

## Some important points

**Distribute Across Zones:** Use multiple availability zones for disaster recovery.

Separate **Routing Tables:** Set up distinct routing tables for public and private networks.

**Implement IGW:** Use an Internet Gateway for seamless connectivity with the internet.

Consider **NAT Gateway:** Evaluate the need for a NAT gateway for outbound traffic.

Convert to Class B: If using a Class A address (e.g., 10.x.x.x), consider converting to Class B.

**Choose Tenancy Wisely:** Default tenancy is often sufficient; dedicated tenancy is costlier.

**Shared Services:** Default tenancy means utilizing shared infrastructure for efficiency.

**Check NAT Gateway Setting:** By default, no NAT gateway is assigned; assess if it's necessary for your setup.

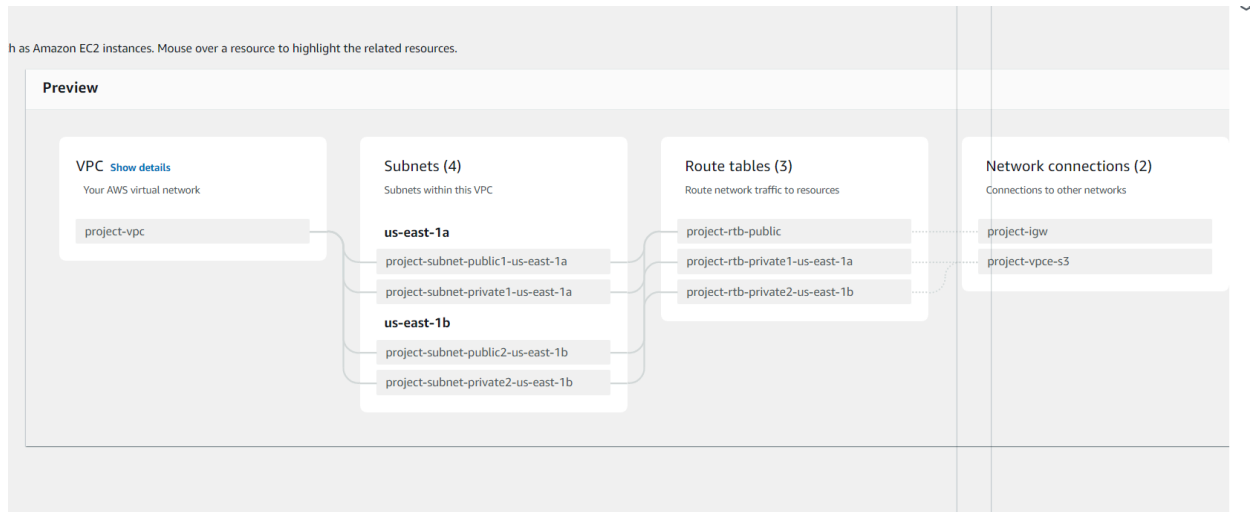
Lets start from here..

### 1) Go to VPC Dashboard and create VPC.

A name is provided and required configurations can be done.

The screenshot shows the 'Create VPC' page in the AWS Management Console. At the top, there's a breadcrumb trail: 'VPC > Your VPCs > Create VPC'. The main heading is 'Create VPC' with an 'Info' link. Below this, a descriptive sentence states: 'A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.' The 'VPC settings' section contains three main parts: 1) 'Resources to create' with a sub-note 'Create only the VPC resource or the VPC and other networking resources.' and two radio button options: 'VPC only' (which is selected) and 'VPC and more'. 2) 'Name tag - optional' with a sub-note 'Creates a tag with a key of 'Name' and a value that you specify.' and a text input field containing 'NewVPC'. 3) 'IPv4 CIDR block' with a sub-note 'Info' and two radio button options: 'IPv4 CIDR manual input' (selected) and 'IPAM-allocated IPv4 CIDR block'.

The preview of VPC are shown as:



#### IPv4 CIDR block [Info](#)

- ☒ IPv4 CIDR manual input
- ☐ IPAM-allocated IPv4 CIDR block

#### IPv4 CIDR

10.0.0.0/16

CIDR block size must be between /16 and /28.

#### IPv6 CIDR block [Info](#)

- ☒ No IPv6 CIDR block
- ☐ IPAM-allocated IPv6 CIDR block
- ☐ Amazon-provided IPv6 CIDR block
- ☐ IPv6 CIDR owned by me

#### Tenancy [Info](#)

## 2) Click on Create VPC.

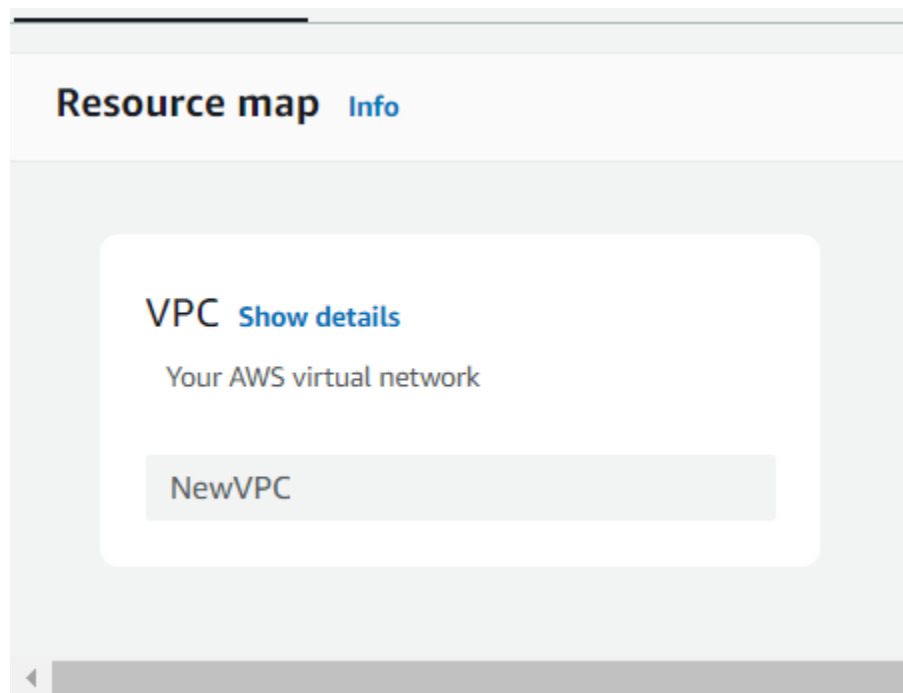
### Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional	
<input type="text" value="Name"/>	<input type="text" value="NewVPC"/>	<input type="button" value="Remove tag"/>
<input type="button" value="Add tag"/>		

You can add 49 more tags

## 3) Successful VPC Configuration



## CREATING SUBNETS

### 4) Go to Subnets and Create Subnet.

Subnets (6) <a href="#">Info</a>									
<input type="text" value="Find resources by attribute or tag"/>									
<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR			
<input type="checkbox"/>	-	<a href="#">subnet-0c8a67d85372793f7</a>	Available	<a href="#">vpc-0b7272288b62dddec</a>	172.31.80.0/20	-			
<input type="checkbox"/>	-	<a href="#">subnet-00bfd4caa6246652d</a>	Available	<a href="#">vpc-0b7272288b62dddec</a>	172.31.64.0/20	-			
<input type="checkbox"/>	-	<a href="#">subnet-032651b5942c27e5c</a>	Available	<a href="#">vpc-0b7272288b62dddec</a>	172.31.48.0/20	-			
<input type="checkbox"/>	-	<a href="#">subnet-030e7321e75aff44e</a>	Available	<a href="#">vpc-0b7272288b62dddec</a>	172.31.16.0/20	-			
<input type="checkbox"/>	-	<a href="#">subnet-0d2e8b94ac8ac629a</a>	Available	<a href="#">vpc-0b7272288b62dddec</a>	172.31.0.0/20	-			
<input type="checkbox"/>	-	<a href="#">subnet-020aceafd4a3e074e</a>	Available	<a href="#">vpc-0b7272288b62dddec</a>	172.31.32.0/20	-			

### 5) Configure Subnets with the previous made VPC.

[VPC](#) > [Subnets](#) > Create subnet

## Create subnet [Info](#)

### VPC

VPC ID

Create subnets in this VPC.

vpc-00711f5902deabf02 (NewVPC) ▼

### Associated VPC CIDRs

IPv4 CIDRs

10.0.0.0/16

### Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

**6) Two subnets are created and configured as per requirements. One each for public and private usage.**

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

MypublicSubnet

The name can be up to 256 characters long.

Availability Zone

[Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US East (N. Virginia) / us-east-1a

IPv4 VPC CIDR block

[Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

10.0.0.0/16

IPv4 subnet CIDR block

10.0.0.0/24

256 IPs

<

>

^

v

▼ Tags - optional

You can add 49 more tags.

Remove

Subnet 2 of 2

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

MyprivateSubnet

The name can be up to 256 characters long.

Availability Zone

[Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US East (N. Virginia) / us-east-1a

IPv4 VPC CIDR block

[Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

10.0.0.0/16

IPv4 subnet CIDR block

10.0.1.0/24

256 IPs

<

>

^

v

▼ Tags - optional

Key	Value - optional

## 7) Subnets created successfully.

✓ You have successfully created 2 subnets: subnet-07ee472fa14a5757a, subnet-032251ea0dc312e24

**Subnets (2)** Info

Find resources by attribute or tag

Subnet ID : subnet-07ee472fa14a5757a X Subnet ID : subnet-032251ea0dc312e24 X Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	MyprivateSubnet	<a href="#">subnet-032251ea0dc312e24</a>	✓ Available	<a href="#">vpc-00711f5902deabf02</a>	10.0.1.0/24	-
<input type="checkbox"/>	MypublicSubnet	<a href="#">subnet-07ee472fa14a5757a</a>	✓ Available	<a href="#">vpc-00711f5902deabf02</a>	10.0.0.0/24	-

## 8) Creating Internet gateway

[Alt+S]

**Internet gateways (1)** Info

Search

<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	-	<a href="#">igw-046e1162e67b588b5</a>	✓ Attached	<a href="#">vpc-0b727288b62dddec</a>	304064102356

Click on create internet gateway and name it.

VPC > Internet gateways > Create internet gateway

### Create internet gateway Info

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

**Internet gateway settings**

**Name tag**  
Creates a tag with a key of 'Name' and a value that you specify.

**Tags - optional**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key:  X Value - optional:  X Remove

Add new tag

You can add 49 more tags.

Cancel Create internet gateway

The state is detached previously.

VPC > Internet gateways > igw-091542870080454ce

## igw-091542870080454ce / mynew\_igateway

**Details** [Info](#)

Internet gateway ID igw-091542870080454ce	State Detached	VPC ID -
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Go to Actions and attach to VPC.

102356

**Actions** ▲

- Attach to VPC
- Detach from VPC
- Manage tags
- Delete

Manage tags

## 9) The gateway is attached to the previously created VPC.

**Attach to VPC (igw-091542870080454ce)** [Info](#)

**VPC**  
Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs  
Attach the internet gateway to this VPC.

► AWS Command Line Interface command

[Cancel](#) [Attach internet gateway](#)

**Details** [Info](#)

Internet gateway ID igw-091542870080454ce	State Attached	VPC ID <a href="#">vpc-00711f5902deabf02   NewVPC</a>	Owner 304064102356
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**Tags**

Key	Value
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**Route tables (2)** [Info](#)

[Refresh](#) [Actions](#) [Create route table](#)

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Own...
<input type="checkbox"/>	-	<a href="#">rtb-087023af88bd4a2f6</a>	-	-	Yes	<a href="#">vpc-00711f5902deabf02   New...</a>	304064...
<input type="checkbox"/>	-	<a href="#">rtb-035f3ebcb0d13c95d</a>	-	-	Yes	<a href="#">vpc-0b7272288b62dddec</a>	304064...



## 10) Creating Route Table

Now, route table is created and the VPC made above is selected.

VPC > Route tables > Create route table

### Create route table [Info](#)

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

**Route table settings**

**Name - optional**  
Create a tag with a key of 'Name' and a value that you specify.

**VPC**  
The VPC to use for this route table.

vpc-00711f5902deabf02 (NewVPC) ▼

**Tags**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

**Key** **Value - optional**

X  X

You can add 49 more tags.

Target - local

Internally there is communication between default by subnet

Configuration to be done from local to the internet

## 11) Choose a public subnet.

**Routes** | **Subnet associations** | Edge associations | Route propagation | Tags

### Explicit subnet associations (0)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
No subnet associations			
You do not have any subnet associations.			

### Subnets without explicit associations (2)

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
MyprivateSubnet	<a href="#">subnet-032251ea0dc312e24</a>	10.0.1.0/24	–
MypublicSubnet	<a href="#">subnet-07ee472fa14a5757a</a>	10.0.0.0/24	–

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/2)

Filter subnet associations

	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/>	MyprivateSubnet	subnet-032251ea0dc312e24	10.0.1.0/24	-	Main (rtb-087023af88bd4a2f6)
<input checked="" type="checkbox"/>	MypublicSubnet	subnet-07ee472fa14a5757a	10.0.0.0/24	-	Main (rtb-087023af88bd4a2f6)

Selected subnets

subnet-07ee472fa14a5757a / MypublicSubnet

Cancel

Save associations

12)Explicit Subnet Association is done so that it is accessible by the internet.

RoutesSubnet associationsEdge associationsRoute propagationTags

Explicit subnet associations (1)

Edit subnet associations

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
MypublicSubnet	subnet-07ee472fa14a5757a	10.0.0.0/24	-

Subnets without explicit associations (1)

Edit subnet associations

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
MyprivateSubnet	subnet-032251ea0dc312e24	10.0.1.0/24	-

RoutesSubnet associationsEdge associationsRoute propagationTags

Routes (1)

BothEdit routes

Filter routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No

### 13)Editing Route in Route Table

Route is edited to associate Internet Gateway.

VPC > Route tables > rtb-075280296c00d9cba > Edit routes

### Edit routes

Destination	Target	Status
10.0.0.0/16	local	✓ Active
<input type="text" value="0.0.0.0/0"/>	<input type="text" value="local"/>	-
<input type="button" value="Add route"/>	<div><div>Carrier Gateway</div><div>Core Network</div><div>Egress Only Internet Gateway</div><div>Gateway Load Balancer Endpoint</div><div>Instance</div><div>Internet Gateway</div><div>local</div><div>NAT Gateway</div><div>Network Interface</div><div>Outpost Local Gateway</div><div>Peering Connection</div><div>Transit Gateway</div><div>Virtual Private Gateway</div></div>	

VPC > Route tables > rtb-075280296c00d9cba > Edit routes

### Edit routes

Destination	Target	Status
10.0.0.0/16	local	✓ Active
<input type="text" value="0.0.0.0/0"/>	<input type="text" value="local"/>	-
<input type="button" value="Add route"/>	<div><div>Internet Gateway</div><div><input type="text" value="igw-091542870080454ce"/></div></div>	

Save changes

VPC > Route tables > rtb-075280296c00d9cba

rtb-075280296c00d9cba / mynewvpc\_routetable Actions ▾

**Details** Info

Route table ID  
rtb-075280296c00d9cba

VPC  
vpc-00711f5902deabf02 | NewVPC

Main  
No

Owner ID  
304064102356

Explicit subnet associations  
subnet-07ee472fa14a5757a / MypublicSubnet

Edge associations  
–

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (2)

Both ▾

Edit routes

Filter routes

< 1 > ⌕

Destination ▾	Target ▾	Status ▾	Propagated ▾
0.0.0.0/0	<a href="#">igw-091542870080454ce</a>	Active	No
10.0.0.0/16	local	Active	No

14)An instance is launched to host a static website and configure so that it is accessible by local machine.

Snapshots

0

Volumes

## Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance ▾

Migrate a server ↗

Note: Your instances will launch in the US East (N. Virginia) Region

## 15) Name and AMI is selected.

[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 following the simple steps below.

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

Name

[Add additional tags](#)


### ▼ 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




macOS




Ubuntu




Windows




Red Hat



SUSE Linux



  
Browse more images  
Including Amazon Machine Images

## 16) Instance type (t2.micro) is selected and previously created Key Pair (keypair.pem) is selected.

▼ 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: 0.0716 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

▼ 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*

keypair ▼

[Create new key pair](#)

Soft

Ama

ami-C

Virtu

t2.m

Firev

New

Stor:

1 vol

G

## 17) Instance Network Settings

▼ Network settings [Info](#)

Edit

Network [Info](#)

vpc-0b7272288b62dddec

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

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-5' 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

▼ Network settings Info

VPC - required Info

vpc-00711f5902deabf02 (NewVPC)  
10.0.0.0/16

Subnet Info

subnet-07ee472fa14a5757a MypublicSubnet  
VPC: vpc-00711f5902deabf02 Owner: 304064102356 Availability Zone: us-east-1a  
IP addresses available: 251 CIDR: 10.0.0.0/24

Create new

Auto-assign public IP Info

Enable

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 instance.

Create security group

Select existing security group

Security group name - required

sg\_mynewvpc

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and \_-./()#,@[]+=&;{}!\$\*

Description - required Info

launch-wizard-5 created 2024-02-26T06:06:42.610Z

Also, HTTP connection is allowed in the security group from anywhere.

launch-wizard-5 created 2024-02-26T06:06:42.610Z

Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0) Remove

Type Info

ssh

Protocol Info

TCP

Port range Info

22

Source type Info

Anywhere

Source Info

Add CIDR, prefix list or security  
0.0.0.0/0 X

Description - optional Info

e.g. SSH for admin desktop

▼ Security group rule 2 (TCP, 80, 0.0.0.0/0) Remove

Type Info

HTTP

Protocol Info

TCP

Port range Info

80

Source type Info

Anywhere

Source Info

Add CIDR, prefix list or security  
0.0.0.0/0 X

Description - optional Info

e.g. SSH for admin desktop

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

▼ Configure storage [Info](#)

Advanced

1x  GiB  ▼ 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

⌚ 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.

↻

## 18)Instance Creation Summary.Choose any no of instance

▼ Summary

Number of instances [Info](#)

Software Image (AMI)

Amazon Linux 2023 AMI 2023.3.2...[read more](#)  
ami-0440d3b780d96b29d

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

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, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the

×

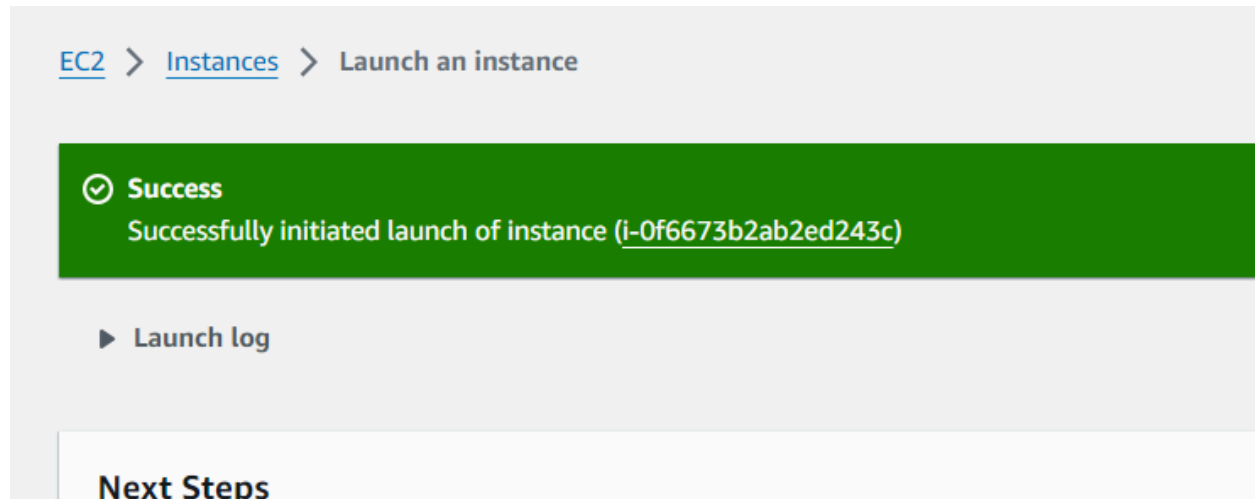
Cancel

Launch instance

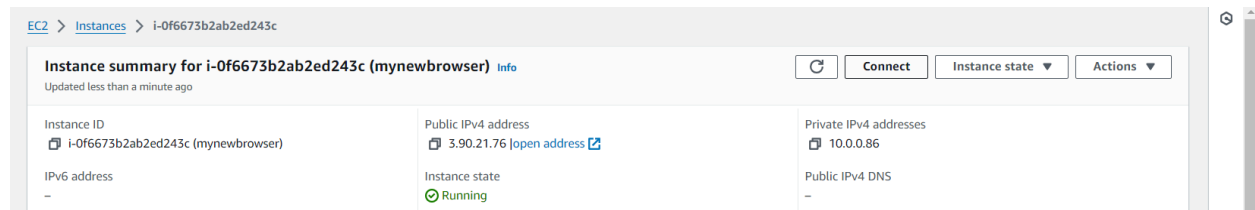
[Review commands](#)



**Successful creation of instances.**



19) Click on connect.



**Successfully connected to an Instance.**



## 20)Installing Apache Server

Apache Server is installed to Linux instance to host the static website.

```
[ec2-user@ip-10-0-0-86 ~]$ sudo yum update
Last metadata expiration check: 0:01:51 ago on Mon Feb 26 06:19:50 2024.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-10-0-0-86 ~]$ sudo yum install httpd
Last metadata expiration check: 0:04:10 ago on Mon Feb 26 06:19:50 2024.
Dependencies resolved.
=====
Package                                         Architecture
=====
Installing:
  httpd                                         x86_64
Installing dependencies:
  apr                                           x86_64
  apr-util                                     x86_64
  generic-logos-httpd                          noarch
  httpd-core                                   x86_64
  httpd-filesystem                            noarch
  httpd-tools                                  x86_64
  libbrotli                                    x86_64
  mailcap                                       noarch
```

```
Install 12 Packages
Total download size: 2.3 M
Installed size: 6.9 M
Is this ok [y/N]: y
Downloading Packages:
(1/12): apr-util-1.6.3-1.amzn2023.0.1.x86_64.rpm
(2/12): mod_lua-2.4.58-1.amzn2023.x86_64.rpm
(3/12): httpd-core-2.4.58-1.amzn2023.x86_64.rpm
(4/12): httpd-tools-2.4.58-1.amzn2023.x86_64.rpm
(5/12): apr-1.7.2-2.amzn2023.0.2.x86_64.rpm
(6/12): libbrotli-1.0.9-4.amzn2023.0.2.x86_64.rpm
(7/12): mod_http2-2.0.11-2.amzn2023.x86_64.rpm
(8/12): httpd-2.4.58-1.amzn2023.x86_64.rpm
(9/12): apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64.rpm
(10/12): generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch.rpm
(11/12): mailcap-2.1.49-3.amzn2023.0.3.noarch.rpm
(12/12): httpd-filesystem-2.4.58-1.amzn2023.noarch.rpm
-----
Total
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :
  Installing     : apr-1.7.2-2.amzn2023.0.2.x86_64
  Installing     : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
  Installing     : apr-util-1.6.3-1.amzn2023.0.1.x86_64
  Installing     : mailcap-2.1.49-3.amzn2023.0.3.noarch
  Installing     : httpd-tools-2.4.58-1.amzn2023.x86_64
  Running scriptlet: httpd-filesystem-2.4.58-1.amzn2023.noarch
  Installing     : httpd-filesystem-2.4.58-1.amzn2023.noarch
```

## 21) Starting the Server

```
complete!  
[ec2-user@ip-10-0-0-86 ~]$ sudo service httpd start  
Redirecting to /bin/systemctl start httpd.service  
[ec2-user@ip-10-0-0-86 ~]$
```

```
The service command supports only basic LSB actions (start, stop, restart, try-restart, reload, reload-or-restart,  
ctions, please try to use systemctl.  
[ec2-user@ip-10-0-0-86 ~]$ sudo service httpd status  
Redirecting to /bin/systemctl status httpd.service  
● httpd.service - The Apache HTTP Server  
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)  
   Active: active (running) since Mon 2024-02-26 06:25:40 UTC; 7min ago  
     Docs: man:httpd.service(8)  
 Main PID: 25978 (httpd)  
   Status: "Total requests: 1; Idle/Busy workers 100/0;Requests/sec: 0.00223; Bytes served/sec: 1 B/sec"  
    Tasks: 177 (limit: 1114)  
  Memory: 13.5M  
     CPU: 329ms  
  CGroup: /system.slice/httpd.service  
          └─25978 /usr/sbin/httpd -DFOREGROUND  
            └─25979 /usr/sbin/httpd -DFOREGROUND  
              └─25980 /usr/sbin/httpd -DFOREGROUND  
                └─25981 /usr/sbin/httpd -DFOREGROUND  
                  └─25982 /usr/sbin/httpd -DFOREGROUND  
  
Feb 26 06:25:40 ip-10-0-0-86.ec2.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...  
Feb 26 06:25:40 ip-10-0-0-86.ec2.internal systemd[1]: Started httpd.service - The Apache HTTP Server.  
Feb 26 06:25:40 ip-10-0-0-86.ec2.internal httpd[25978]: Server configured, listening on: port 80  
[ec2-user@ip-10-0-0-86 ~]$
```

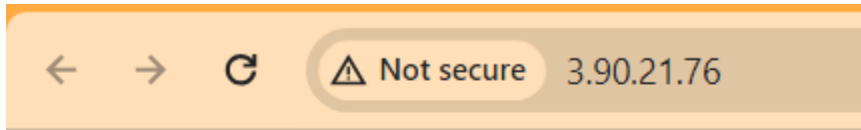
## 22) Check instance IP Address

```
Feb 26 06:25:40 ip-10-0-0-86.ec2.internal httpd[25978]  
[ec2-user@ip-10-0-0-86 ~]$
```

i-0f6673b2ab2ed243c (mynewbrowser)

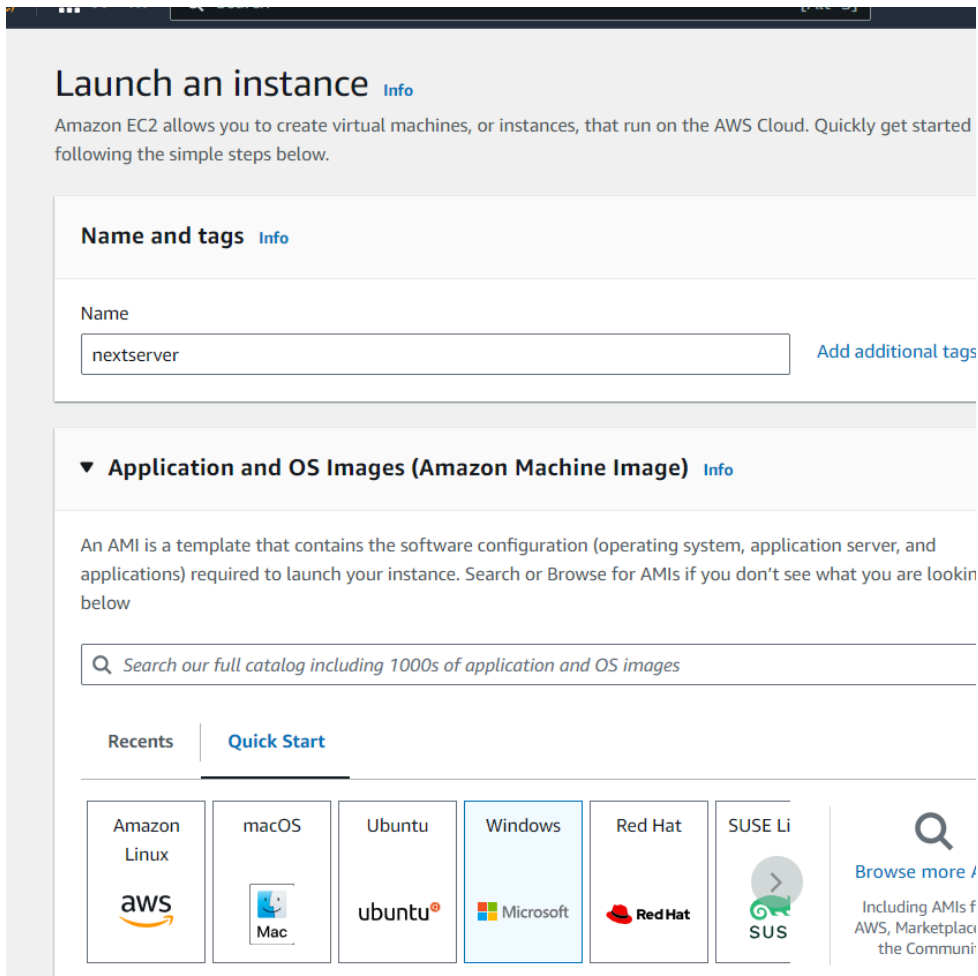
PublicIPs: 3.90.21.76 PrivateIPs: 10.0.0.86

23)The Apache server is running successfully.



# It works!

24)Choose Windows Instance



## 25) Configure Network Setting.

Public subnet is selected, and Public IP is auto assigned. Also, security group created for the Linux Instance is reused.

▼ Network settings [Info](#)

VPC - *required* | [Info](#)

vpc-00711f5902deabf02 (NewVPC)  
10.0.0.0/16

↻

Subnet | [Info](#)

subnet-07ee472fa14a5757a  
VPC: vpc-00711f5902deabf02   Owner: 304064102356   Availability Zone: us-east-1a  
IP addresses available: 250   CIDR: 10.0.0.0/24

MypublicSubnet  
↻ C

Auto-assign public IP | [Info](#)

Enable

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 your instance.

☐ Create security group

☒ Select existing security group

Common security groups [Info](#)

Select security groups

↻ C

sg\_mynewvpc sg-01f5f076fbe15f599 ✕  
VPC: vpc-00711f5902deabf02

Security groups that you add or remove here will be added to or removed from all your network interfaces.

► Advanced network configuration

EC2 > Instances > i-04129459350834b31

Instance summary for i-04129459350834b31 (nextserver) Info

Updated less than a minute ago

Refresh

Connect

Instance state ▼

Actions ▼

<div>Instance ID</div> <div>i-04129459350834b31 (nextserver)</div>	<div>Public IPv4 address</div> <div>54.208.185.107 <a href="#">open address</a></div>	<div>Private IPv4 addresses</div> <div>10.0.0.149</div>
<div>IPv6 address</div> <div>–</div>	<div>Instance state</div> <div>Running</div>	<div>Public IPv4 DNS</div> <div>–</div>
<div>Hostname type</div> <div>IP name: ip-10-0-0-149.ec2.internal</div>	<div>Private IP DNS name (IPv4 only)</div> <div>ip-10-0-0-149.ec2.internal</div>	
<div>Answer private resource DNS name</div> <div>–</div>	<div>Instance type</div> <div>t2.micro</div>	<div>Elastic IP addresses</div> <div>–</div>

26)Connecting to an instance

Connect to instance Info

Connect to your instance i-04129459350834b31 (nextserver) using any of these options

Session Manager

RDP client

EC2 serial console

⚠ You may not be able to connect to this instance as ports 3389 may need to be open in order to be accessible. The current associated security groups don't have ports 3389 open.

×

Instance ID

i-04129459350834b31 (nextserver)

Connection Type

⬢ Connect using RDP client

Download a file to use with your RDP client and retrieve your password.

⬢ Connect using Fleet Manager

To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see [Working with SSM Agent](#)

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

📄

Download remote desktop file

When prompted, connect to your instance using the following username and password:

Public IP

54.208.185.107

Username Info

Administrator ▼

Password

Get password

ℹ If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

27) The remote desktop file is downloaded and the keypair file is decrypted to connect to the instance.

Services

Search

[Alt+S]

[EC2](#) > [Instances](#) > [i-04129459350834b31](#) > Get Windows password

## Get Windows password

[Info](#)

Use your private key to retrieve and decrypt the initial Windows administrator password for this instance.

Instance ID  
i-04129459350834b31 (nextserver)

Key pair associated with this instance  
keypair

Private key  
Either upload your private key file or copy and paste its contents into the field below.

Upload private key file

Private key contents - optional

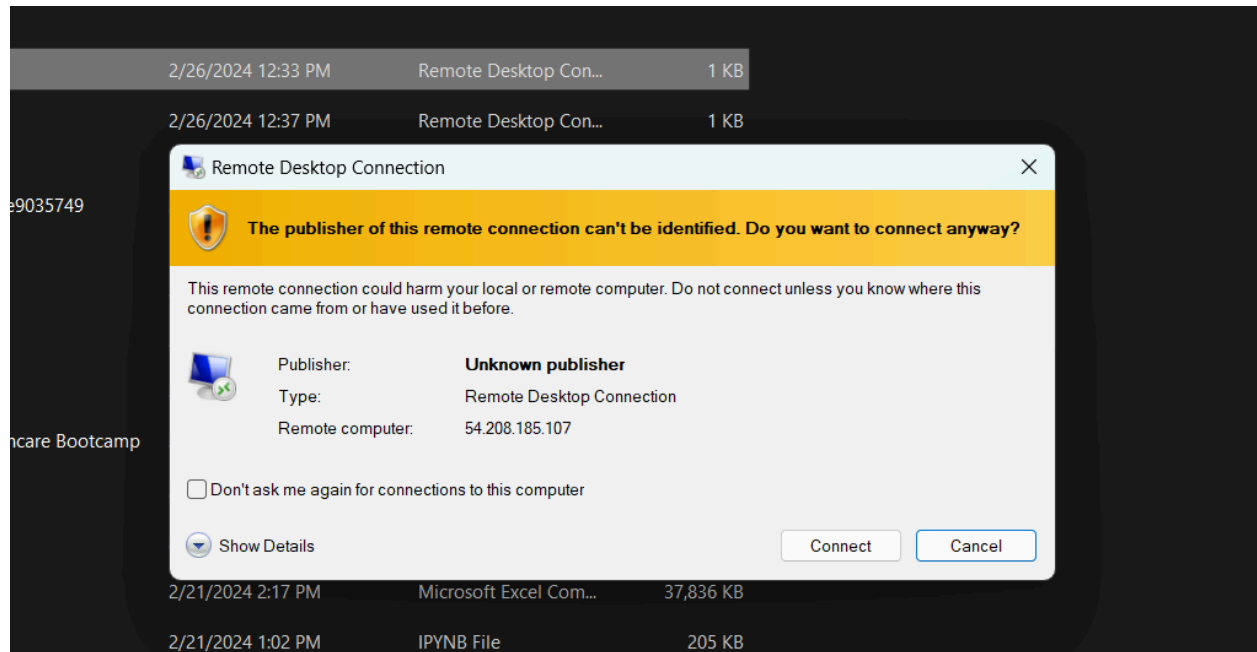
Private key contents

Cancel

Decrypt password

Cancel

Decrypt password

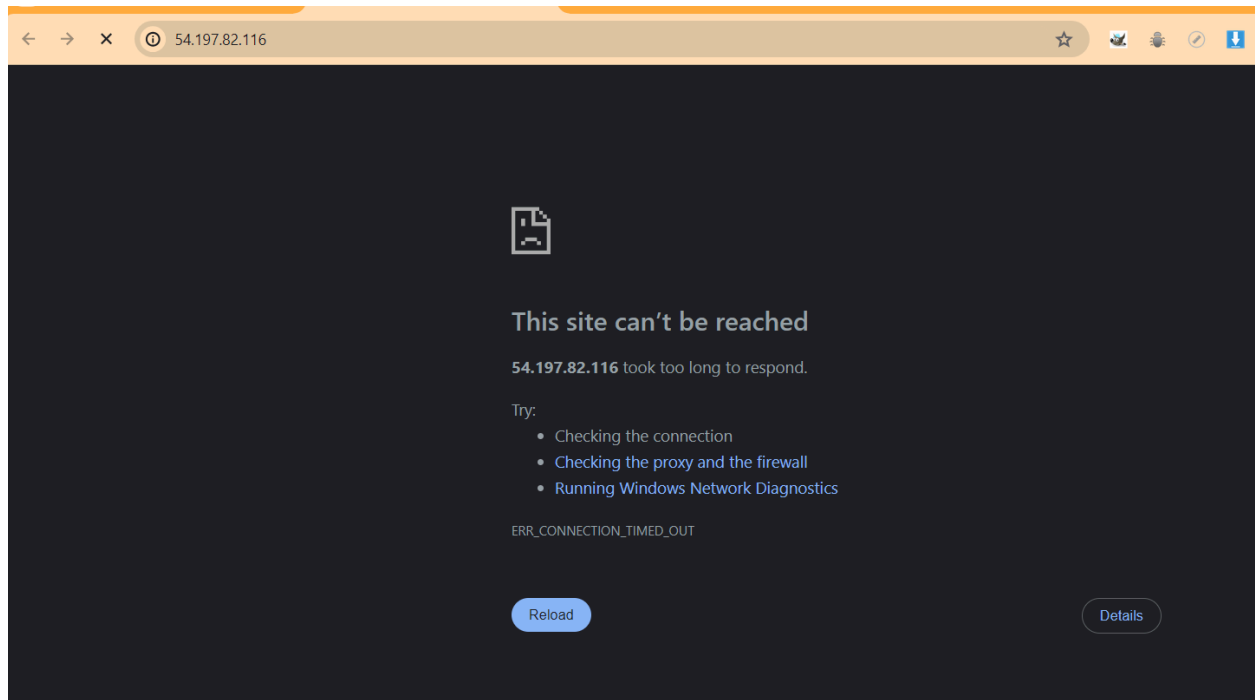


## 28) Successful Connection to Windows Instance



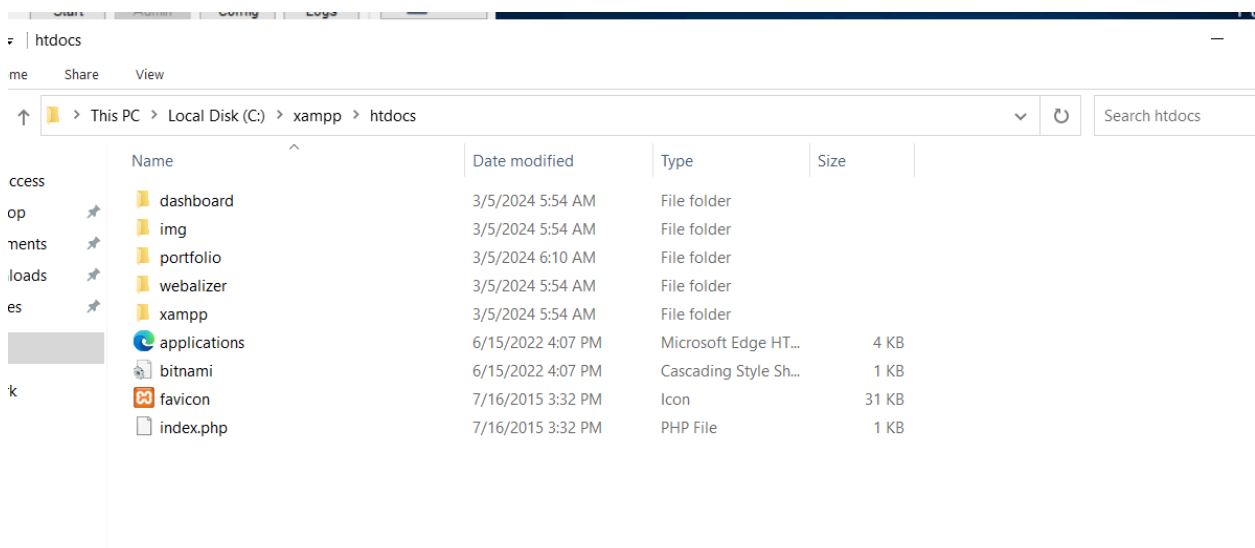
## 29) XAMPP is installed to host the static website and start the Apache Server.





## 29) Uploading Website Files

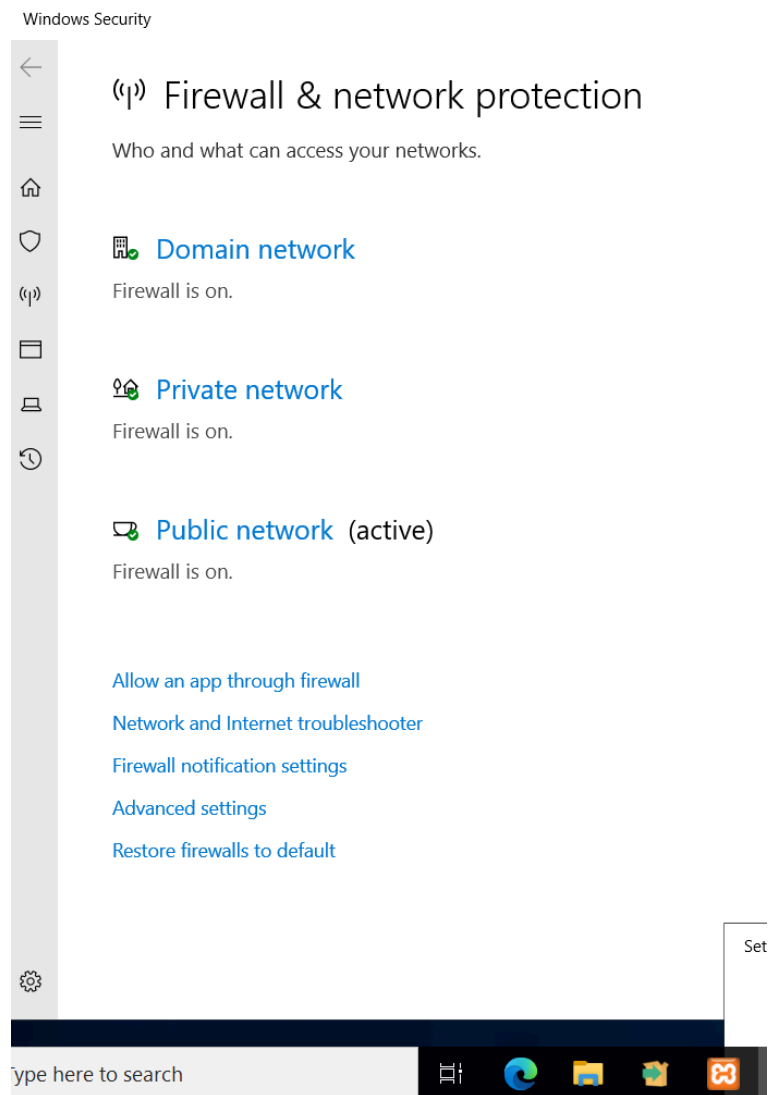
The HTML and image file is added inside htdocs of XAMPP under portfolio folder..



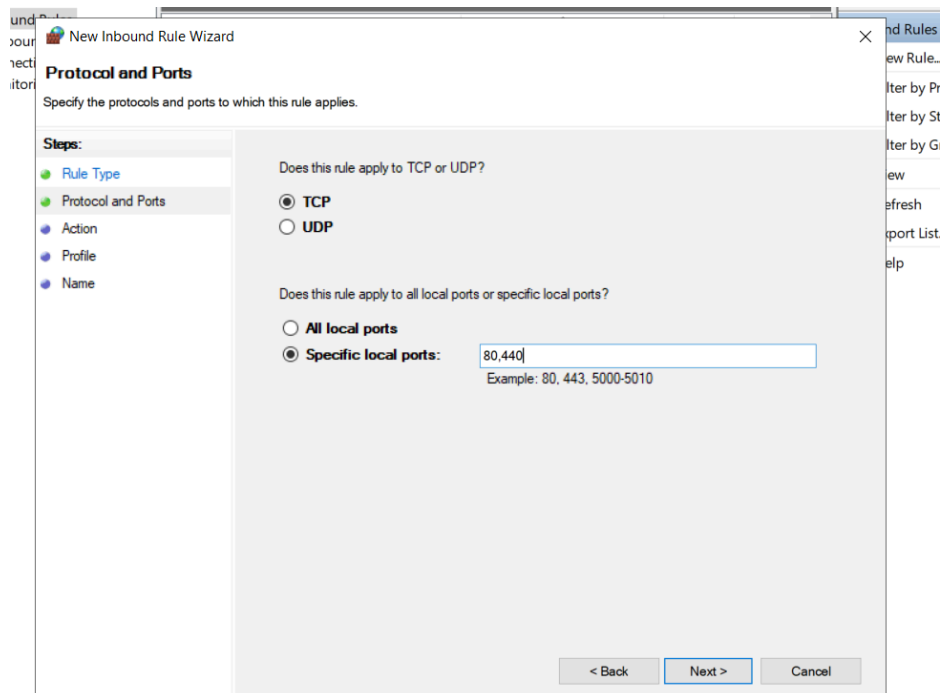
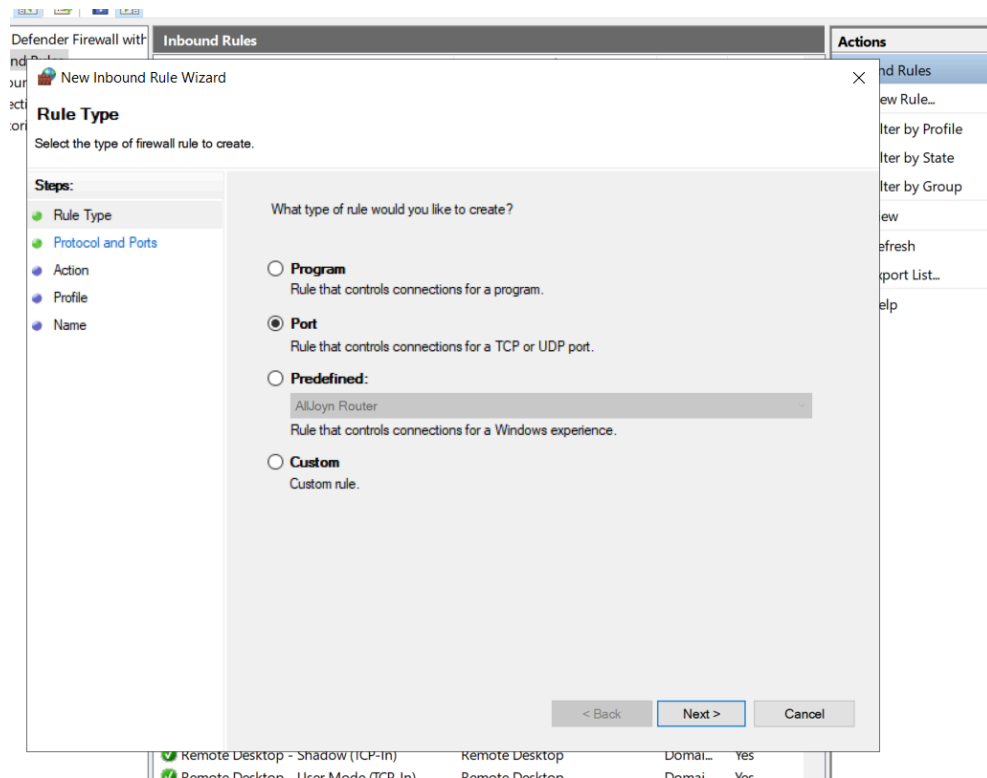
### 30) Changing Firewall Settings

Firewall Settings need to be changed if the website is to be accessed by the local machine.

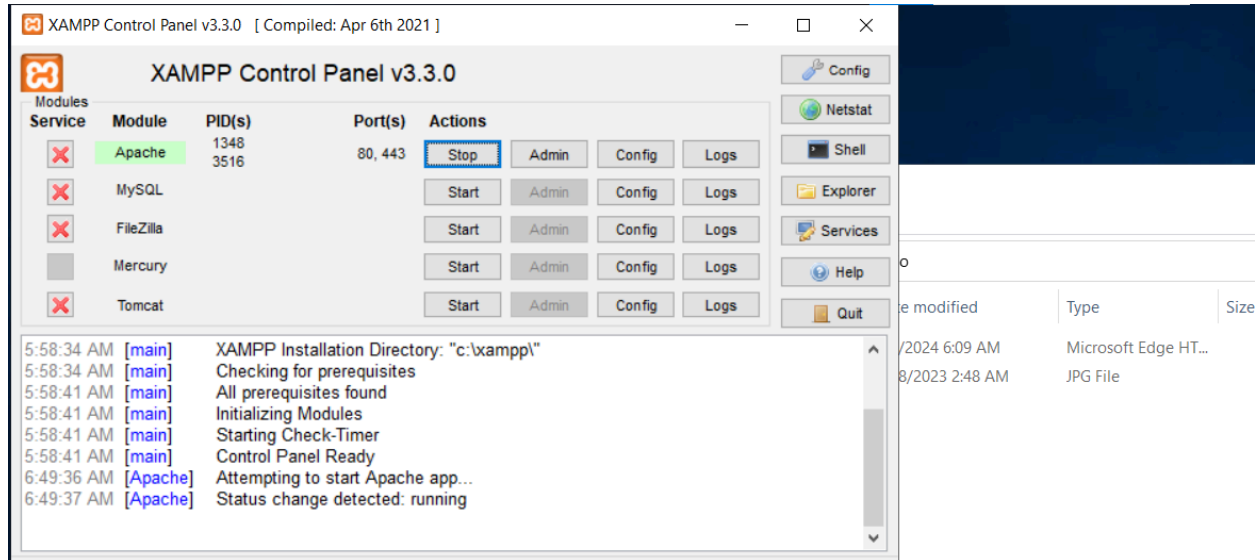
Go to Advanced Setting.



### 31) Add new rule for allowing HTTP (Port 80) and HTTPS (Port 443).



### 32) Starting Apache server



### 33)The static website is successfully accessible by the Local Machine.

