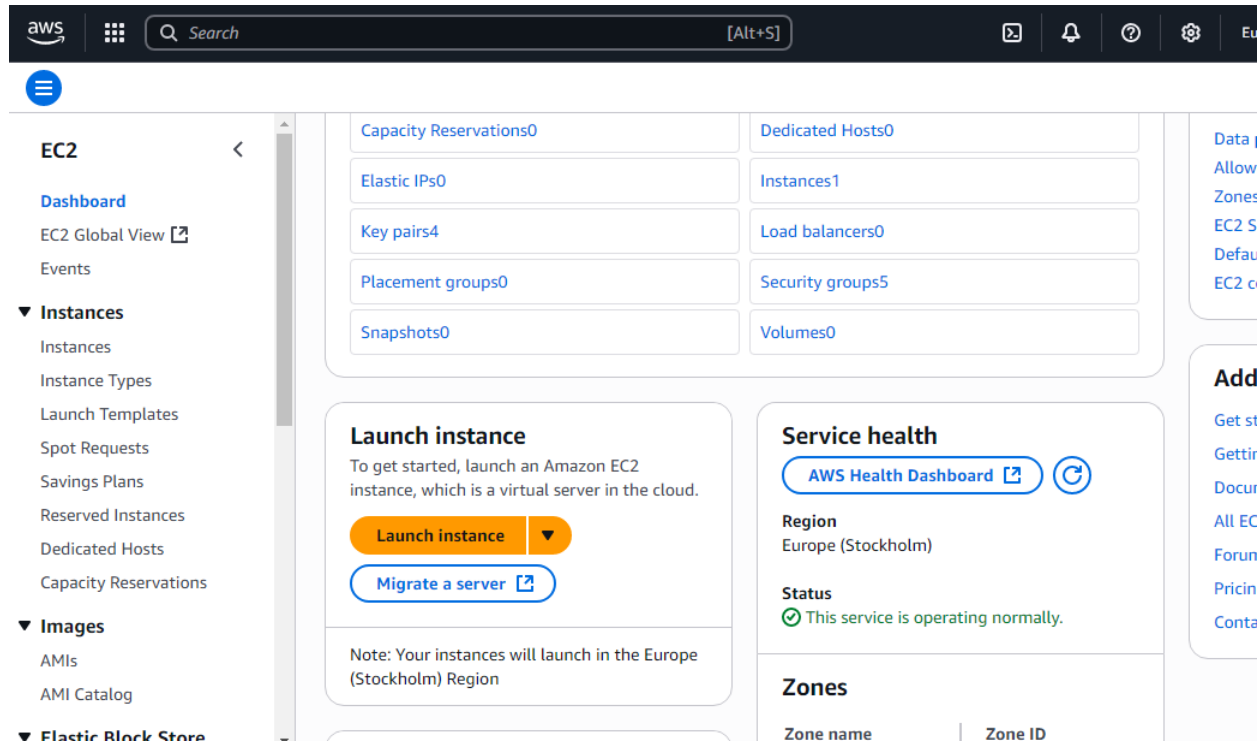


2. Create EC2 instance and deploy dynamic web application using the created EC2 as web server.

1. Launch an instance



Type EC2 in search box, Click on EC2 , Later EC2 page will open as shown above Click on Launch instance

2. Name and tags

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name

[Add additional tags](#)

Under Name and tags give any Name like web server

3. Under Application and OS images

▼ Application and OS Images (Amazon Machine Image) [Info](#)


An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose **Browse more AMIs**.

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


Recents

Quick Start


Amazon Linux




macOS




Ubuntu




Windows




Red Hat




SUSE Linux



De





Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 kernel-6.1 AMI
ami-0c4fc5dcabc9df21d (64-bit (x86), uefi-preferred) / ami-07ca8bbd22d87429f (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs

select Amazon Linux AWS

4. Under Instant type

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

Instance type

t3.micro

Family: t3 2 vCPU 1 GiB Memory Current generation: true

On-Demand Ubuntu Pro base pricing: 0.0143 USD per Hour

On-Demand RHEL base pricing: 0.0396 USD per Hour

On-Demand SUSE base pricing: 0.0108 USD per Hour

On-Demand Linux base pricing: 0.0108 USD per Hour

On-Demand Windows base pricing: 0.02 USD per Hour

Free tier eligible

☐ All generations

[Compare instance types](#)

[Additional costs apply for AMIs with pre-installed software](#)

select t3.micro

5. Under Key Pair

click on create new key Pair

give name to key Pair like my key pair

The screenshot shows the 'Create key pair' dialog box. It has a title bar with a close button (X). The main content area is divided into sections: 'Key pair name' with a text input field containing 'kyp' and a note about character limits; 'Key pair type' with two radio button options: 'RSA' (selected) and 'ED25519'; 'Private key file format' with two radio button options: '.pem' (selected) and '.ppk'. At the bottom, there is a yellow warning box with an icon and text about storing the private key. Below the warning box are two buttons: 'Cancel' and 'Create key pair'.

Create key pair

Key pair name
Key pairs allow you to connect to your instance securely.
kyp
The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ **RSA**
RSA encrypted private and public key pair

☐ **ED25519**
ED25519 encrypted private and public key pair

Private key file format

☒ **.pem**
For use with OpenSSH

☐ **.ppk**
For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn](#)

[Cancel](#) [Create key pair](#)

and click on create key pair ,kyp.pm file will be downloaded.

In network settings :

The screenshot shows the 'Network settings' section of the AWS Management Console. It includes a dropdown for 'Network' with a value 'vpc-0e6c049a73374b56d', a 'Subnet' dropdown set to 'No preference', and an 'Auto-assign public IP' toggle set to 'Enable'. Below these is a 'Firewall (security groups)' section with a 'Create security group' button selected. A summary line states: 'We'll create a new security group called 'launch-wizard-5' with the following rules:'. Three rules are listed with checkboxes: 'Allow SSH traffic from Anywhere', 'Allow HTTPS traffic from the internet', and 'Allow HTTP traffic from the internet'.

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

Network | [Info](#)
vpc-0e6c049a73374b56d

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

We'll create a new security group called 'launch-wizard-5' 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

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

make sure allow SSH traffic from is enabled, and enable by clicking the check box of allow HTTPS traffic from internet and check box of allow HTTP traffic from internet

In Configure Storage

▼ **Configure storage** [Info](#) Advanced

1x GiB ▼ 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

keep as it is

In Advanced details

EC2 > Instances > Launch an instance

▼ **Configure storage** [Info](#) Advanced

1x GiB ▼ 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

ⓘ 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](#)

▼ **Summary**

Number of instances [Info](#)

Software Image (AMI)

Amazon Linux 2023 AMI 2023.8.2...[read more](#)

ami-0c4fc5dcabc9df21d

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

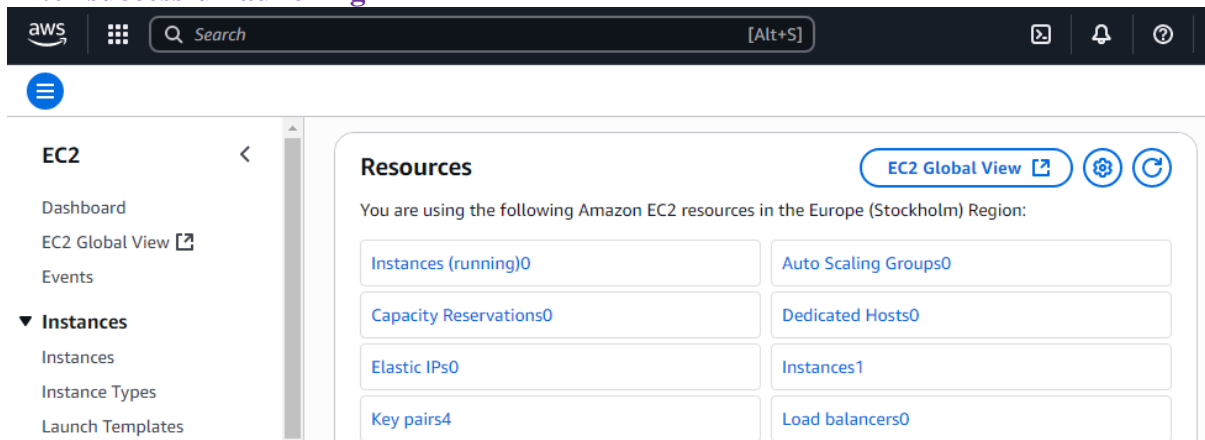
1 volume(s) - 8 GiB

Cancel Launch instance

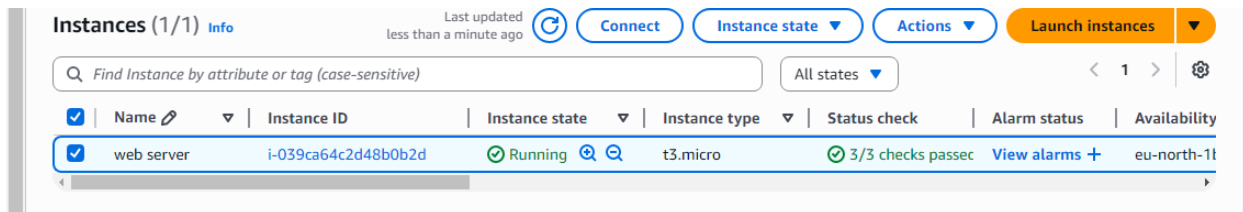
[Preview code](#)

Keep Advanced details as it is .
Again click on Launch Instance

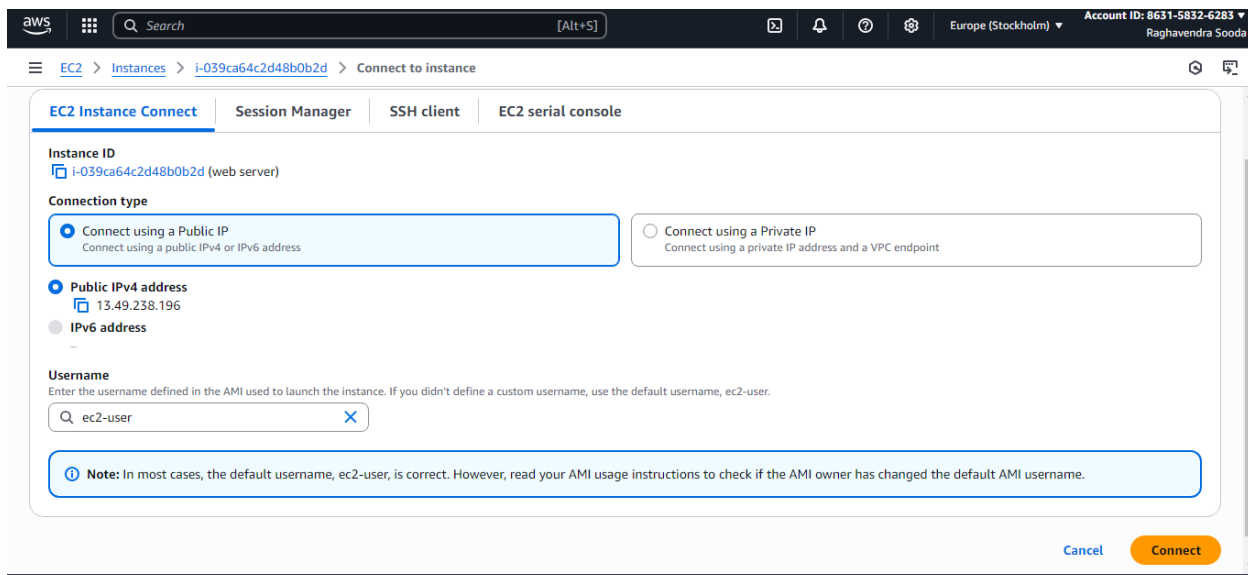
After successful launching



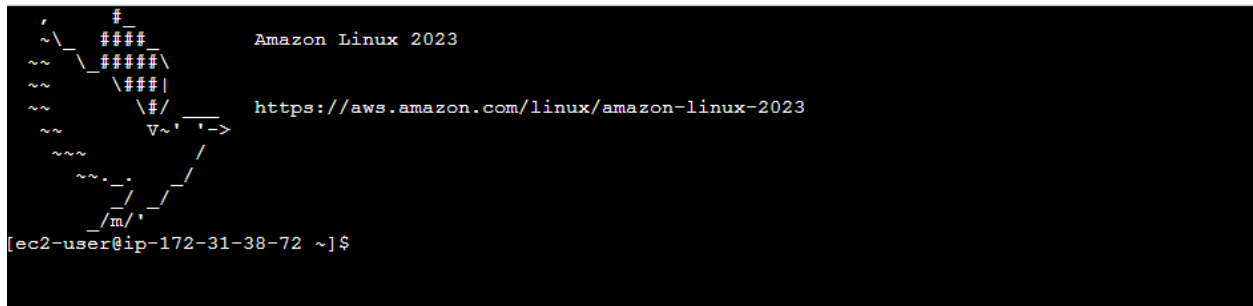
Click on Instances



Select the check box of newly selected instance named web- server click on connect button



Under Connect select EC2 Instance Connect method and then press connect button.



Type following steps

```
sudo su - ;root user
yum update -y :update
yum install -y httpd ; install httpd server
mkdir temp
cd temp
wget https://templatemo.com/download/templatemo\_596\_electric\_xtra ;download website
template files
ls -lrt
mkdir templatemo_596_electric_xtra_unzipped
unzip templatemo_596_electric_xtra -d templatemo_596_electric_xtra_unzipped
cd templatemo_596_electric_xtra_unzipped
ls -lrt
cd templatemo_596_electric_xtra
ls -lrt
mv * /var/www/html/ copy the extracte file /var/www/html
cd /var/www/html/
ls -lrt
systemctl status httpd ; to check the status of httpd
systemctl enable httpd ;enable the httpd server
systemctl start httpd ; start the httpd server
```

click on the instances

The screenshot shows the AWS Management Console interface. On the left, the navigation menu includes EC2, Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, and Elastic Block Store. The main content area displays the 'Instances (1/1)' page. At the top, there are buttons for 'Connect', 'Instance state', 'Actions', and 'Launch instances'. Below these is a search bar and a table with columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability. The instance 'i-039ca64c2d48b0b2d (web server)' is selected. Below the table, the 'Details' tab is active, showing the 'Instance summary' with the following information:

Instance ID	Public IPv4 address	Private IPv4 addresses
i-039ca64c2d48b0b2d	13.49.238.196 open address	172.31.38.72

Additional details shown include the Instance state (Running) and Public DNS.

copy the public ipv4 address 13.49.238.1969 (in my case) go to browser window paste the copied public ip of the instance.

web page will open as shown below

The screenshot shows the Electric XTRA website. The header includes the Electric XTRA logo and navigation links: HOME, FEATURES, ABOUT, and CONTACT. The main content area features the text 'BEYOND LIMITS' and 'Where technology meets infinite possibilities'. At the bottom, there are two buttons: 'GET STARTED' and 'LEARN MORE'.