

DAY 7 TASK

To Publish One website

Create Ubuntu EC2 Instance.



Launch a new instance,
And name them

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

Adity_Ubuntu_instance [Add additional tags](#)

Create key pair ✕

Key pair name
Key pairs allow you to connect to your instance securely.

Adity-activity

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

EC2 > Instances > Launch an instance

Recents **Quick Start**

Amazon Linux macOS **Ubuntu** Windows Red Hat SUSE Linux

aws Mac ubuntu Microsoft Red Hat SUSE

[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-00c257e12d6828491 (64-bit (x86)) / ami-0acefc55c3a331fa8 (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

Choose Ubuntu.

Connect with Instance.

Instance summary for i-072e5b9796fb9a4f4 (Adity_Ubuntu_instance) [Info](#)

[Connect](#) [Instance state](#) [Actions](#)

Updated less than a minute ago

Instance ID i-072e5b9796fb9a4f4	Public IPv4 address 44.243.19.21 open address	Private IPv4 addresses 172.31.23.89
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-44-243-19-21.us-west-2.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-23-89.us-west-2.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-23-89.us-west-2.compute.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding No recommendations available for this instance.
Auto-assigned IP address 44.243.19.21 [Public IP]	VPC ID vpc-0431e75dbe7bb26ed	

[EC2 Instance Connect](#) [Session Manager](#) [SSH client](#) [EC2 serial console](#)

Instance ID
[i-072e5b9796fb9a4f4](#) (Adity_Ubuntu_instance)

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
[44.243.19.21](#)

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.

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](#)

- Install Apache:
- `sudo apt update -y`
- `sudo apt install apache2 -y`
- `sudo systemctl start apache2`
- `sudo systemctl enable apache2`
- Once it's started, you can check your public IP with default Apache Server Page.

```
Get:36 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:37 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:38 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [118 kB]
Get:39 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8960 B]
Get:40 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [803 kB]
Get:41 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [171 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.0 kB]
Get:43 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:44 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [625 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [121 kB]
Get:46 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [12.4 kB]
Get:48 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2940 B]
Get:49 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:50 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 B]
Fetched 32.3 MB in 11s (3005 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
98 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-23-89:~$ sudo apt install apache2 -y
```

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

```
ubuntu@ip-172-31-23-89:~$ sudo systemctl start apache2
```

```
ubuntu@ip-172-31-23-89:~$ sudo systemctl enable apache2
```

Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.

```
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
```

```
ubuntu@ip-172-31-23-89:~$
```



Apache2 Default Page

Ubuntu

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
```

For Cloning repo install git:

- sudo apt install git -y
- Move to the default Http folder:
- cd /var/www/html
- sudo git clone https://github.com/your-username/your-repo.git
- Move the contents of the repo to /var/www/html:
- sudo mv your-repo/* .
- sudo rm -rf your-repo
- Set Permissions:
- sudo chmod -R 755 /var/www/html
- sudo chown -R www-data:www-data /var/www/html
- Restart Server:
- sudo systemctl restart apache2
- Access Website:
- http://your-ec2-public-ip

```
ubuntu@ip-172-31-20-29:~$ apache2 -v
Server version: Apache/2.4.58 (Ubuntu)
Server built: 2024-10-02T12:40:51
ubuntu@ip-172-31-20-29:~$ cd /var/www/html
ubuntu@ip-172-31-20-29:/var/www/html$ sudo git clone https://github.com/sonam-niit/PhoneBookProject.git
Cloning into 'PhoneBookProject'...
remote: Enumerating objects: 16, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 16 (delta 0), reused 0 (delta 0), pack-reused 15 (from 1)
Receiving objects: 100% (16/16), done.
Resolving deltas: 100% (4/4), done.
ubuntu@ip-172-31-20-29:/var/www/html$ sudo mv PhoneBookProject/
mv: missing destination file operand after 'PhoneBookProject/'
Try 'mv --help' for more information.
ubuntu@ip-172-31-20-29:/var/www/html$ sudo mv PhoneBookProject/* .
ubuntu@ip-172-31-20-29:/var/www/html$ sudo rm -rf PhoneBookProject/
ubuntu@ip-172-31-20-29:/var/www/html$ sudo chmod -R 755 /var/www/html
ubuntu@ip-172-31-20-29:/var/www/html$ sudo chown -R www-data:www-data /var/www/html
ubuntu@ip-172-31-20-29:/var/www/html$ sudo systemctl restart apache2
sudo: systemctl: command not found
ubuntu@ip-172-31-20-29:/var/www/html$ sudo systemctl restart apache2
ubuntu@ip-172-31-20-29:/var/www/html$
```

PhoneBook

Id	Name	Number	Operations
----	------	--------	------------

Add Contact

Save Contact

View/Update

Update Contact