

## Experiment No. 1A

### Static Hosting

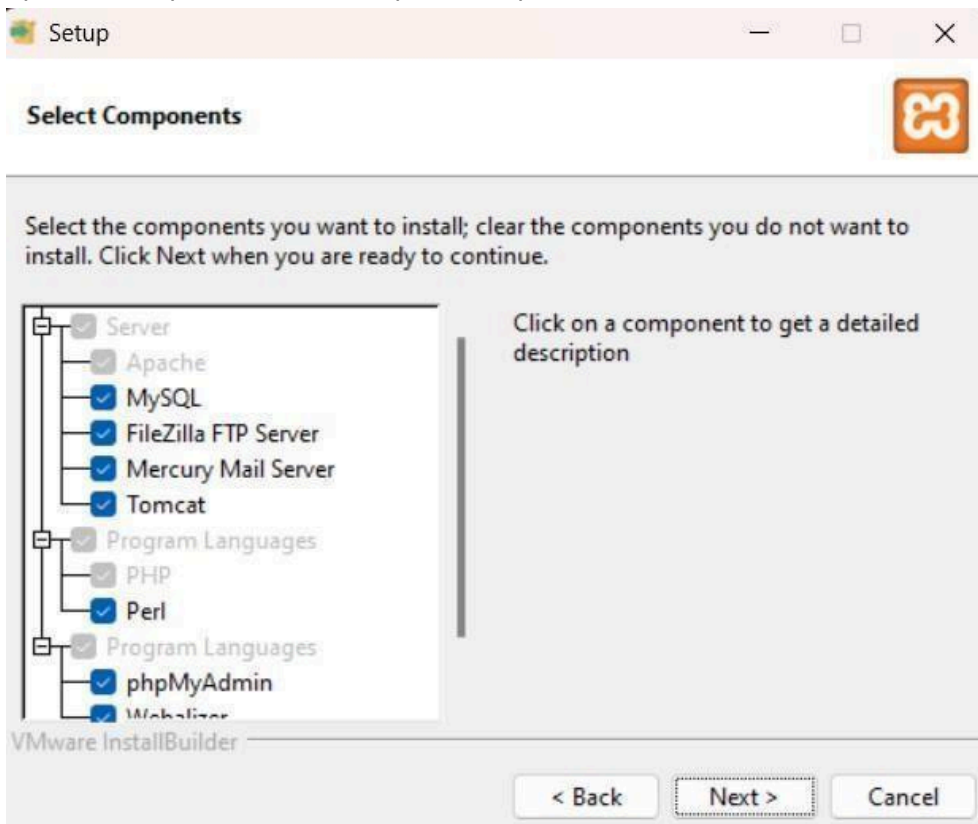
#### On local server (XAMPP)

Step 1: Install XAMPP from <https://www.apachefriends.org/>

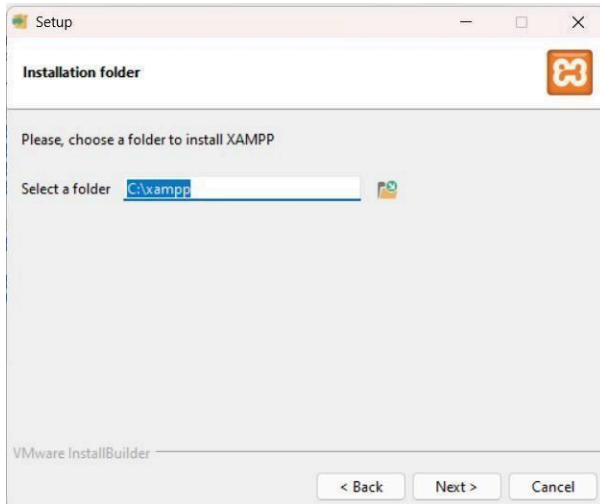
- 1) Pick your OS, and the download will start automatically.



- 2) Open the setup file, select the required components, and click 'Next'.



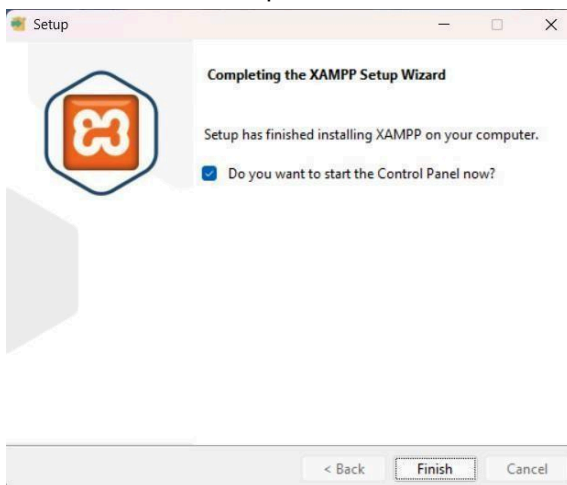
- 3) Choose an empty folder for XAMPP installation and click 'Next'.



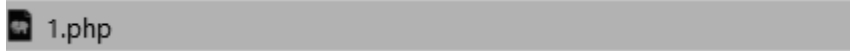
- 4) Select the language, click next. XAMPP starts to install



- 5) The installation is complete; click 'Finish'.



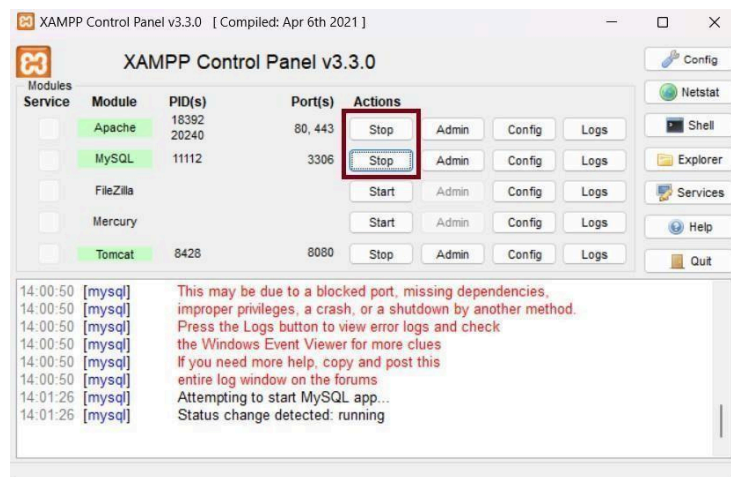
**Step 2: Create a file to be hosted on the server, ensuring it has a `.php` extension.**



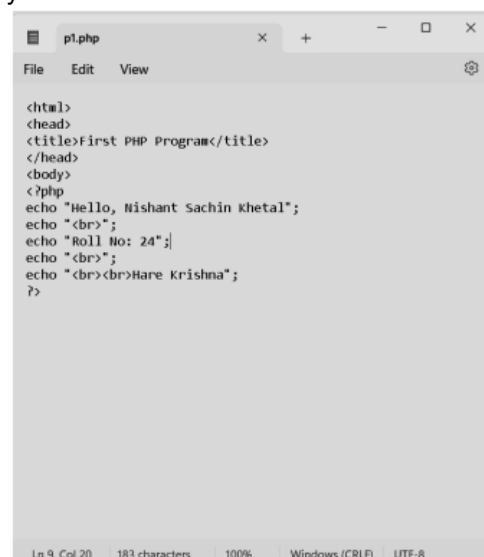
**Step 3: Navigate to the directory where XAMPP is installed and open the `htdocs` folder. Place your project folder within this directory.**

Name	Date modified	Type	Size
dashboard	06-08-2024 20:42	File folder	
img	06-08-2024 20:42	File folder	
webalizer	06-08-2024 20:42	File folder	
xampp	06-08-2024 22:44	File folder	
applications	15-06-2022 21:37	Chrome HTML Do...	4 KB
bitnami	15-06-2022 21:37	CSS Source File	1 KB
favicon.ico	16-07-2015 21:02	ICO File	31 KB
index	16-07-2015 21:02	PHP Source File	1 KB
1	06-08-2024 22:48	PHP Source File	1 KB
text	06-08-2024 22:23	PHP Source File	1 KB

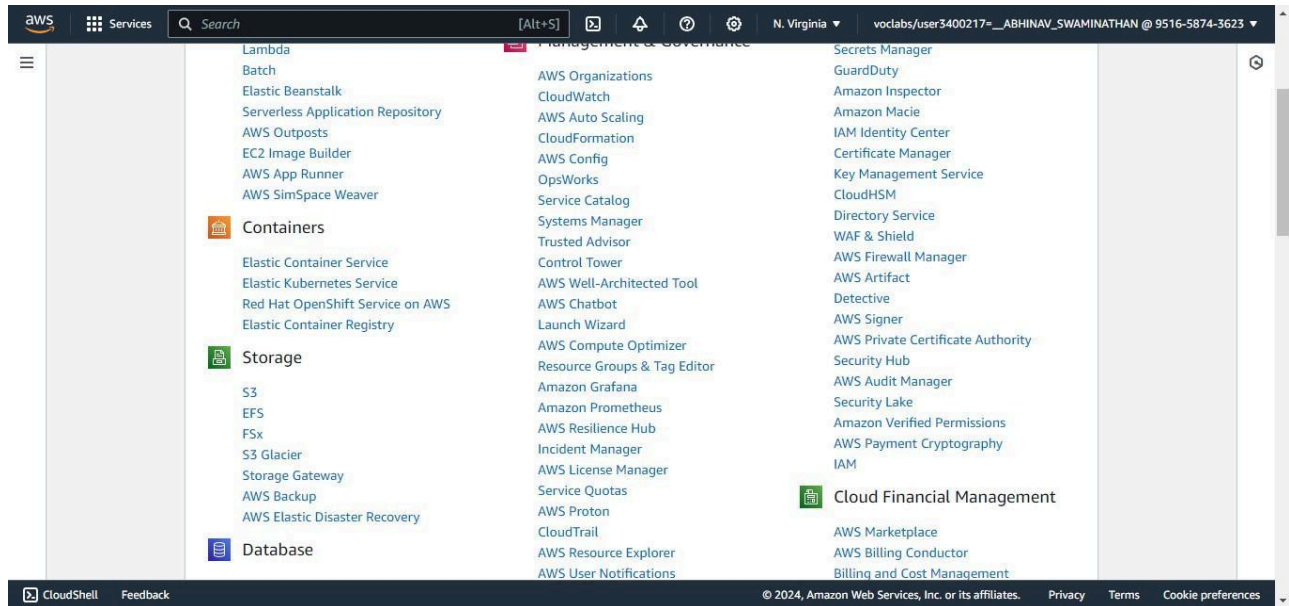
**Step 4: Open the XAMPP Control Panel and start the Apache service (required) and the MySQL service (if needed)**



**Step 5: Open your web browser. Type localhost/YOUR\_FILENAME.php. This will open your website on your browser.**



# AWS EC2 Instances



Step 1: Log in to your AWS account. Go to services and open EC2.

Resources

EC2 Global View 





You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)	2	Auto Scaling Groups	0
Capacity Reservations	0	Dedicated Hosts	0
Elastic IPs	0	Instances	2
Key pairs	1	Load balancers	0
Placement groups	0	Security groups	3
Snapshots	0	Volumes	2

**Step 2: Click on Launch an Instance:**

EC2 > Instances > Launch an instance

## 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

[Add additional tags](#)

**Step 3: Assign a name to your EC2 instance, keeping other options default. Scroll down and click on 'Launch Instance'.**

### Name and tags [Info](#)

Name

[Add additional tags](#)

**Step 4: Click on the name of your EC2 instance and go to the 'Details' section**

### ▼ 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

Recents

Quick Start

Amazon Linux

aws

macOS

Mac

Ubuntu

ubuntu®

Windows

Microsoft

Red Hat

Red Hat

SUSE L

SUS

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Instances (2) [Info](#)

Refresh

Connect

Instance state ▼

Actions ▼

Launch instances ▼

All states ▼

< 1 >

<input type="checkbox"/>	Name ↗	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input type="checkbox"/>	Nishant Khetal	i-0341f2e761db28aec	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1c	ec2-52-
<input type="checkbox"/>	Nishant	i-0689f78090ca339a9	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1c	ec2-34-

## Step 5: Create a Connection.

Establishing Connection ...

```
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1009-aws x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/pro

system information as of Sun Aug  4 05:22:27 UTC 2024

System load:  0.08               Processes:    103
Usage of /:   22.9% of 6.71GB    Users logged in: 0
Memory usage: 19%               IPv4 address for enx0: 172.31.32.166
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.
```

## Step 6: Run the commands:

```
root@ip-172-31-32-106:~/temp# wget https://www.free-css.com/assets/files/free-css-templates/download/page296/neogym.zip
--2024-08-04 05:39:23-- https://www.free-css.com/assets/files/free-css-templates/download/page296/neogym.zip
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:8d8:100f:f000::29f
Connecting to www.free-css.com (www.free-css.com)[217.160.0.242]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 724954 (708K) [application/zip]
Saving to: 'neogym.zip'

neogym.zip           0%[          ] 0 --.-KB/s    ne
ogym.zip            9%[=====] 63.73K  294KB/s    neog
ym.zip             33%[=====] 239.73K  563KB/s    neogym
.zip              100%[=====] 707.96K  1.17MB/s    in 0.6s

2024-08-04 05:39:24 (1.17 MB/s) - 'neogym.zip' saved [724954/724954]

root@ip-172-31-32-106:~/temp#
```

## Step 7: Upload the zip file of website:

```
root@ip-172-31-32-106:~/temp# wget https://www.free-css.com/assets/files/free-css-templates/download/page296/neogym.zip
--2024-08-04 05:39:23-- https://www.free-css.com/assets/files/free-css-templates/download/page296/neogym.zip
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:8d8:100f:f000::29f
Connecting to www.free-css.com (www.free-css.com)[217.160.0.242]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 724954 (708K) [application/zip]
Saving to: 'neogym.zip'

neogym.zip           0%[          ] 0 --.-KB/s    ne
ogym.zip            9%[=====] 63.73K  294KB/s    neog
ym.zip             33%[=====] 239.73K  563KB/s    neogym
.zip              100%[=====] 707.96K  1.17MB/s    in 0.6s

2024-08-04 05:39:24 (1.17 MB/s) - 'neogym.zip' saved [724954/724954]

root@ip-172-31-32-106:~/temp#

root@ip-172-31-32-106:~/temp# cd neogym-html;
root@ip-172-31-32-106:~/temp/neogym-html# ls -lrt
total 56
-rw-r--r-- 1 root root 6738 Sep 15 2020 why.html
-rw-r--r-- 1 root root 6842 Sep 15 2020 trainer.html
-rw-r--r-- 1 root root 17875 Sep 15 2020 index.html
-rw-r--r-- 1 root root 5649 Sep 15 2020 contact.html
drwxr-xr-x 2 root root 4096 Sep 15 2020 js
drwxr-xr-x 2 root root 4096 Sep 15 2020 images
drwxr-xr-x 2 root root 4096 Sep 15 2020 css
root@ip-172-31-32-106:~/temp/neogym-html# mv * /var/www/html/
root@ip-172-31-32-106:~/temp/neogym-html# cd /var/www/html/
root@ip-172-31-32-106:/var/www/html# ls -lrt
total 56
-rw-r--r-- 1 root root 6738 Sep 15 2020 why.html
-rw-r--r-- 1 root root 6842 Sep 15 2020 trainer.html
-rw-r--r-- 1 root root 17875 Sep 15 2020 index.html
-rw-r--r-- 1 root root 5649 Sep 15 2020 contact.html
drwxr-xr-x 2 root root 4096 Sep 15 2020 js
drwxr-xr-x 2 root root 4096 Sep 15 2020 images
drwxr-xr-x 2 root root 4096 Sep 15 2020 css
root@ip-172-31-32-106:/var/www/html#
```

## Step 8 : Provide all the required Inbound rules:

Inbound rules <a href="#">info</a>						
Security group rule ID	Type <a href="#">info</a>	Protocol <a href="#">info</a>	Port range <a href="#">info</a>	Source <a href="#">info</a>	Description - optional <a href="#">info</a>	
sg-07948c0eb22a82a12	SSH	TCP	22	Custom	<input type="text" value="0.0.0.0/0"/>	<input type="button" value="Delete"/>
-	HTTP	TCP	80	Anyw...	<input type="text" value="0.0.0.0/0"/>	<input type="button" value="Delete"/>
-	HTTPS	TCP	443	Anyw...	<input type="text" value="0.0.0.0/0"/>	<input type="button" value="Delete"/>
<input type="button" value="Add rule"/>						

## Step 9: Start the Apache Server:

```
root@ip-172-31-32-106:/var/www/html# sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Sun 2024-08-04 05:30:27 UTC; 23min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 14033 (apache2)
    Tasks: 55 (limit: 1130)
   Memory: 7.2M (peak: 7.4M)
      CPU: 137ms
   CGroup: /system.slice/apache2.service
           └─14033 /usr/sbin/apache2 -k start
             └─14036 /usr/sbin/apache2 -k start
               └─14037 /usr/sbin/apache2 -k start

Aug 04 05:30:27 ip-172-31-32-106 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Aug 04 05:30:27 ip-172-31-32-106 systemd[1]: Started apache2.service - The Apache HTTP Server.
```

## Step 10 : Now reload the website. You can see your website with public IP:

