CMPE 281 Cloud Technologies Lab 1 Assignment Report

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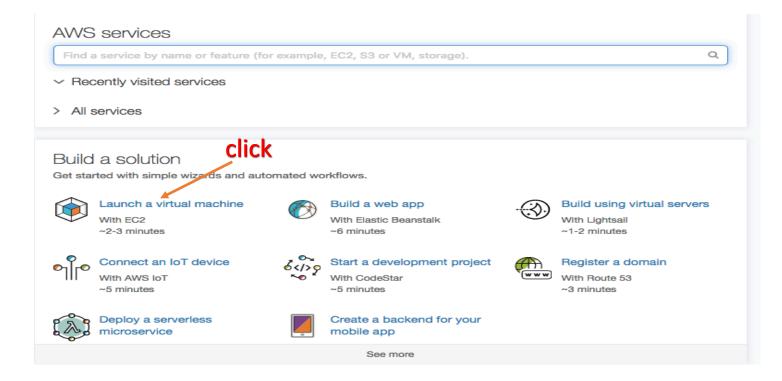
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Step1: Create a AWS free account.

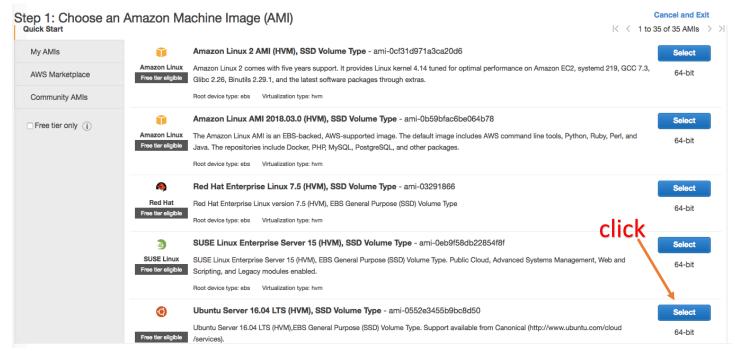


Step2: sign in to AWS console.



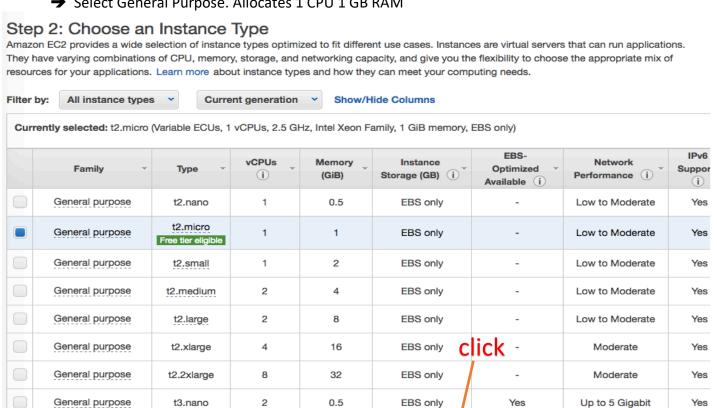
Step4: Choose a VM image.

→ Select Ubuntu Server 16.04 LTS.



Step5: Choose an Instance type.

→ Select General Purpose. Allocates 1 CPU 1 GB RAM



Cancel

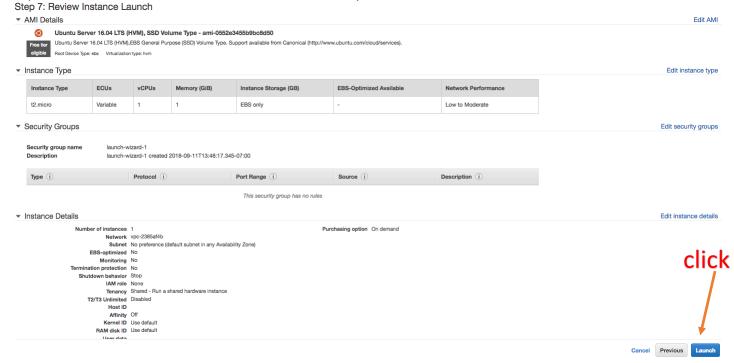
Previous

Review and Launch

Next: Configure Instance Details

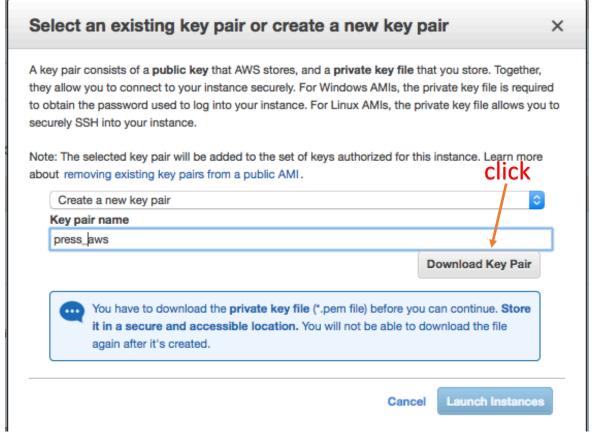
Step6: Click Review for Launch as shown above.

Step 7: Details about the instance will be shown, verify the details and click launch.

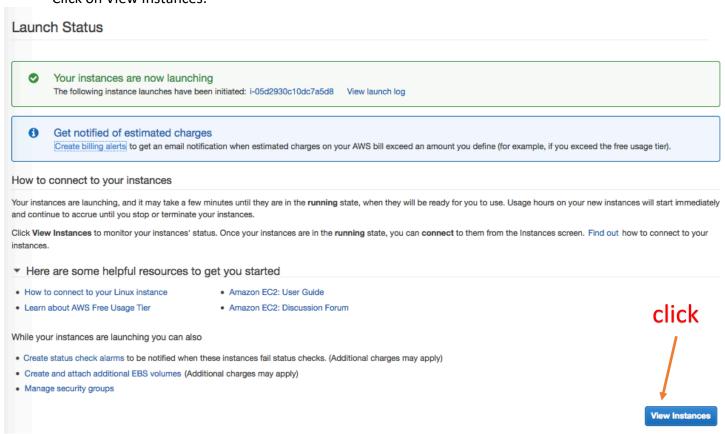


Step8: Select a key pair to approve for remote SSH connection.

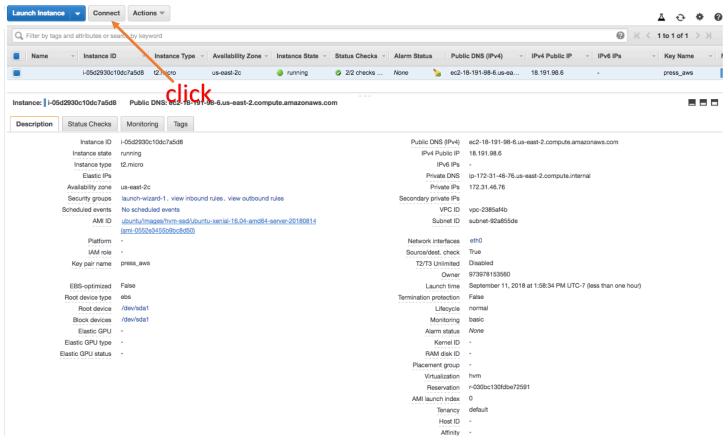
- → Create a new key pair and give a name to it.
- → Download the key pair which will be useful for instantiating connection.



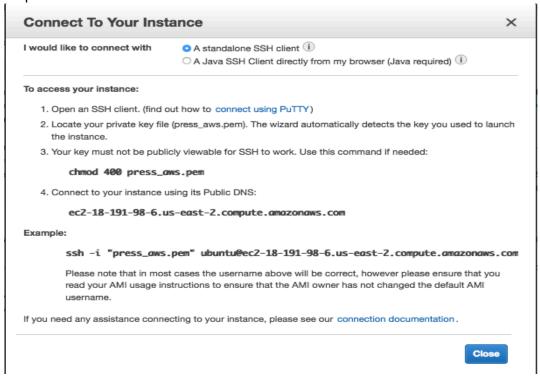
Step 9: we will be redirected to a page which shows some status information. Click on View Instances.



Step10: Instance and its details will be listed on the below page once view instance is clicked. Click on connect to make a remote connection to the created instance.



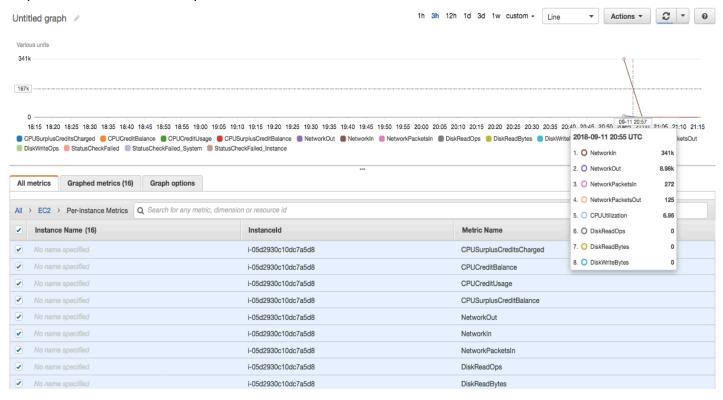
Step10: Follow the instruction to connect to the instance.



Step11: successful connection from my mac to aws instance.

```
[Prashanths-MacBook-Air:Desktop prashanth$ chmod 400 press_aws.pem
Prashanths-MacBook-Air:Desktop prashanth$ ssh -i "press_aws.pem" ubuntu@ec2-18-191-98-6.us-east-2.compute.amazonaws.com
The authenticity of host 'ec2-18-191-98-6.us-east-2.compute.amazonaws.com (18.191.98.6)' can't be established.
ECDSA key fingerprint is SHA256:86JJffL/Nd1rSzYqqbeVsZIXd8uRv75JrAVsz1EeKBg.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-18-191-98-6.us-east-2.compute.amazonaws.com,18.191.98.6' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 16.04.5 LTS (GNU/Linux 4.4.0-1065-aws x86_64)
 * Documentation: https://help.ubuntu.com
                  https://landscape.canonical.com
 * Management:
 * Support:
                  https://ubuntu.com/advantage
  Get cloud support with Ubuntu Advantage Cloud Guest:
    http://www.ubuntu.com/business/services/cloud
0 packages can be updated.
0 updates are security updates.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details. We are inside aws instance.
ubuntu@ip-172-31-46-76:~$
```

Step12: AWS CLoudWatch report on instance creation.



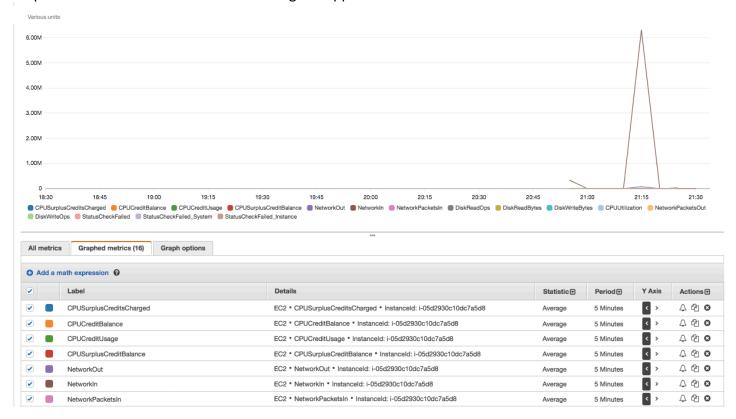
Step13: Planning to run a simple python application.

13.a: Install python 3.6 on ubuntu.

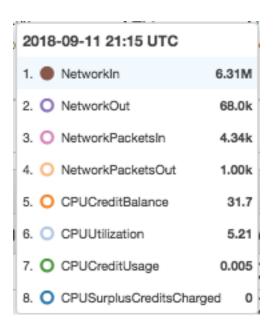
```
[ubuntu@ip-172-31-46-76:~$ sudo add-apt-repository ppa:jonathonf/python-3.6
[ubuntu@ip-172-31-46-76:~$ sudo apt-get install python3.6
[ubuntu@ip-172-31-46-76:~$ python3.6 --version
Python 3.6.5
```

13.b: Write a simple python application and launched it.

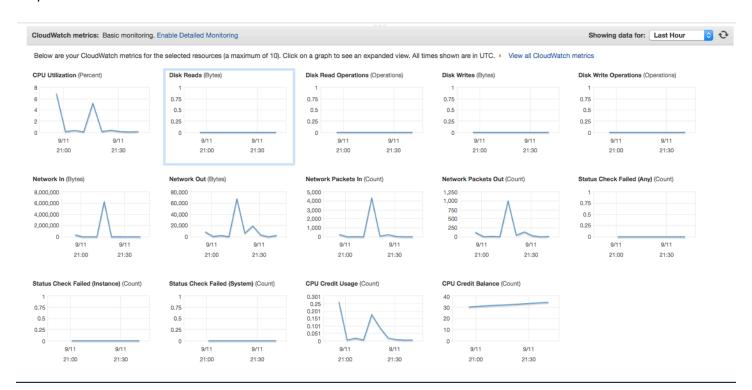
Step14: Cloudwatch metrics after launching the application.



Step15: Resource Usage.



Step16: Similar cloudwatch metrics.



Thank You.