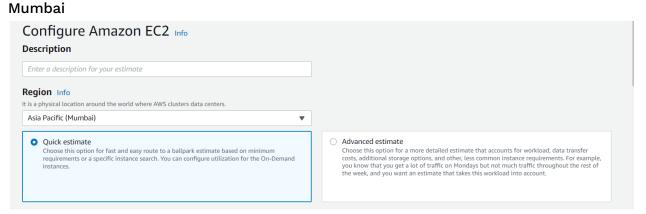
## Cloud based enterprise systems lab (15B28CI581)

# **Assignment week 4**

Patil Amit Gurusidhappa 19104004 B11

## Q1. Create AWS free tier account and perform the following tasks:

a. Select the appropriate region and zone to minimize the network latency

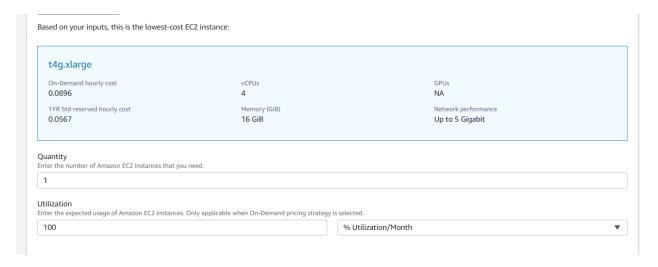


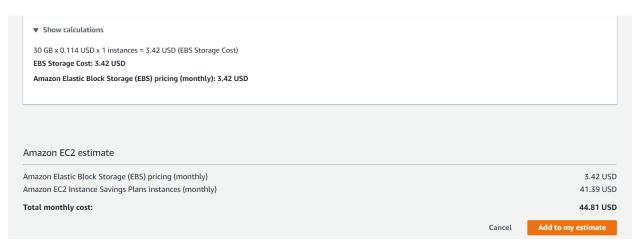
### b. Mention the cost for S3 and EC2.

### Cost for S3 machine

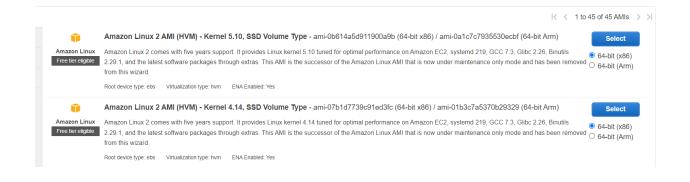
S3 Standard - General purpose storage for any type of data, typically used for frequently accessed data	
First 50 TB / Month	\$0.023 per GB
Next 450 TB / Month	\$0.022 per GB
Over 500 TB / Month	\$0.021 per GB
S3 Intelligent - Tiering* - Automatic cost savings for data with unknown or changing access patterns	
Monitoring and Automation, All Storage / Month (Objects > 128 KB)	\$0.0025 per 1,000 objects
Frequent Access Tier, First 50 TB / Month	\$0.023 per GB
Frequent Access Tier, Next 450 TB / Month	\$0.022 per GB
Frequent Access Tier, Over 500 TB / Month	\$0.021 per GB
Infrequent Access Tier, All Storage / Month	\$0.0125 per GB
Archive Instant Access Tier, All Storage / Month	\$0.004 per GB
S3 Intelligent - Tiering* - Optional asynchronous Archive Access tiers	

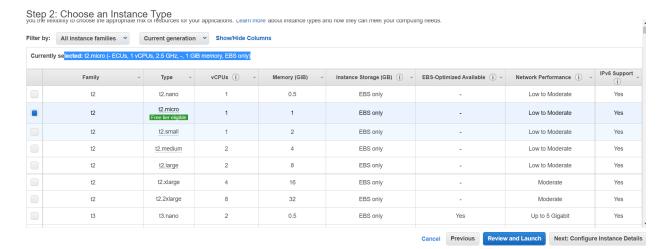
Cost for ec2 machine





### c. Find the different features available for a free tier account.





# d. Select an appropriate AWS instance and then launch an EC2 Ubuntu Linux server Instance.

Launch Status



### f. Use SSH to connect with your instance.

```
PS C:\WINDOWS\system32> ssh -i E:/Work/JIIT/sem_6/JIIT-SEM-6/CloudBasedEnterpriseSystem/Week3/cloud_lab.pem i-0cb9c9b02b
     453264b@ec2-18-224-29-86.us-east-2.compute.amazonaws.com
     The authenticity of host 'ec2-18-224-29-86.us-east-2.compute.amazonaws.com (18.224.29.86)' can't be established.
     ECDSA key fingerprint is SHA256:C2J+prAaQveK4Gr4ItnLo8G9oZXCGGUrUwfjKm+ngUE.
                                                                                                                                         is e
     Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-18-224-29-86.us-east-2.compute.amazonaws.com,18.224.29.86' (ECDSA) to the list of known -35-1 hosts.
                                                                                                                                         ce c
                                                                                                                                         d usi
                WARNING: UNPROTECTED PRIVATE KEY FILE!
                                                                                                                                         is d
      Permissions for 'E:/Work/JIIT/sem_6/JIIT-SEM-6/CloudBasedEnterprise<mark>S</mark>ystem/Week3/cloud_lab.pem' are too open.
     It is required that your private key files are NOT accessible by others.
                                                                                                                                         erna
     This private key will be ignored.

Load key "E:/Work/JIIT/sem_6/JIIT-SEM-6/CloudBasedEnterpriseSystem/Week3/cloud_lab.pem": bad permissions
                                                                                                                                         n st
i-0cb9c9b02b453264b@ec2-18-224-29-86.us-east-2.compute.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-w
mizer
ith-mic).
                                                                                                                                         the
                                                                                                                                          ro
ompurPS C:\WINDOWS\system32>
```

```
PS C:\WINDOWS\system32> "C:'Users/Amit/Downloads/cloud_lab.pem"
C:\Users/Amit/Downloads/cloud_lab.pem
PS C:\WINDOWS\system32> ssh -i "C:\Users/Amit/Downloads/cloud_lab.pem" ec2-user@ec2-18-224-29-86.us-east-2.compute.amaz onaws.com

__| __| __| __|
__| __/ Amazon Linux 2 AMI
__| __| __| Amazon Linux 2 AMI
__| __| Amazon Linux 2 AMI
__| __| Amazon Linux 2 AMI
__| Am
```

# g. Use the Ubuntu package manager to install the software packages it will need to run as a

#### web server.

```
---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be install
---> Package httpd-filesystem.noarch 0:2.4.52-1.amzn2 will be installed
---> Package httpd-tools.x86_64 0:2.4.52-1.amzn2 will be installed
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
---> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
--> Running transaction check
--> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Finished Dependency Resolution
  Dependencies Resolved
  =====
httpd
Installing for dependencies:
                                                                                                                             2.4.52-1.amzn2
                                                                               x86_64
                                                                                                                                                                                                                 amzn2-core
                                                                                                                             1.7.0-9.amzn2

1.6.1-5.amzn2.0.2

1.6.1-5.amzn2.0.2

1.6.1-5.amzn2.0.2

18.0.0-4.amzn2

2.4.52-1.amzn2

2.4.52-1.amzn2

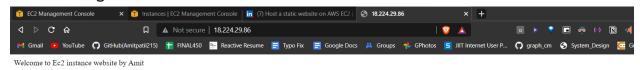
2.1.41-2.amzn2

1.15.19-1.amzn2.0.1
                                                                                                                                                                                                                                                                        122 k
99 k
19 k
19 k
24 k
88 k
31 k
                                                                              x86_64
x86_64
x86_64
  apr
apr-util
apr-util-bdb
                                                                                                                                                                                                                 amzn2-core
amzn2-core
amzn2-core
amzn2-core
  apr-util-Ddb
generic-logos-httpd
httpd-filesystem
httpd-tools
mailcap
mod_http2
                                                                               noarch
noarch
x86_64
                                                                                                                                                                                                                 amzn2-core
                                                                                x86 64
                                                                                                                                                                                                                 amzn2-core
  Transaction Summary
                                              kages)
Total download size: 1.9 M
Installed size: 5.2 M
Downloading packages:
(1/9): apr-1.7.0-9.amzn2.x86_64.rpm
                                                                                                                                                                                                                                | 122 kB 00:00:00
```

### h. Create a simple Welcome page for your site.

Created html file in /var/www/html/index.html

## Welcome Page



Website URL: <a href="http://ec2-18-224-29-86.us-east-2.compute.amazonaws.com/">http://ec2-18-224-29-86.us-east-2.compute.amazonaws.com/</a>