernames for the AMIs are:

AMI Type	User Name
Linux AMI	ec2-user
Centos	centos
Debian	admin or root
Feroda	ec2-user or feroda
RHEL	ec2-user or root
SUSE	ec2-user or root
Ubuntu	ubuntu or root
Custom AMI	Check with AMI provider

- The default username for an Ubuntu machine is **ubuntu**

Use the command prompt to connect to your EC2 instance and type the following code.

```
ssh -i <.pem file Absolute path> username@public-IP
```

```
ssh -i  C:/Users/Edureka/Downloads/Key.pem ubuntu@13.1.53.42
```
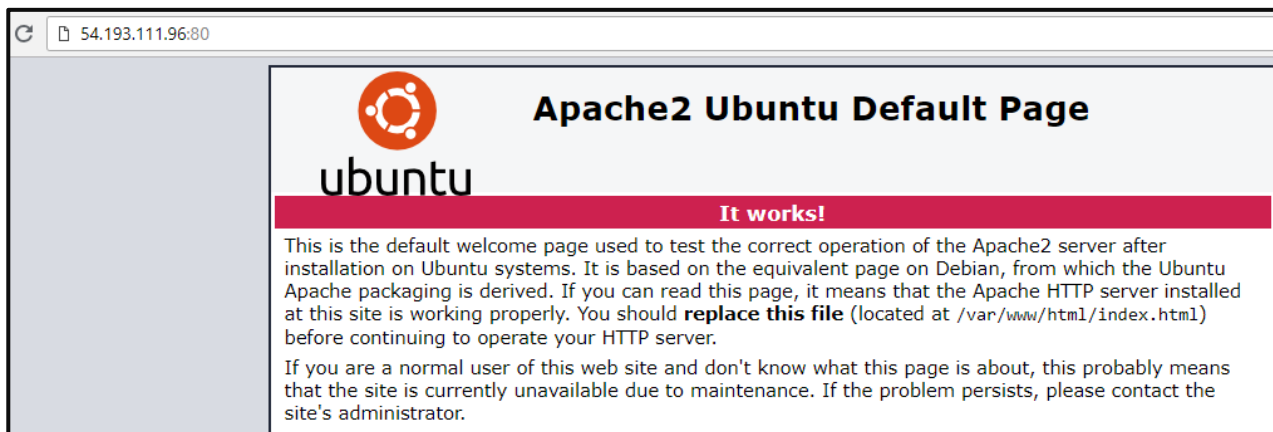
Step 2: Install your Apache server.

- Install your Apache server by executing the following commands:
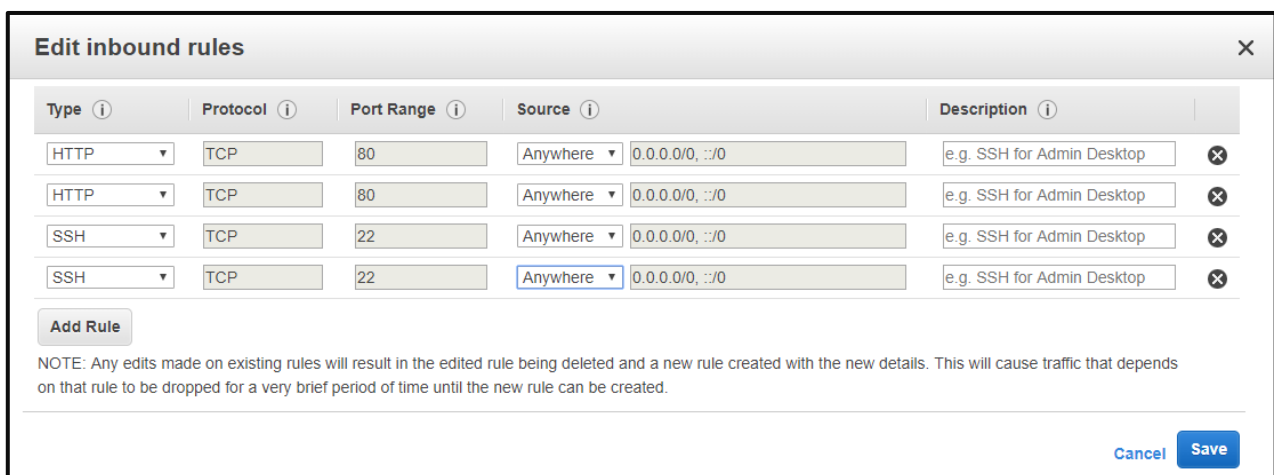
```
sudo apt-get update
```

> sudo apt-get install apache2

Step3: Test whether your apache server is running, by typing http://Public IP address:80 in your browser.

Step4: Troubleshoot.

- Check your security group, if you are not able to connect to the EC2 from the Internet

Conclusion

You have successfully configured an EC2 instance.