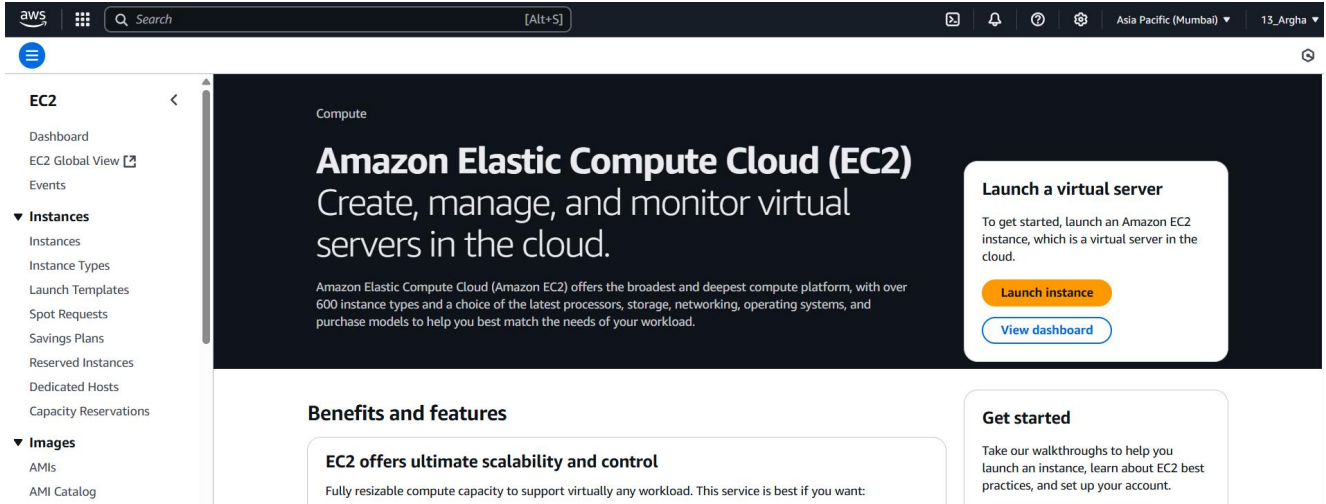# Assignment 15

Title → Create a Serverless computing service.

To create a Serverless Computing Services we have to follow some steps.

Step 1 → Login to the account first. Then at the top left corner of AWS Management Console search EC2 and click on that .click on Launch Instance.

Step 2 → Then give the name of the instance and quick start as Ubuntu and select key pairs . after that in Network settings click on Create secuirity group and check all the groups .then Launch Instance.

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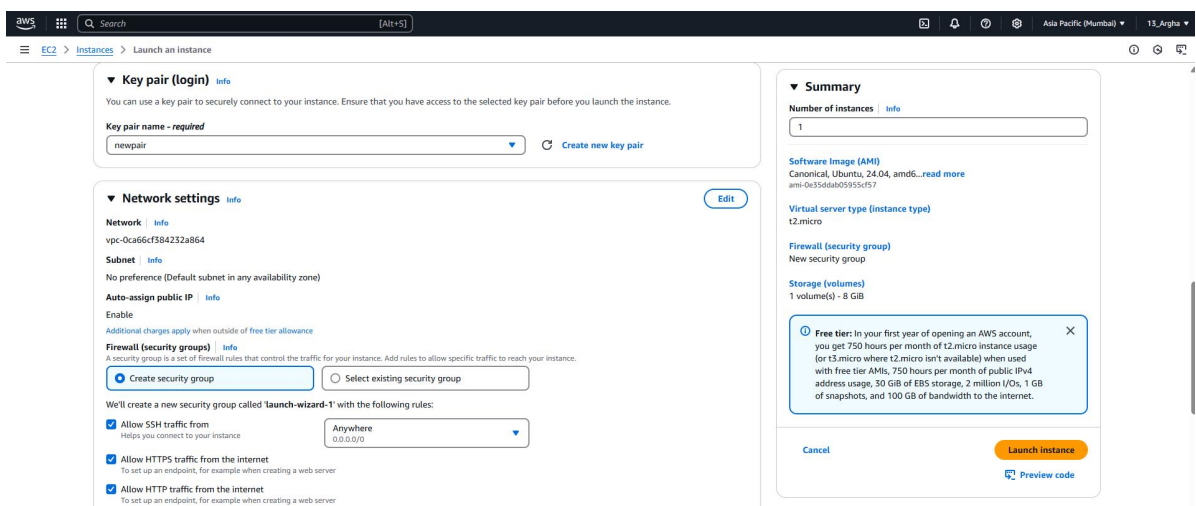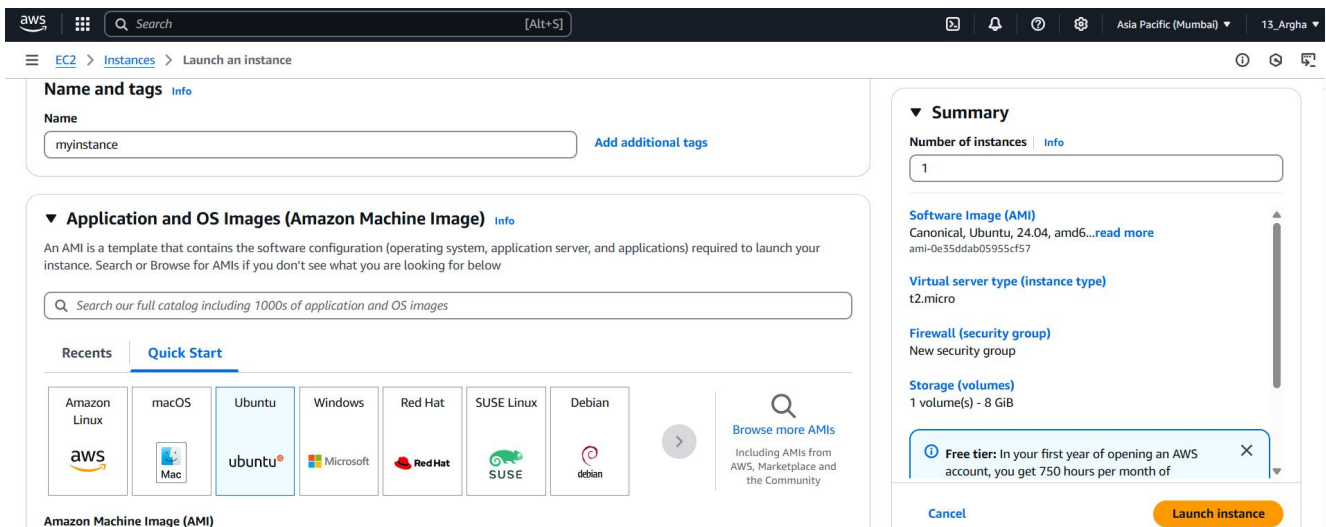
Step 3 → Then goto Bitwise Client give the host ip, username , initial method ,and client key the click on login . after that click on terminal. OR Connect the instance you created.

Step 4 → Write the commands in terminal

- Sudo apt-get update
- Sudo apt-get upgrade
- Sudo apt get install -y nginx

```
ubuntu@ip-172-31-2-138:~$ sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 https://deb.nodesource.com/node_18.x nodistro InRelease
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
```

```
ubuntu@ip-172-31-2-138:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following upgrades have been deferred due to phasing:
  python3-software-properties software-properties-common
The following packages have been kept back:
  linux-aws linux-headers-aws linux-image-aws
The following packages will be upgraded:
  apport apport-core-dump-handler cloud-init landscape-common libdw1t64 libelf1t64 libexpat1
  liblzma5 libnss-systemd libpam-systemd libplymouth5 libsystemd-shared libsystemd0 libudev1
  libxslt1.1 linux-base linux-tools-common openssh-client openssh-server openssh-sftp-server
```

```
ubuntu@ip-172-31-2-138:~$ sudo apt-get install -y nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nginx is already the newest version (1.24.0-2ubuntu7.3).
0 upgraded, 0 newly installed, 0 to remove and 5 not upgraded.
```

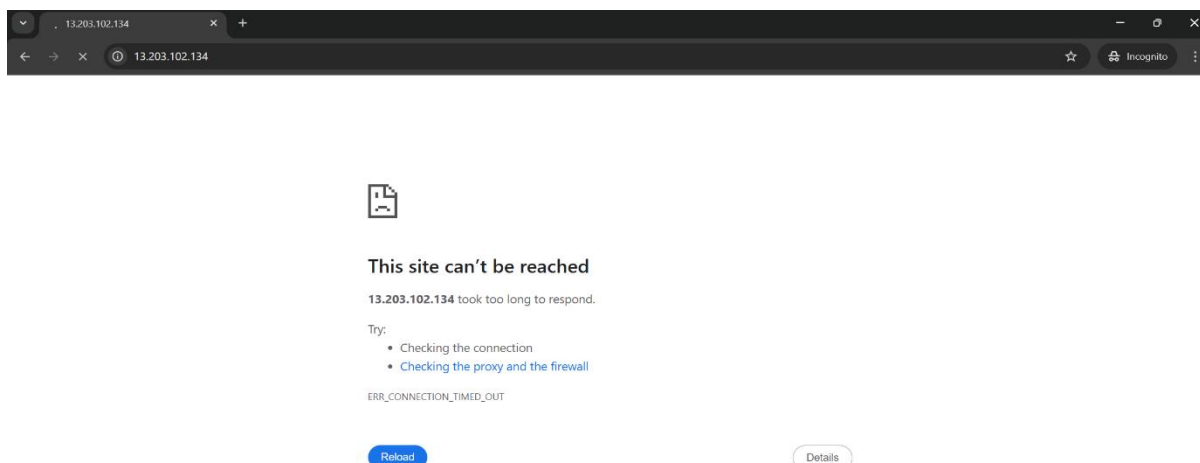Step 5 → Then goto browser and search the ip and it shows the output.

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

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Step 6 → After that stop the instance and then start it again

>>> After that you can see that page did not response.

Step 7 → Then goto Instance and in the left side click on Elastic Ips

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>>> Click on Allocate Elastic IP address and allocate.

Step 8 → Click on the ip and click on Associate Elastic ip and click on Associate.

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Associate Elastic IP address
Choose the instance or network interface to associate to this Elastic IP address (43.205.47.243)

Elastic IP address: 43.205.47.243

Resource type
Choose the type of resource with which to associate the Elastic IP address.
- ● Instance
- ○ Network interface

⚠ If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. Learn more↗

If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.

Instance
🔍 i-02cb5a9ab8cc52f2c ✕ ↻

Private IP address
The private IP address with which to associate the Elastic IP address.
🔍 Choose a private IP address

Reassociation
Specify whether the Elastic IP address can be reassociated with a different resource if it already associated with a resource.
☐ Allow this Elastic IP address to be reassociated

Cancel **Associate**

EC2 ‹

Dashboard
EC2 Global View ☑
Events
▼ **Instances**
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
▼ **Images**
AMIs
AMI Catalog
▼ **Elastic Block Store**
Volumes
Snapshots

✓ **Elastic IP address associated successfully.** ✕
Elastic IP address 43.205.47.243 has been associated with instance i-02cb5a9ab8cc52f2c

43.205.47.243
Actions ▾   **Associate Elastic IP address**

Summary

Allocated IPv4 address	**Type**	**Allocation ID**	**Reverse DNS record**
🗐 43.205.47.243	🗐 Public IP	🗐 eipalloc-013f3cde04c8056c7	–
Association ID	**Scope**	**Associated instance ID**	**Private IP address**
🗐 eipassoc-07343cb5ced2cee3e	🗐 VPC	i-02cb5a9ab8cc52f2c	🗐 172.31.4.126
Network interface ID	**Network interface owner account ID**	**Public DNS**	**NAT Gateway ID**
eni-0396cb4e51262f0b4	🗐 194722440244	🗐 ec2-43-205-47-243.ap-south-1.compute.amazonaws.com	–
Address pool	**Network border group**		
🗐 Amazon	🗐 ap-south-1		

Tags(0)
Manage tags
‹ 1 › ⚙

Key	Value

>>> Copy the ip and open in a Browser. and now after stopping and restarting the ip will remain unchanged.

⊘ Welcome to nginx! ✕ +

← → C ⚠ Not secure 13.235.1.2 ☆ ⊘ 🔒 Incognito ⋮

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

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