

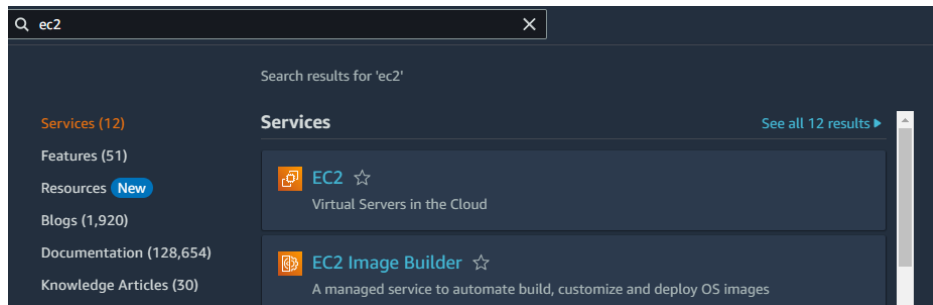
# ASSIGNMENT NO - 07

## Problem Statement: -

### Upload a Static Website in EC2 Server.

#### Steps: -

- I. Login into AWS account then go to EC2 Dashboard by Search bar. Then click on **Instance Running** option on Resource Option.

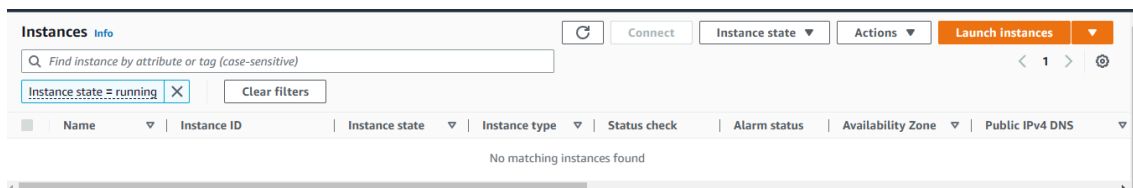


The screenshot shows the AWS Search results for 'ec2'. The left sidebar lists various categories: Services (12), Features (51), Resources (New), Blogs (1,920), Documentation (128,654), and Knowledge Articles (30). The main content area displays 'Services' with 'EC2' (Virtual Servers in the Cloud) and 'EC2 Image Builder' (A managed service to automate build, customize and deploy OS images) listed. Below this, the 'Resources' section shows a summary of EC2 resources in the US East (N. Virginia) Region. The resources are as follows:

| Resources           |   |                     |   |
|---------------------|---|---------------------|---|
| Instances (running) | 0 | Auto Scaling Groups | 0 |
| Elastic IPs         | 0 | Instances           | 0 |
| Load balancers      | 0 | Placement groups    | 0 |
| Snapshots           | 0 | Volumes             | 0 |
| Dedicated Hosts     | 0 | Key pairs           | 3 |
|                     |   | Security groups     | 6 |

At the bottom of the Resources section, there is a notification: 'Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#)'.

- II. Click on **Launch Instance** then Do the following Task:-



The screenshot shows the AWS EC2 'Instances' page. The top bar includes a search bar, a 'Connect' button, and dropdown menus for 'Instance state' and 'Actions'. The 'Launch instances' button is highlighted in orange. Below the search bar, there is a filter for 'Instance state = running' and a 'Clear filters' button. The table below shows columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. The message 'No matching instances found' is displayed at the bottom of the table.

- a) Give a Unique name.
- b) Select **Application and OS images** as **Ubuntu**.

**Name and tags** [Info](#)

Name  
nilec2 [Add additional tags](#)

▼ **Application and OS Images (Amazon Machine Image)** [Info](#)  
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

**Quick Start**

Amazon Linux macOS Ubuntu Windows Red Hat S

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type  
ami-0557a15b87f6559cf (64-bit (x86)) / ami-0f9bd9098aca2d42b (64-bit (Arm))  
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

c) Check **Instance type** as **t2.micro**.

d) Add exist Key or create new key by clicking on **Create new key pair**.

▼ **Instance type** [Info](#)

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory  
On-Demand Windows pricing: 0.0162 USD per Hour  
On-Demand SUSE pricing: 0.0116 USD per Hour  
On-Demand RHEL pricing: 0.0716 USD per Hour  
On-Demand Linux pricing: 0.0116 USD per Hour

[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*

nilkeypair [Create new key pair](#)

e) Click on Check box of **Allow SSH traffic from, Allow HTTPS traffic from the internet, Allow HTTP traffic from the internet**

**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

We'll create a new security group called 'launch-wizard-6' with the following rules:

☒ Allow SSH traffic from  
Helps you connect to your instance Anywhere 0.0.0.0/0

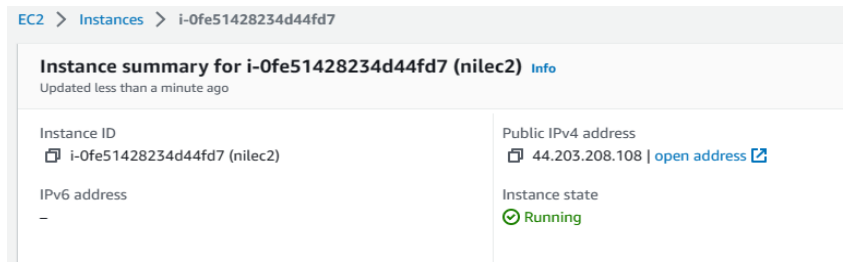
☒ Allow HTTPS traffic from the internet  
To set up an endpoint, for example when creating a web server

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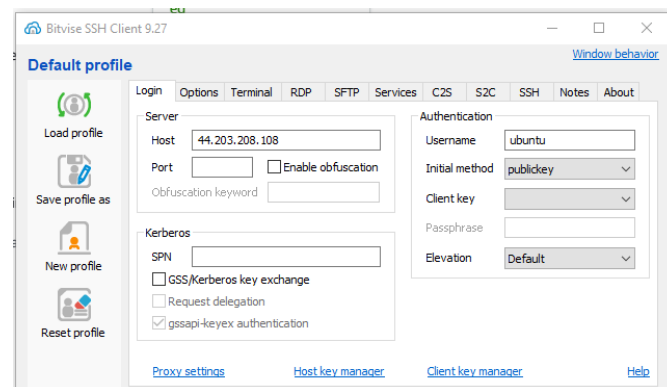
⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only. ✕

f) At last, Click on **Launch instance**.

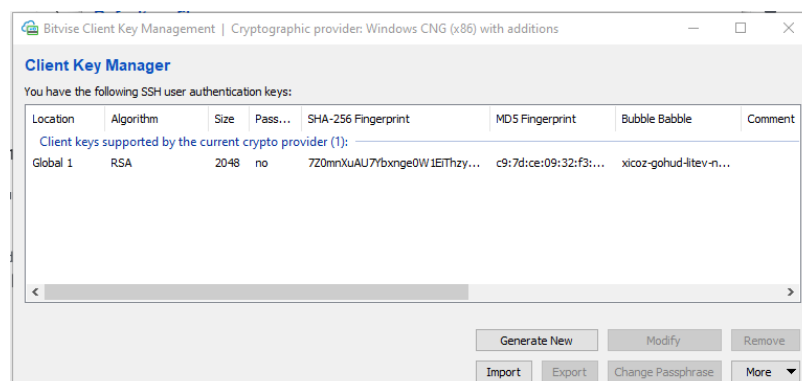
- III. Now wait until the instance status show **Running** , then click on the instance and Copy the **Public IPv4 Address** and



paste it in **Server Host** option in the **Bitvise SSH Client** application.



- IV. Then make Username as **ubuntu**, Initial Method as **publickey** and Elevation as **Default** in Authentication option in the **Bitvise SSH Client** application.
- V. Now Click on **Client Key Manager**, then Click on **Import** option to import the downloaded Keypair from the client device, then select that key in **Client Key** in Authentication option and Run the application.



- VI. Then Click on the **New terminal Console** and type **sudo apt-get update && sudo apt-get upgrade** and enter.


```
ubuntu@ip-172-31-1-148:~$ sudo apt-get update && sudo apt-get upgrade
```

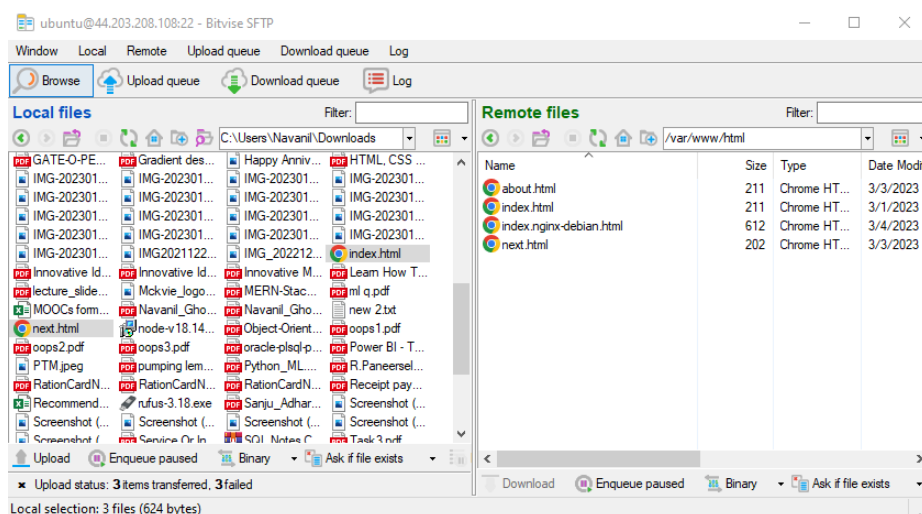
VII. Now type **sudo apt-get install nginx** and enter.

```
ubuntu@ip-172-31-1-148:~$ sudo apt-get install nginx
```

VIII. Now type **CD \** and enter, then type **cd var/www/** and type **sudo chmod 777 html** to give all permission to Html files.

```
ubuntu@ip-172-31-1-148:~$ cd /
ubuntu@ip-172-31-1-148:/ $ pwd
/
ubuntu@ip-172-31-1-148:/ $ cd var/www/
ubuntu@ip-172-31-1-148:/var/www$ pwd
/var/www
ubuntu@ip-172-31-1-148:/var/www$ ls
html
ubuntu@ip-172-31-1-148:/var/www$ sudo chmod 777 html
ubuntu@ip-172-31-1-148:/var/www$
```

IX. Now Click on **New SFTP window**, then click on  in **Remote files** to go back to Root then go to **/var/www/html** address and copy the .html files from Local files and paste on it.



x. Now paste the Public IPv4 address of Instance on the new type to see the Webpage.

