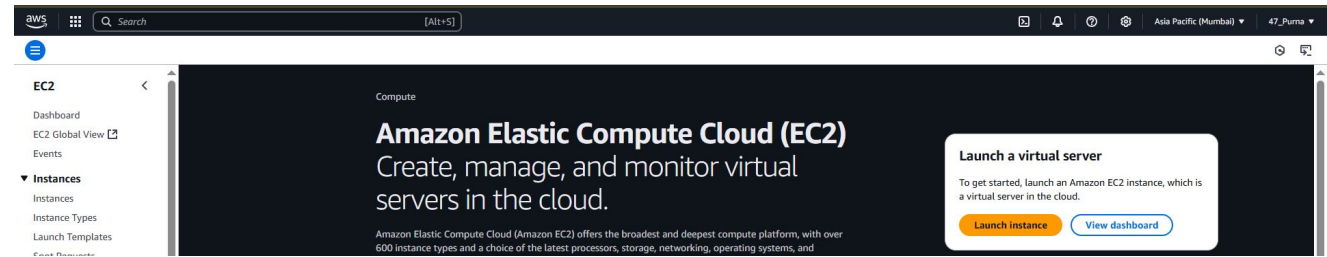
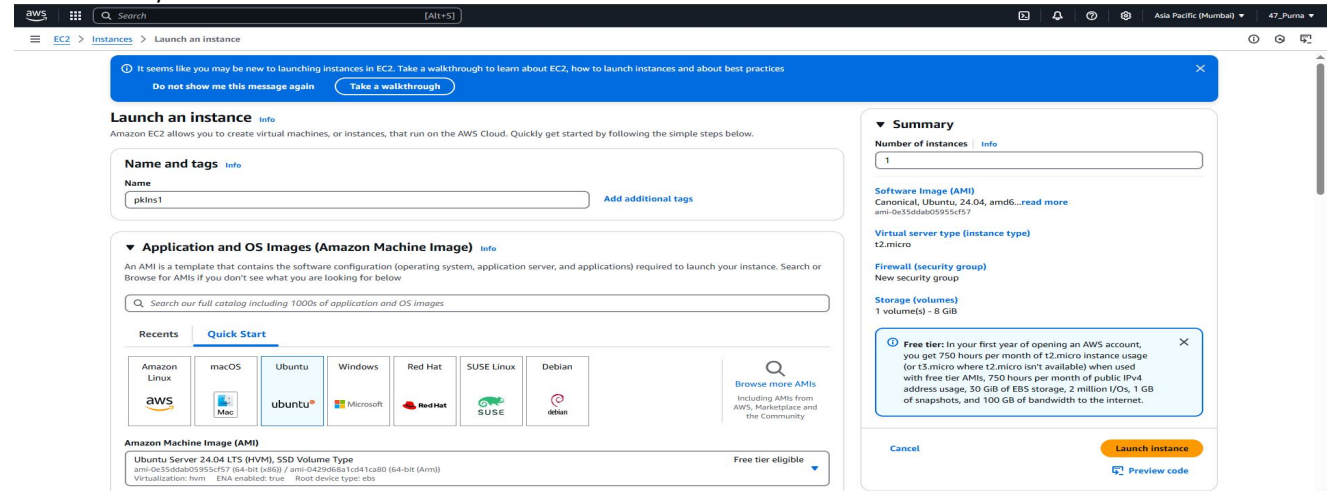


ASSIGNMENT NO :- 12: Deploy and run the project in AWS without using the port.

STEP 1 :- Go to the EC2 site and click on Launch instance.



STEP 2 :- Give your instance a name and then select Ubuntu.



STEP 3 :- Create or Select a key pair Then select Select existing security group and then choose your security group.

▼ Instance type [Info](#) | [Get advice](#)

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true On-Demand Linux base pricing: 0.0124 USD per Hour

On-Demand Windows base pricing: 0.017 USD per Hour On-Demand RHEL base pricing: 0.0268 USD per Hour

On-Demand Ubuntu Pro base pricing: 0.0142 USD per Hour On-Demand SUSE base pricing: 0.0124 USD per Hour

All generations

[Compare instance types](#)

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

key12

Create new key pair

▼ Network settings [Info](#) [Edit](#)

Network [Info](#)

vpc-0fa11c937dafb448e

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

Common security groups [Info](#)

Select security groups

purna12 sg-0e4618f5e2ba54a12 X

VPC: vpc-0fa11c937dafb448e

[Compare security group rules](#)

Security groups that you add or remove here will be added to or removed from all your network interfaces.

STEP 4 :- Then click on Advanced options and then go to User data and then Write the following commands given below in User data and click on Launch Instance in Right hand bottom of page.

>> Give your Github Repository where you have stored the index.js file

▼ Configure storage Info

Advanced

1x 8 GiB gp3 Root volume, 3000 IOPS, Not encrypted

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems

Edit

► Advanced details Info

aws

Search

[Alt+S]

EC2

Instances

Launch an instance

V2 only (token required)

For V2 requests, you must include a session token in all instance metadata requests. Applications or agents that use V1 for instance metadata access will break.

Metadata response hop limit

2

Allow tags in metadata

Select

User data - optional

Upload a file with your user data or enter it in the field.

Choose file

```
#!/bin/bash
apt-get update
apt-get upgrade
apt-get install -y nginx
systemctl start nginx
systemctl enable nginx
apt-get install -y git
curl -sL https://deb.nodesource.com/setup_18.x | sudo -E bash -
apt-get install -y nodejs
git clone https://github.com/Pu-ma/AWS_New_Purna_cseds47.git
cd AWS_New_Purna_cseds47
npm install
node index.js
```

☐ User data has already been base64 encoded

▼ Summary

Number of instances

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...read more

ami-0e35dab05955c757

Virtual server type (instance type)

t2.micro

Firewall (security group)

purna12

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

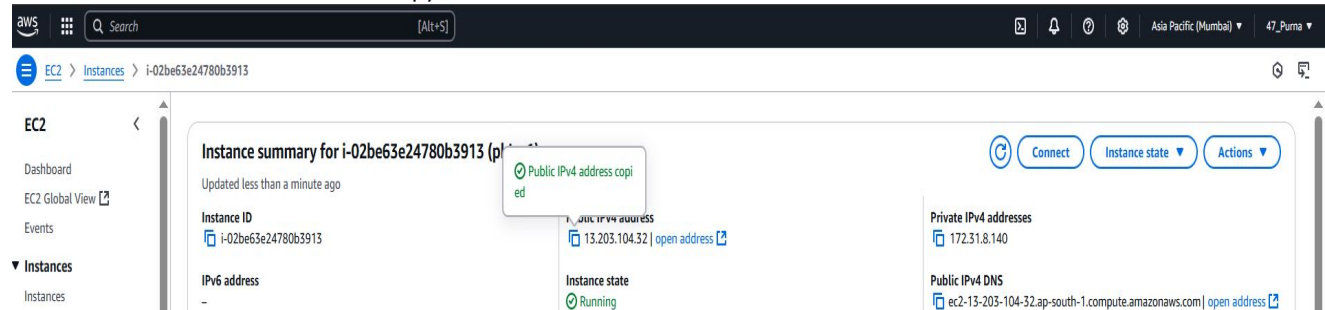
Launch instance

Preview code

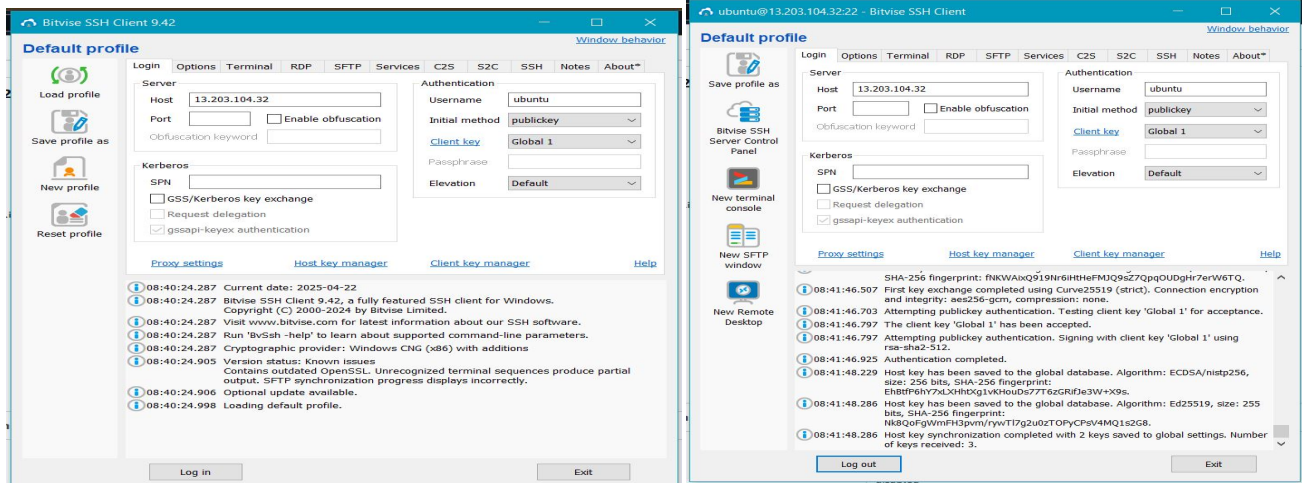
>> And your Instance is Successfully Launched.



STEP 5 :- Click on the Instance ID and copy the Public IPV4 Address.



STEP 6 :- Open the Bitwise SSH Client Server and paste the Public IPV4 Address in the Host then import your Key from Client key manager and all other features will same.



STEP 7 :- Then write the following command in the terminal :

- Go to the root terminal
- Move to folder etc
- Then move to nginx
- Then go to sites-available
- Change the mode of the default file to writable
- Edit the default file

```
ubuntu@ip-172-31-8-140:~$ cd ..
ubuntu@ip-172-31-8-140:/home$ cd ..
ubuntu@ip-172-31-8-140:/etc$ cd nginx
ubuntu@ip-172-31-8-140:/etc/nginx$ cd sites-available
ubuntu@ip-172-31-8-140:/etc/nginx/sites-available$ ls
default
ubuntu@ip-172-31-8-140:/etc/nginx/sites-available$ sudo chmod 777 default
ubuntu@ip-172-31-8-140:/etc/nginx/sites-available$ nano default
```

STEP 8 :- Then write the following code in the default file under server_name location/ and save the file :

```
GNU nano 7.2 default *
# See: https://bugs.debian.org/765782
#
# Self signed certs generated by the ssl-cert package
# Don't use them in a production server!
#
# include snippets/snakeoil.conf;

root /var/www/html;

# Add index.php to the list if you are using PHP
index index.html index.htm index.nginx-debian.html;

server_name _;

location / {
    # First attempt to serve request as file, then
    # as directory, then fall back to displaying a 404.
    #try_files $uri $uri/ =404;

    proxy_pass http://localhost:4000;
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection 'Upgrade';
    proxy_set_header Host $host;
    proxy_cache_bypass $http_upgrade;
}

# pass PHP scripts to FastCGI server
#
#location ~ \.php$ {
#    include snippets/fastcgi-php.conf
```

STEP 9 :- Then go back to the terminal and run the file as sudosystemctl restart nginx.

```
ubuntu@ip-172-31-8-140:/etc/nginx/sites-available$ sudo systemctl restart nginx
```

STEP 10:- Again copy the instance IPV4 Address and run in incognito website and you can see your Webpage.