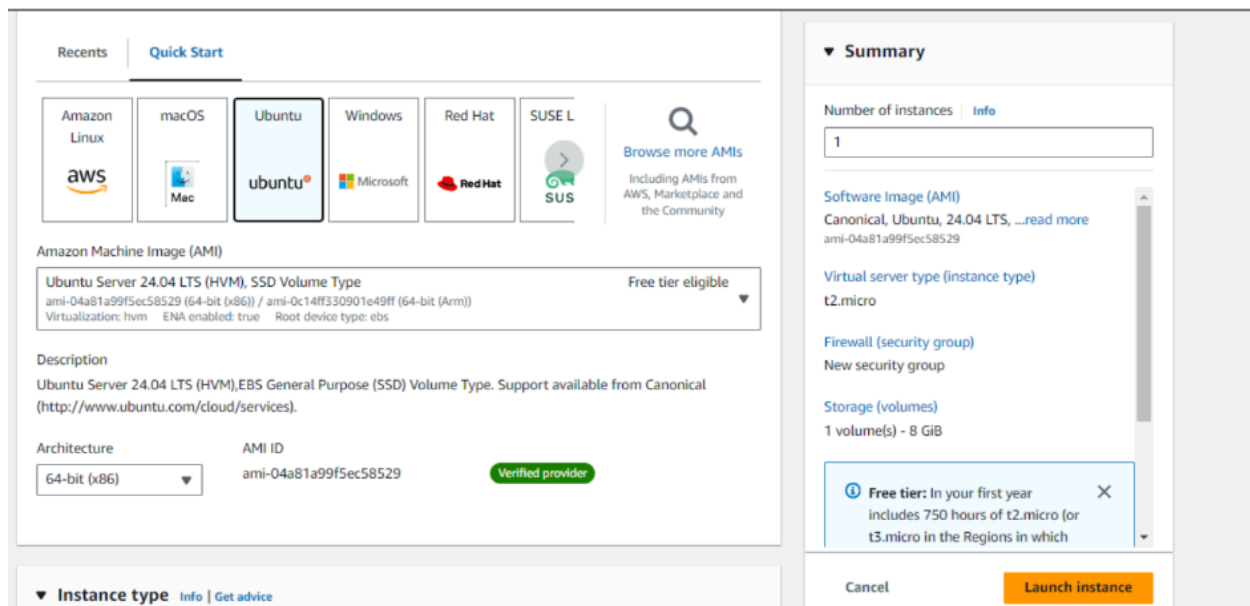
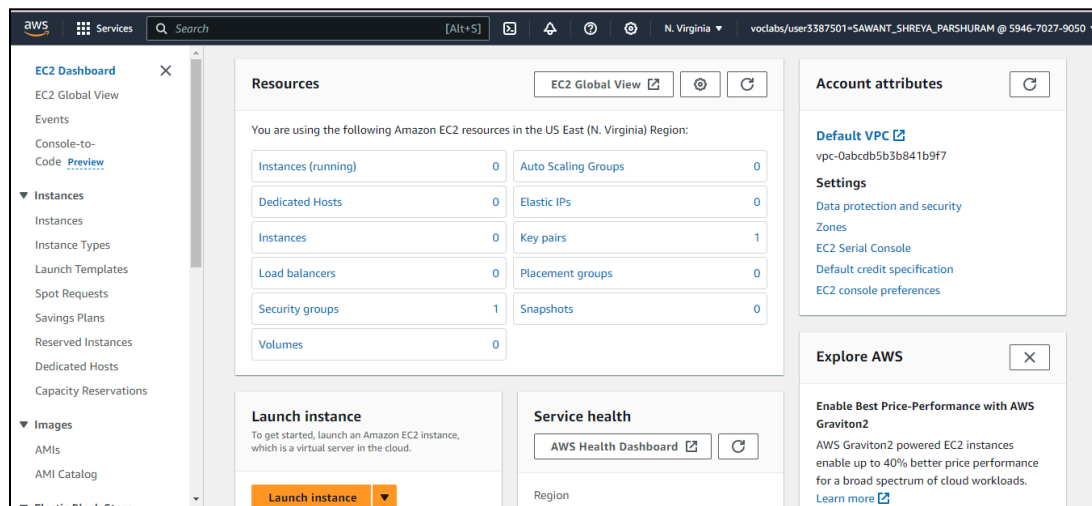


Experiment.1

Aim: To understand the benefits of Cloud Infrastructure and Setup AWS Cloud9 IDE, Launch AWS Cloud9 IDE and Perform Collaboration Demonstration.



▼ Network settings Info

Edit

Network Info

vpc-0abfdb5b3b841b9f7

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

☐ Allow HTTPS traffic from the internet

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

▼ Summary

Number of instances Info

1

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

▼ Configure storage Info

Advanced

1x 8 GiB gp3 Root volume (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

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EC2 > Instances > Launch an instance

Success
Successfully initiated launch of instance (i-0c5c8c0f74e8cffdd)

► Launch log

Next Steps

Q What would you like to do next with this instance, for example "create alarm" or "create backup"

< 1 2 3 4 5 6 >

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

Create billing alerts

Connect to your instance

Once your instance is running, log into it from your local computer.

Connect to instance

[Learn more](#)

Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

Connect an RDS database

[Create a new RDS database](#)

Create EBS snapshot policy

Create a policy that automates the creation, retention, and deletion of EBS snapshots

Create EBS snapshot policy

EC2 Dashboard

EC2 Global View

Events

Console-to-Code

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

▼ Images

AMIs

AMI Catalog

Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Instance ID = i-0c5c8c0f74e8cffdd

Clear filters

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>		i-0c5c8c0f74e8cffdd	Running	t2.micro	Initializing	View alarms	us-east-1d

Select an instance

```
aws Services Search [Alt+S] N. Virginia voclabs/user3387501-SAWANT_SHREYA_PARSHURAM @ 5946-7027-90

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-172-31-9-108:~$ echo hello
hello
ubuntu@ip-172-31-9-108:~$
```

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Instances (1/1) Info

Refresh

Connect

Instance state ▾

Actions ▾

Launch instances ▾

Find Instance by attribute or tag (case-sensitive)

All states ▾

Instance ID = i-0c5c8c0f74e8cffdd ✕

Clear filters

< 1 > ⚙

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability
<input checked="" type="checkbox"/>		i-0c5c8c0f74e8cffdd	Running	t2.micro	Initializing	View alarms +	us-east-1d

i-0c5c8c0f74e8cffdd

Root device name
 /dev/sda1

Root device type
EBS

EBS optimization
disabled

▼ Block devices

Filter block devices

<input checked="" type="checkbox"/>	Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted
<input checked="" type="checkbox"/>	vol-0fd1f9298d126ba86	/dev/sda1	8	Attached	2024/07/23 15:14 GMT+5:30	No

```
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-172-31-9-188:~$ echo hello
hello
ubuntu@ip-172-31-9-188:~$ cat> myfile
HELLO!!!
ubuntu@ip-172-31-9-188:~$ cat myfile
HELLO!!!
ubuntu@ip-172-31-9-188:~$
```

```
ubuntu@ip-172-31-9-188:~$ cat myfile
HELLO!!!
ubuntu@ip-172-31-9-188:~$ mkdir
mkdir: missing operand
Try 'mkdir --help' for more information.
ubuntu@ip-172-31-9-188:~$ mkdir myfile
mkdir: cannot create directory 'myfile': File exists
ubuntu@ip-172-31-9-188:~$ mkdir file
ubuntu@ip-172-31-9-188:~$ ls
file  myfile
ubuntu@ip-172-31-9-188:~$ mkdir>file
-bash: file: Is a directory
ubuntu@ip-172-31-9-188:~$
```

```
Last login: Tue Jul 30 08:30:11 2024 from 18.206.107.27
ubuntu@ip-172-31-9-188:~$ sudo su
root@ip-172-31-9-188:/home/ubuntu# apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.58-1ubuntu8.4).
0 upgraded, 0 newly installed, 0 to remove and 26 not upgraded.
root@ip-172-31-9-188:/home/ubuntu# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Tue 2024-07-30 08:58:14 UTC; 12min ago
     Docs: https://httpd.apache.org/docs/2.4/
    Main PID: 2975 (apache2)
      Tasks: 55 (limit: 1130)
     Memory: 5.3M (peak: 5.5M)
        CPU: 73ms
    CGroup: /system.slice/apache2.service
            └─2975 /usr/sbin/apache2 -k start
            └─2978 /usr/sbin/apache2 -k start
```

```
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
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    CGroup: /system.slice/apache2.service
            └─2975 /usr/sbin/apache2 -k start
            └─2978 /usr/sbin/apache2 -k start
            └─2979 /usr/sbin/apache2 -k start

Jul 30 08:58:14 ip-172-31-9-188 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Jul 30 08:58:14 ip-172-31-9-188 systemd[1]: Started apache2.service - The Apache HTTP Server.
root@ip-172-31-9-188:/home/ubuntu# cd /var/www/html/
root@ip-172-31-9-188:/var/www/html#
```

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Hello Shreya!!!