

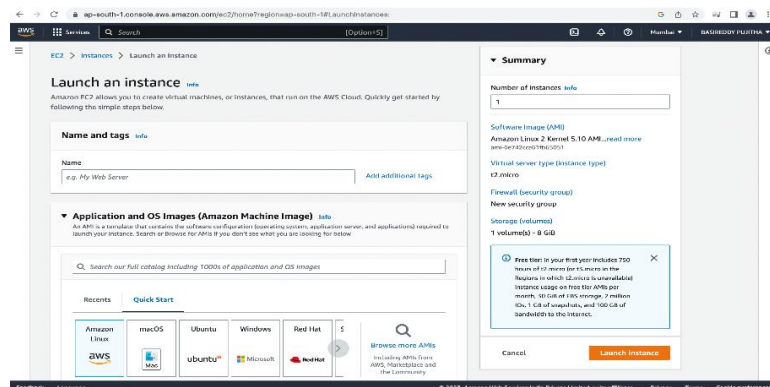
1.CREATE EC2 INSTANCE AND HOST ANY STATIC WEBSITE :-

- What is EC2?

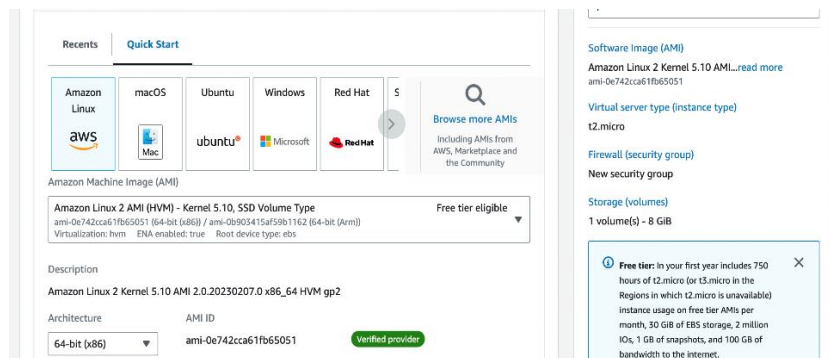
An Amazon EC2 instance is a virtual server that runs applications on the Amazon Web Services architecture. EC2 is a service that enables to run application programs in the computing environment. It is designed to make web-scale cloud computing easier for developers.

STEP-1: Creating an instance

- In the AWS management console on the services menu click on EC2
- Click Launch instance > Launch instance

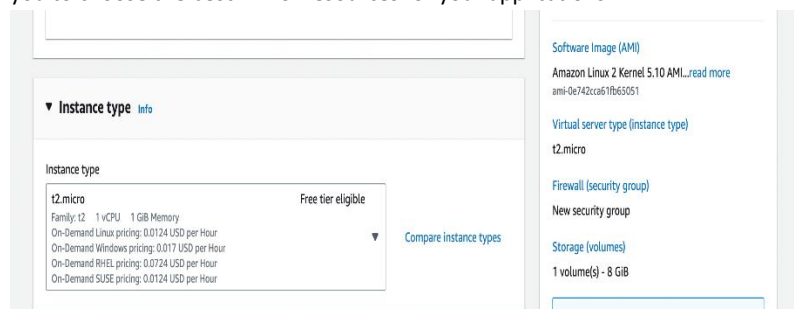


- Click on the Amazon Linux 2 AMI



STEP-2: Choosing an Instance type

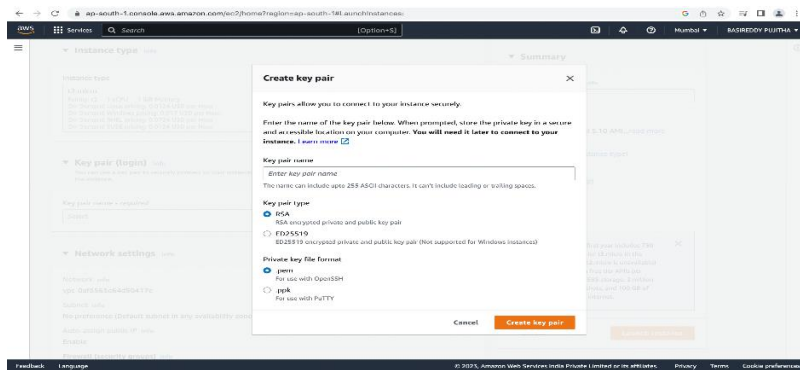
- Instance types are different combinations of CPU, memory, storage, and networking capacity that allow you to choose the best mix of resources for your applications.



STEP-3: Configure Instance details

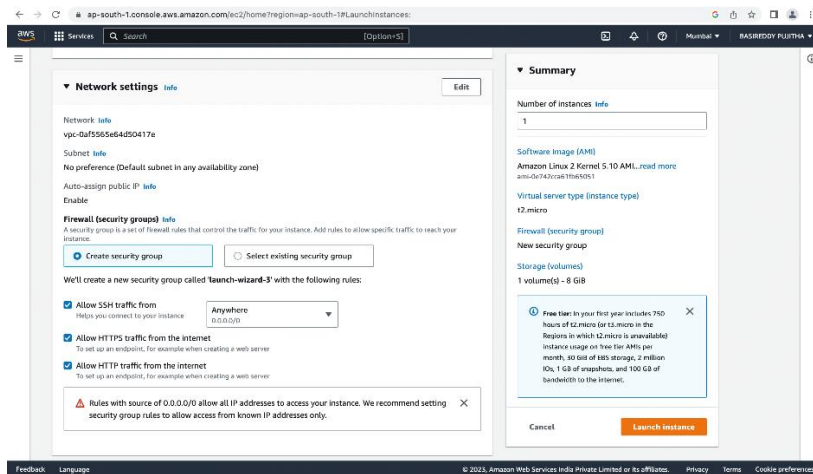
- This page is used to customise the instance to your needs. This includes networking and monitoring configuration. For the now with the default settings, so click Next: Add Storage.

STEP-4: Creating a new key pair



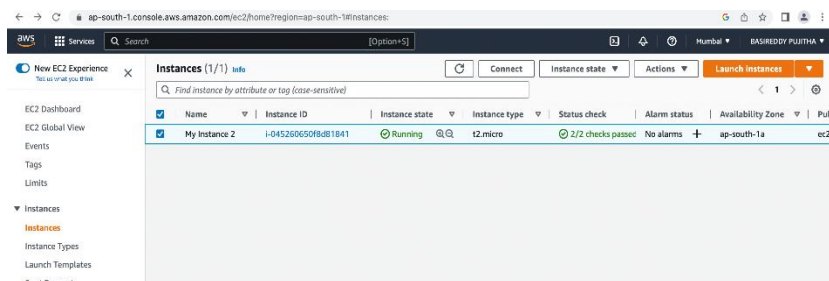
- Click on Create a new pair and give a name say **Instance 1** to it.
- Now it will automatically download after creating the key pair.

STEP-5: Configure Security group and launch the instances



STEP-6: Add Storage

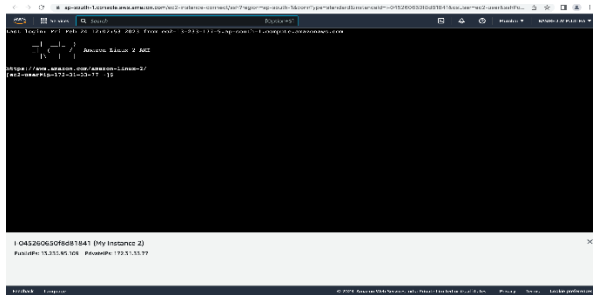
- Amazon EC2 stores data on a network-attached virtual disk called Elastic Block Store. You will launch the Amazon EC2 instance using a default 8 GiB disk volume. This will be your root volume.
- Scroll Down and select **Launch**
- Navigate to instances and wait for some time for the instance



STEP-7: Connecting to the instance

- The time has come to connect now that your instance is up and running

- We have several options for connecting to an instance, I used amazon console method because it is more convenient for me. Go to the folder where you saved the "Instance 1.pem" file
- when you connect successfully, you will see something like this



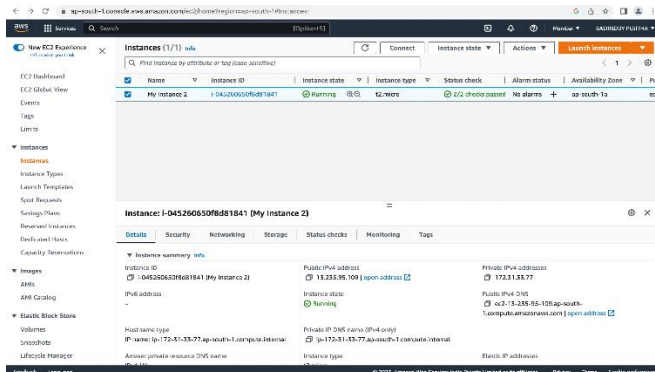
- Now I have connected to instance

STEP-8: Installing the web server

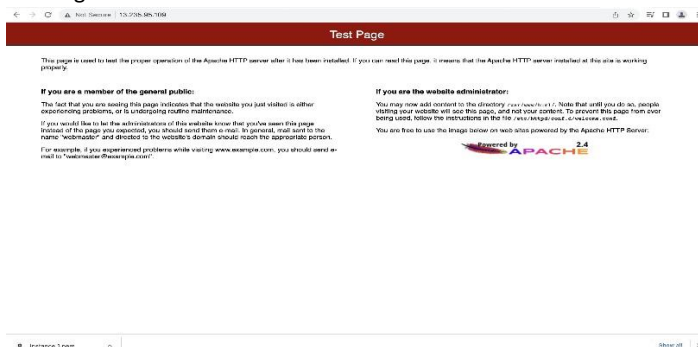
- Mention the permissions
Sudo su
- Update packages on instance
yum update -y
- Installing Apache web server
yum install httpd -y
- Starting web server
service httpd start

STEP-9: Check if the server is working

- Go to instance from the Amazon console now. Select the newly created instance by clicking on it. The instance public IPv4 address can be found below.

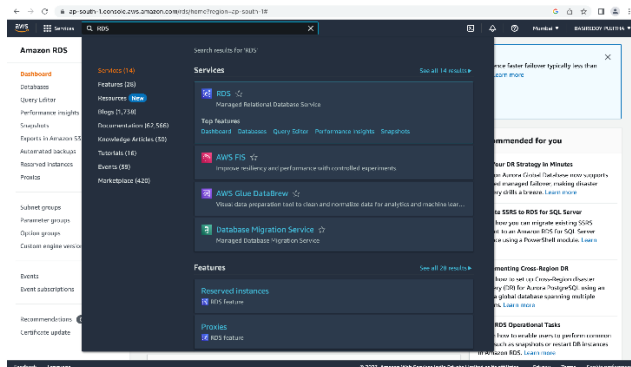


- The Public IPv4 address should be copied and pasted into a new browser tab so we can get to know whether it is working or not.



2.CREATE AND CONNECT TO SQL SERVER DATABASE USING AMAZON RDS

STEP-1: Open the AWS Management console in a new browser window in the console, enter RDS in the search bar and select RDS from the search results.



STEP-2: Create a SQL Server DB instance

- In this step, we will use Amazon RDS to create a SQL Server DB instance with instance class, storage, and automated backups enabled. In the top right corner of the Amazon RDS console, select the Region in which you want to create the DB instance.
- In the Create database section, choose Create database.
- You now have options to select your engine. choose the SQL Server icon. In the Edition, select SQL Server Express Edition. Leave the values for License and Version.
- You will now configure your DB instance. Enter the configuration settings DB instance identifier, Master username, Master password, Confirm password.
- Now configure instance specifications like DB instance class, Storage type, allocated storage, option group, enable storage autoscaling
- Now that you are in the Connections area, you can give Amazon RDS the data it needs to start the SQL Server DB instance.

Connectivity:

Network type: Keep the default IPv4.

Virtual Private Cloud (VPC): Select Default VPC

Subnet group: Choose the default subnet group.

Public access: Choose Yes.

VPC security groups: Select Create new VPC security group.

New VPC security group name: enter myrdstask1

Availability zone: Choose No preference

- In the Additional configurations section add database options, backup, performance insights, Maintenance, Deletion protection
- Choose the Create database button to create your database. Your instance is now created. Choose view your DB instances. When the state changes to available, you can connect to a database on the DB instance.

STEP-3: Connect to the SQL Server database

You can connect to a database on the DB instance using any common SQL client that after database instance creation is complete and the status switches to available. The popular SQL Server client, SQL Server Management Studio, will be installed in this step.

After installing a box has the host name, username, password after giving them, click on the **connect**

Now currently linked to the database. You can view different schema objects that are present in the database in SQL Server make tables, add data, and execute queries.

STEP-4: Created and connected to SQL Server database instance with RDS

3. REGISTER DOMAIN NAME WITH AMAZON ROUTE 53

- Having Access the AWS Administration console by signing in Look up and launch ROUTE 53
- If it's new to you If you are already using, select registered domains from the navigation get started option.
- Click on Register domain, after entering the chosen domain name in the Name box, click the checkbox to verify if it is accessible.
- Click add to cart if the domain name is available. If the domain is accessible, select "add to cart."
- Choose the number of years you want to keep the domain in the shopping cart
- To continue Scroll down at the bottom of the page
- Enter the contact information for the domain registrant, administrator, and technical contacts on the page for your n domains contact data.
- Privacy protection: Whether you wish to hide your contact is up to you.
- Choose whether you want to automatically renew your domain registration before the expiration date. review the information that you entered
- After reading the terms and conditions, check the box to indicate that you have done so, and then click the "Complete Purchase" button.
- They will send the email to registrant for the domain to verify
- When your domain registration is approved, we'll get other mail.