Creating AWS Ubuntu Instance

1. Access the AWS Website:
- Go to the Amazon Web Services home page.

2. Initiate Account Creation:
- Click on "Create an AWS account".
- If you recently signed in, you might need to click "Sign in to the Console" and then "Create a new AWS account".
- If "Create a new AWS account" is not visible, first choose "Sign in to a different account" and then "Create a new AWS account".

3. Enter Account Information:
- **Root User Email Address:**Enter your email address.
- **AWS Account Name:**Choose a name for your account.
- **Verify Email Address:**Click "Verify email address" to send a verification code to your email.
- Enter the verification code from the email.

4. Set up Account Details:
- **Root User Password:**Create and confirm a password for your root user.
- **Account Type:**Choose "Personal" or "Business".
- **Contact Information:**Fill in your contact details.
- **Accept Terms and Conditions:**Agree to the AWS Terms and Conditions.

5. Add Payment Method:
- **Billing Information:**Enter your payment method details: debit card and billing address.
- **Verify and Add:**Verify and add your payment method.

6. Verify Phone Number:
- **Select Contact Method:**Choose how you'd like to receive a verification code (e.g., SMS).
- **Enter Phone Number:**Enter your phone number and country/region code.
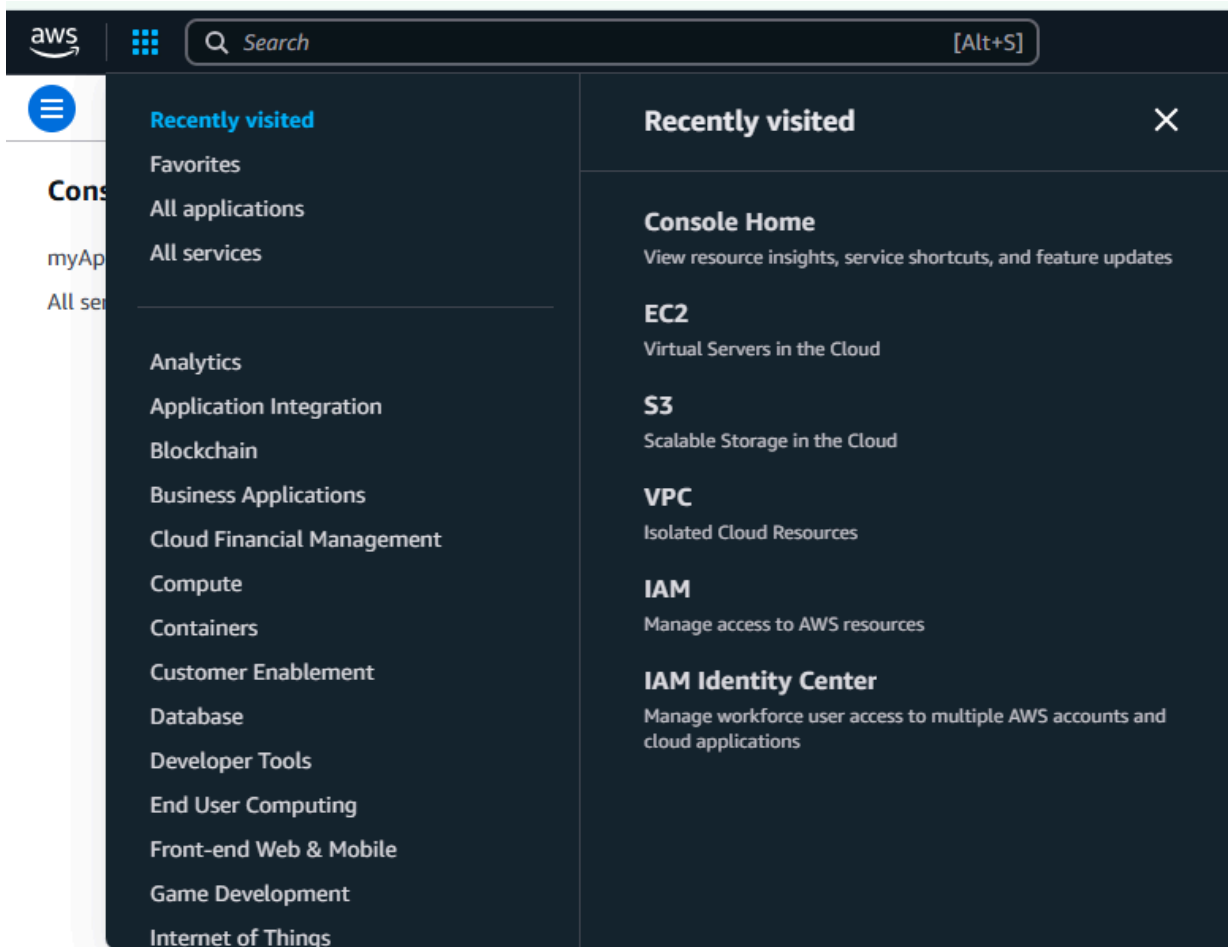- **Verify:**Enter the verification code sent to your phone number.

7. Choose a Support Plan:
- **Select a Support Plan:**Choose an AWS Support plan Basic.

After successful Account creation you will be able to see below console Screen.
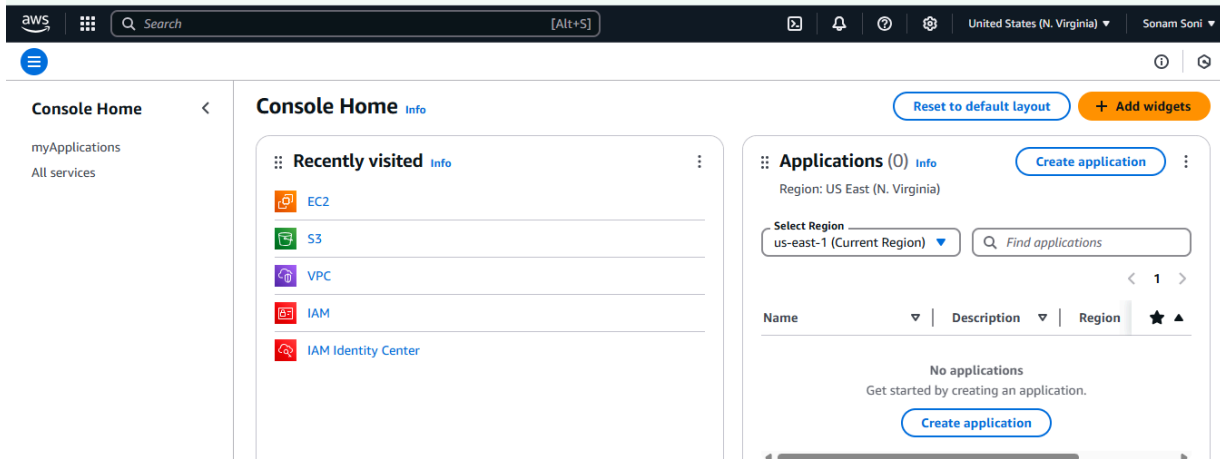
you can click on top icon for checking services:

you can search for ec2 and click on the same.

you can see ec2 dashboard as mentioned below.

Click on Launch Instance.

Select Ubuntu for API

▼ 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

Recents   **Quick Start**

Amazon Linux	macOS	Ubuntu	Windows	Red Hat	SUSE Linux	Debian		Browse more AMIs
aws	Mac	ubuntu	☐ Microsoft	Red Hat	SUSE	debian	＞	Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type	Free tier eligible
ami-084568db4383264d4 (64-bit (x86)) / ami-0c4e709339fa8521a (64-bit (Arm)) Virtualization: hvm ENA enabled: true Root device type: ebs	▼

Description

Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).

Canonical, Ubuntu, 24.04, amd64 noble image

Instance type keep as it is: t2.micro

▼ 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*

| Select   ▼ | ↻ **Create new key pair** |

---

click on create new pair

Create key pair

Key pair name

Key pairs allow you to connect to your instance securely.

mysecretkey

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 more ↗

Cancel   **Create key pair**

create key pair.
Keep below network setting as it is.

▼ Network settings Info

Edit

Network | Info

vpc-00cac9736fe83a9ff

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-1**' with the following rules:

☑ **Allow SSH traffic from**
Helps you connect to your instance

Anywhere ▼
0.0.0.0/0

Anywhere

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

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To set up an endpoint, for example when creating a web server

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

▼ 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

keep below Storage as it is.

verify summary and click on launch Instance.

▼ Summary

Number of instances | Info

```
1
```

Firewall (security group)
New security group

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**

⟳ **Launching instance**
Creating security group rules
━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 33%

▶ Details

Please wait while we launch your instance.
Do not close your browser while this is loading.

☰   EC2 > Instances > Launch an instance

⊘ **Success**
Successfully initiated launch of instance (i-0b12bd357a7fbbbf4)

▶ **Launch log**

click on instance Id

Instances (1) Info

Last updated less than a minute ago

Connect   Instance state ▼

Find Instance by attribute or tag (case-sensitive)

All states ▼

Instance ID = i-0b12bd357a7fbbbf4 ✕

Clear filters

	Name ✎ ▽	Instance ID	Instance state ▽	Instance type ▽	Status check	Alarm
☐	sonamvm	i-0b12bd357a7fbbbf4	⊘ Running ⊕ ⊖	t2.micro	⏱ Initializing	...

Check the instance status once it is running. You can click on instance ID.

Instance summary for i-0b12bd357a7fbbbf4 (sonamvm) Info

Updated less than a minute ago

Connect

Instance ID
⬚ i-0b12bd357a7fbbbf4

Public IPv4 address
⬚ 54.236.19.99 | open address ↗

Private IPv4 add
⬚ 172.31.19.1

IPv6 address
–

Instance state
⊘ Running

Public IPv4 DNS
⬚ ec2-54-236-
open address ↗

Hostname type
IP name: ip-172-31-19-171.ec2.internal

Private IP DNS name (IPv4 only)
⬚ ip-172-31-19-171.ec2.internal

Click on connect.

Click on EC2 instance connect tab.

Connect to instance Info
Connect to your instance i-0b12bd357a7fbbbf4 (sonamvm) using any of these options

| EC2 Instance Connect | Session Manager | SSH client | EC2 serial console |

Instance ID
⬚ i-0b12bd357a7fbbbf4 (sonamvm)

Connection Type

◉ Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 address.

○ Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

◉ **Public IPv4 address**
⬚ 54.236.19.99
○ **IPv6 address**
–

Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

🔍 ubuntu ✕

ⓘ **Note:** In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel   Connect

click on connect button visible in the right bottom corner.
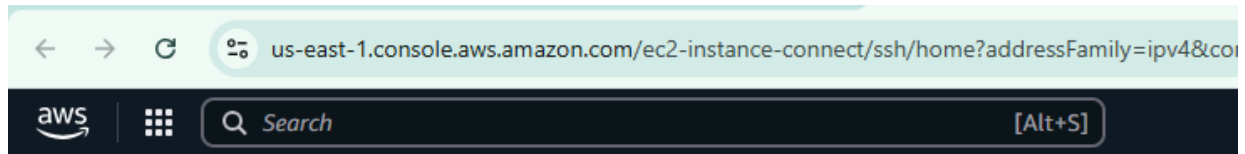
```
Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status


The list of available updates is more than a week old.
To check for new updates run: sudo apt update


The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-19-171:~$
```

This is your Linux terminal where you can run all your Linux commands.
Like below mentioned.

```
ubuntu@ip-172-31-19-171:~$ sudo adduser sonam
info: Adding user `sonam' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `sonam' (1001) ...
info: Adding new user `sonam' (1001) with group `sonam (1001)' ...
info: Creating home directory `/home/sonam' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for sonam
Enter the new value, or press ENTER for the default
        Full Name []: Sonam Soni
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] Y
info: Adding new user `sonam' to supplemental / extra groups `users' ...
info: Adding user `sonam' to group `users' ...
ubuntu@ip-172-31-19-171:~$
```

Once your learning completed then terminate your instance.

It will be removed from dashboard after sometime.