Aim: Exp 1 To understand the benefits of Cloud Infrastructure and Setup AWS Cloud9 IDE, Launch AWS Cloud9 IDE and Perform Collaboration Demonstration.
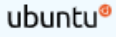
Code and Output :

Quick Start

Amazon Linux	macOS	Ubuntu	Windows	Red Hat	SUSE Li
aws	Mac	ubuntu®	Microsoft	Red Hat	SUS

Q **Browse more AMIs**
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-04a81a99f5ec58529 (64-bit (x86)) / ami-0c14ff330901e49ff (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).

Architecture   AMI ID

64-bit (x86) ▼   ami-04a81a99f5ec58529   Verified provider

▼ Instance type   Info | Get advice

Instance type

t2.micro	Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true	
On-Demand Windows base pricing: 0.0162 USD per Hour	
On-Demand SUSE base pricing: 0.0116 USD per Hour	
On-Demand RHEL base pricing: 0.026 USD per Hour	
On-Demand Linux base pricing: 0.0116 USD per Hour	▼

⬤— All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ Network settings   Info   Edit

Network | Info

vpc-06c996635e2aef808

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

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

▼ 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

——--

> ⊘ **Success**
> Successfully initiated launch of instance (i-01fe3a23a4a6d901c)

▶ Launch log

Instances (1/1) Info   ↻ | Connect | | Instance state ▼ | | Actions ▼ | **Launch instances** ▼

🔍 Find Instance by attribute or tag (case-sensitive) | All states ▼ |

| Instance ID = i-0afa557e0e5b49a50 ✕ | | Clear filters | < 1 > ⚙

☑	Name ✎ ▽	Instance ID	Instance state ▽	Instance type ▽	Status check	Alarm status	Availabili
☑	Siddhant's Ser...	i-0afa557e0e5b49a50	⊘ Running ⊕ ⊖	t2.micro	🕑 Initializing	View alarms ＋	us-east-1l

Instance summary for i-0afa557e0e5b49a50 (Siddhant's Server) Info

[↻] | Connect | Instance state ▼ | Actions ▼

Updated less than a minute ago

Instance ID
⎘ i-0afa557e0e5b49a50 (Siddhant's Server)

Public IPv4 address
⎘ 34.200.231.88 | open address ↗

Private IPv4 addresses
⎘ 172.31.7.177

IPv6 address
–

Instance state
⊘ Running

Public IPv4 DNS
⎘
ec2-34-200-231-88.compute-1.amazonaws.com |
open address ↗

Hostname type
IP name: ip-172-31-7-177.ec2.internal

Private IP DNS name (IPv4 only)
⎘ ip-172-31-7-177.ec2.internal

Answer private resource DNS name
IPv4 (A)

Instance type
t2.micro

Elastic IP addresses
–

Auto-assigned IP address
⎘ 34.200.231.88 [Public IP]

VPC ID
⎘ vpc-06c996635e2aef808 ↗

AWS Compute Optimizer finding
ⓘ Opt-in to AWS Compute Optimizer for recom
mendations.
| Learn more ↗

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aws | ⠿ Services | Q Search | [Alt+S] | ⊡ | ⌂ | ? | ⚙ | N. Virginia ▼ | voclabs/user3387498=SATHE_SIDDHANT_SANJAY @ 1929-0520-1551 ▼

```
Swap usage:    0%

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-172-31-7-177:~$
```

i-0afa557e0e5b49a50 (Siddhant's Server)   ✕

PublicIPs: 34.200.231.88   PrivateIPs: 172.31.7.177

Apache2 Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at /var/www/html/index.html) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|       `--  ports.conf
|-- mods-enabled
|       |-- *.load
|       `-- *.conf
|-- conf-enabled
|       `-- *.conf
|-- sites-enabled
|       `-- *.conf
```

Not secure | 13.51.159.117/index2.html

Siddhant's first Deployment