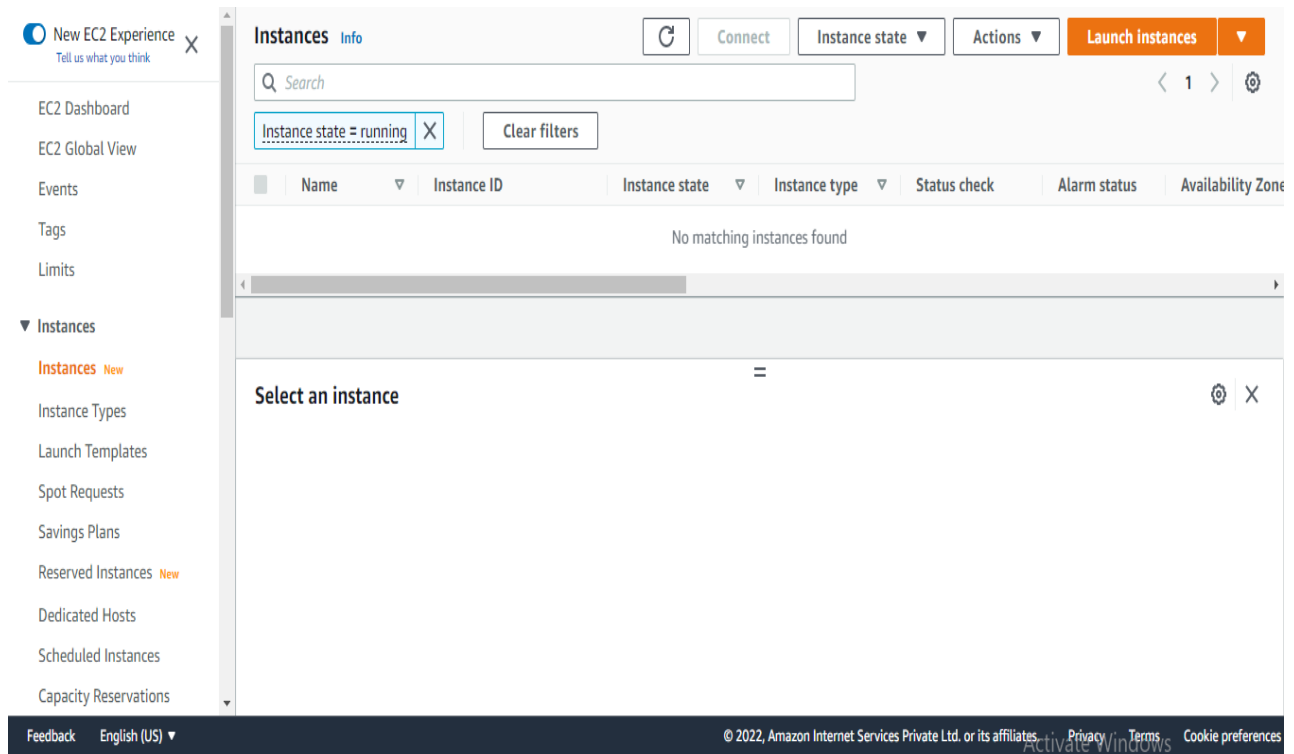


Static website on ec2(AWS)

Launch an EC2 instance

1. Sign in to AWS console and open the ec2 dashboard.



2. Choose the option to Launch Instance.
 - 2.1 Choose the free tier option to avoid chargers for machine.
 - 2.2 Under free tier you can use 750hrs an ec2 instance.
 - 2.3 Now choose the Amazon Linux 2 AMI instance and do further do further configuration in the next steps.

Step 1: Choose an Amazon Machine Image (AMI)

[Cancel and Exit](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Search by Systems Manager parameter

Quick Start

My AMIs

AWS Marketplace

Community AMIs

☒ Free tier only ⓘ

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-0c02fb55956c7d316 (64-bit x86) / ami-03190fe20ef6b1419 (64-bit Arm)

Free tier eligible

Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

☒ 64-bit (x86)
 ☐ 64-bit (Arm)

Amazon Linux 2 AMI (HVM) - Kernel 4.14, SSD Volume Type - ami-03e0b06f01d45a4eb (64-bit x86) / ami-018d50b368e796499 (64-bit Arm)

Free tier eligible

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard.

Select

☒ 64-bit (x86)
 ☐ 64-bit (Arm)

Activate Windows
Go to Settings to activate Windows.

3. Choose the **t2.micro** instance type, as shown following, and then choose **Next: Configure Instance Details**.

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance families Current generation Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family	Type	vCPUs ⓘ	Memory (GiB)	Instance Storage (GB) ⓘ	EBS-Optimized Available ⓘ	Network Performance ⓘ	IPv6 Support ⓘ
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes

[Cancel](#)
[Previous](#)
[Review and Launch](#)
[Next: Configure Instance Details](#)

Go to Settings to activate Windows.

4 . On the Configure Instance Details page as their defaults:

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances ⓘ
[Launch into Auto Scaling Group ⓘ](#)

Purchasing option ⓘ
☐ Request Spot instances

Network ⓘ
[Create new VPC](#)

Subnet ⓘ
[Create new subnet](#)

Auto-assign Public IP ⓘ

Hostname type ⓘ

DNS Hostname ⓘ
☒ Enable IP name IPv4 (A record) DNS requests
☒ Enable resource-based IPv4 (A record) DNS requests
☐ Enable resource-based IPv6 (AAAA record) DNS requests

Placement group ⓘ
☐ Add instance to placement group

[Cancel](#)
[Previous](#)
[Review and Launch](#)
[Next: Add Storage](#)

[Go to Settings to activate Windows.](#)

5. Choose Next: Add Storage

5.1 In the Add storage page you can extra ebs volume if you want by add volume Option.

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encryption ⓘ
Root	/dev/xvda	snap-0c1ac78aec1c4204c	<input type="text" value="8"/>	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Shared file systems ⓘ

[Cancel](#)
[Previous](#)
[Review and Launch](#)
[Next: Add Tags](#)

[Go to Settings to activate Windows.](#)

6. On the Configure Security Group page, Make sure that the security group that you choose includes inbound rules for Secure Shell (SSH) and HTTP access.

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group
☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0/0, :::0	e.g. SSH for Admin Desktop

[Add Rule](#)

Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#) [Previous](#) [Review and Launch](#)

Go to Settings to activate Windows.

7. Choose Review and Launch. On the Review Instance Launch page, shown following, verify your settings and then choose Launch.

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 7: Review Instance Launch

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-0c02fb55956c7d316
Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is n...
Root Device Type: ebs Virtualization type: hvm

▼ Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

[Edit instance type](#)

▼ Security Groups

Security group name launch-wizard-5

Description launch-wizard-5 created 2022-03-30T00:37:34.320+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	

[Edit security groups](#)

Activate Windows

[Cancel](#) [Previous](#) [Launch](#)

Go to Settings to activate Windows.

8. On the Select an existing key pair or create a new key pair page, shown following, choose Create a new key pair and set Key pair name. Choose Download Key Pair, and then save the key pair file on your local machine.

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more about removing existing key pairs from a public AMI.](#)

Create a new key pair

Key pair type

☒ RSA ☐ ED25519

Key pair name

bk1

Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

9. To launch your EC2 instance, choose Launch Instances. And you can check the status of in ec2 dashboard.

EC2 Dashboard
EC2 Global View
Events
Tags
Limits

▼ Instances

Instances New

Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations

▼ Images

Instances (1) Info



Connect

Instance state ▼

Actions ▼

Launch instances



Search



1



Instance state = running ✕

Clear filters

<input type="checkbox"/>	Name ▼	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	-	i-01cff6811b2eb6331	Running	t2.micro	✓	✓	us-east-1c

Select an instance

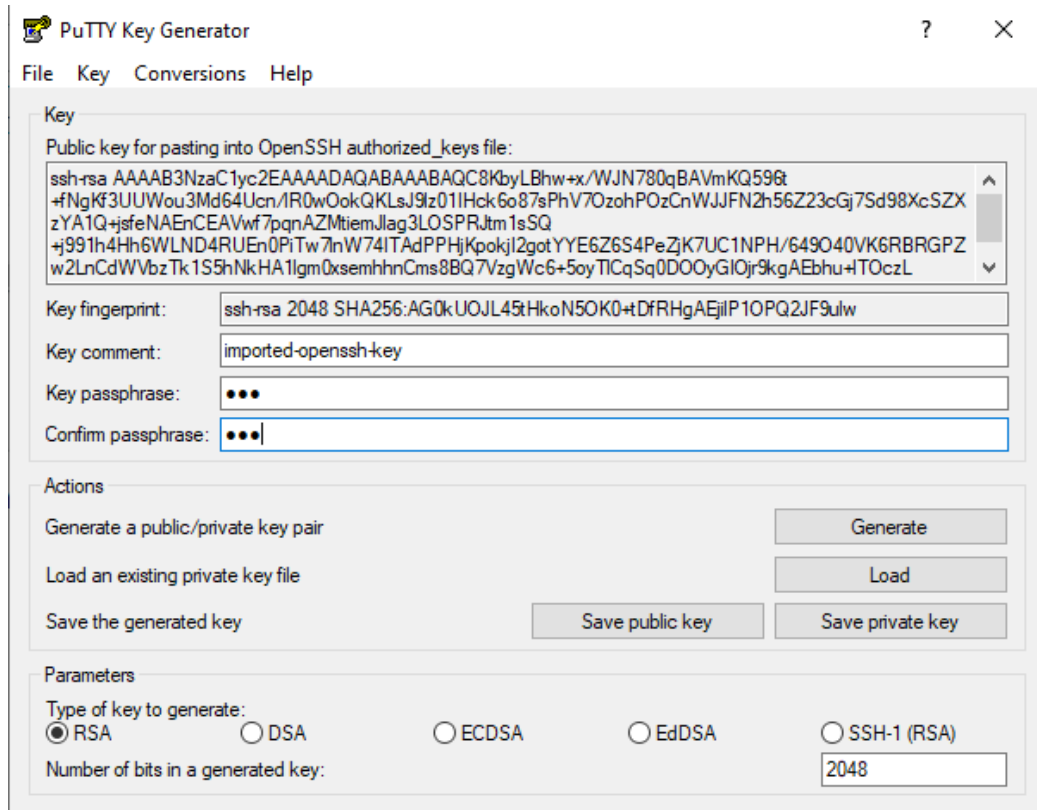
=



Activate Windows
Go to Settings to activate Windows.

To connect to your EC2 instance with the help of putty

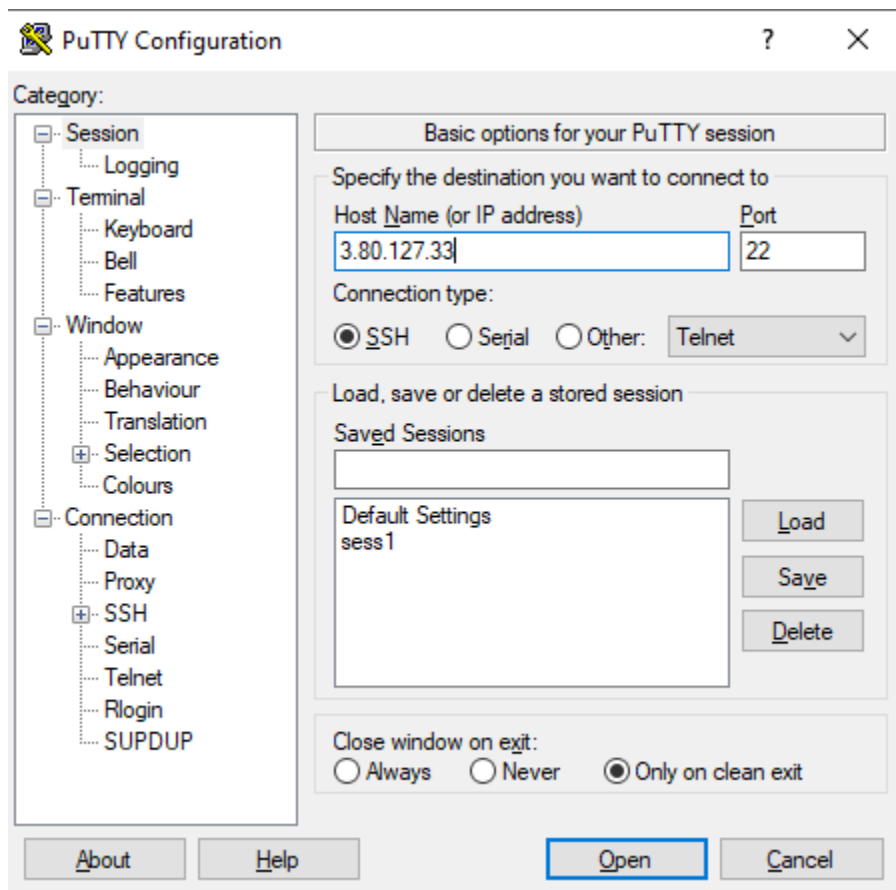
1 . Open puttygen and load the key you downloaded during the launchin of ec2 instance and generate private key and save private key to local machine.



2. Open putty application and paste the public ipv4 address of the ec2 instance in the putty and then go to SSH->Auth on the right side and upload the ppk file which is downloaded in the previos step and then click on the open button.

2.1 login as :- ec3-user

2.2 And write the same passphrase you created in step1(puttyGen) and hit enter.



```
ec2-user@ip-172-31-30-71:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
Passphrase for key "imported-openssh-key":
```

```
  _ | _ | )  
  _ | ( _ /  Amazon Linux 2 AMI  
  _ | \ _ | _ |
```

```
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-30-71 ~]$
```


3. To run the static website on ec2 instance follow following commands
 - 3.1 **sudo su**(To go into the the root directory of your linux instance.)
 - 3.2 **yum update -y**(to update all the resources in the instances.)
 - 3.3 **yum install httpd -y**(to install the httpd service on the machine)
 - 3.4 **pwd**(prints the current working directory path)
 - 3.5 **cd /var/www/html**
 - 3.6 **wget** (link of s3 zip file which have all the code of html and css)
 - 3.7 **unzip file_name.zip**(to unzip the file in the instance)
 - 3.8 **ls**(to check all the files present in the folder)
 - 3.9 **service httpd start**(to start the httpd service to host the website on the ec2 instance).

```
[root@ip-172-31-30-71 ec2-user]# yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.52-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.52-1.amzn2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: httpd filesystem = 2.4.52-1.amzn2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: httpd filesystem for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.52-1.amzn2.x86_64
--> Running transaction check
---> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
---> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
---> Package httpd filesystem.noarch 0:2.4.52-1.amzn2 will be installed
---> Package httpd-tools.x86_64 0:2.4.52-1.amzn2 will be installed
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
---> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
--> Running transaction check
---> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                                Arch                                Version
```

```

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-18-1 ~]$ sudo su
[root@ip-172-31-18-1 ec2-user]# yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
No packages marked for update
[root@ip-172-31-18-1 ec2-user]# yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.4.52-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.52-1.amzn2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.52-1.amzn2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.52-1.amzn2.x86_64
--> Running transaction check
--> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
--> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
--> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
--> Package httpd-filesystem.noarch 0:2.4.52-1.amzn2 will be installed
--> Package httpd-tools.x86_64 0:2.4.52-1.amzn2 will be installed
--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
--> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
--> Running transaction check

```

```

root@ip-172-31-82-141:/var/www/html
httpd-filesystem.noarch 0:2.4.52-1.amzn2
httpd-tools.x86_64 0:2.4.52-1.amzn2
mailcap.noarch 0:2.1.41-2.amzn2
mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!
[root@ip-172-31-82-141 ec2-user]# pwd
/home/ec2-user
[root@ip-172-31-82-141 ec2-user]# cd /var/www/html
[root@ip-172-31-82-141 html]# ls
[root@ip-172-31-82-141 html]# wget https://ambucket123.s3.amazonaws.com/wb.zip
--2022-03-29 18:45:19-- https://ambucket123.s3.amazonaws.com/wb.zip
Resolving ambucket123.s3.amazonaws.com (ambucket123.s3.amazonaws.com)... 52.217.109.156
Connecting to ambucket123.s3.amazonaws.com (ambucket123.s3.amazonaws.com)[52.217.109.156]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1936 (1.9K) [application/zip]
Saving to: 'wb.zip'

100%[=====>] 1,936 --.-K/s in 0s

2022-03-29 18:45:19 (81.7 MB/s) - 'wb.zip' saved [1936/1936]

[root@ip-172-31-82-141 html]# ls
wb.zip
[root@ip-172-31-82-141 html]# unzip wb.zip
Archive: wb.zip
  creating: css/
  inflating: css/styles.css
  inflating: contactme.html
  inflating: index.html
  extracting: mysite
[root@ip-172-31-82-141 html]# ls
contactme.html  css  index.html  mysite  wb.zip
[root@ip-172-31-82-141 html]# pwd
/var/www/html
[root@ip-172-31-82-141 html]# service httpd.service
The service command supports only basic LSB actions (start, stop, restart, try-restart, reload, force-reload, status). For other actions, please try to use systemctl.
[root@ip-172-31-82-141 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-82-141 html]#

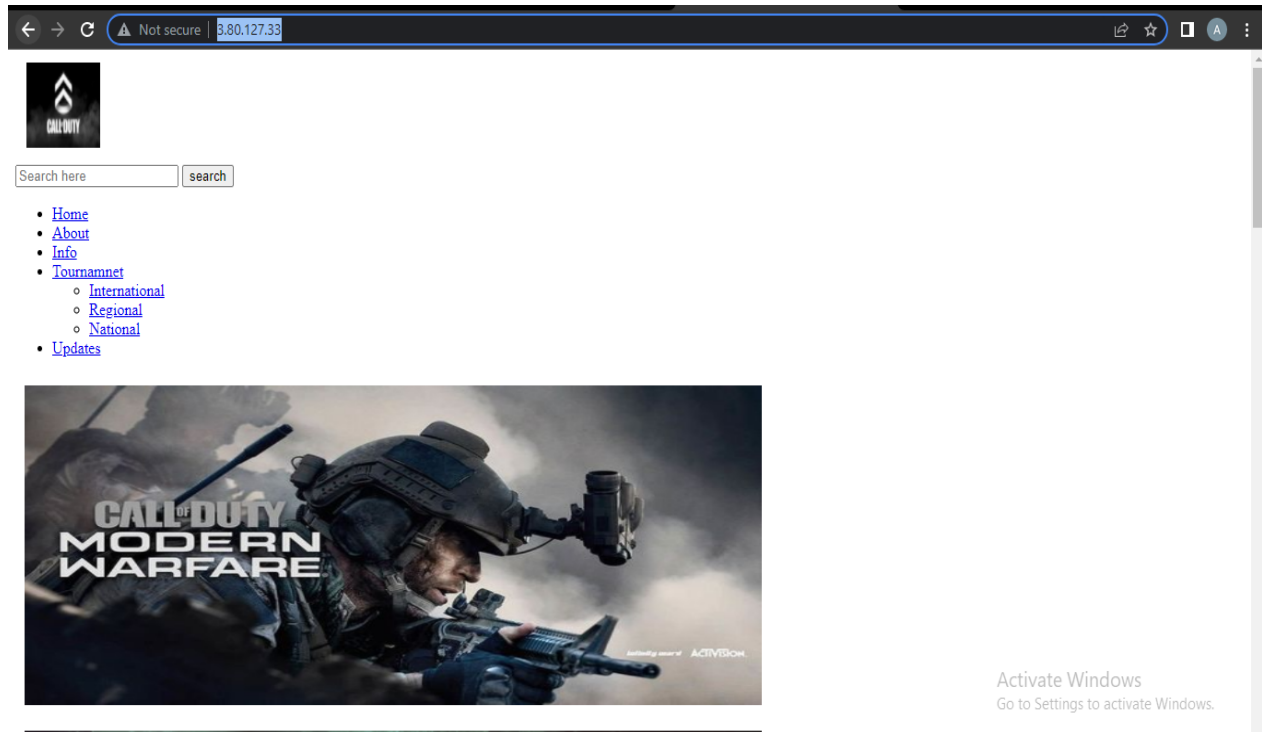
```

Activate Windows
 Go to Settings to activate Windows.

4. After successful start you get a message 'Redirecting to start
httpd.service

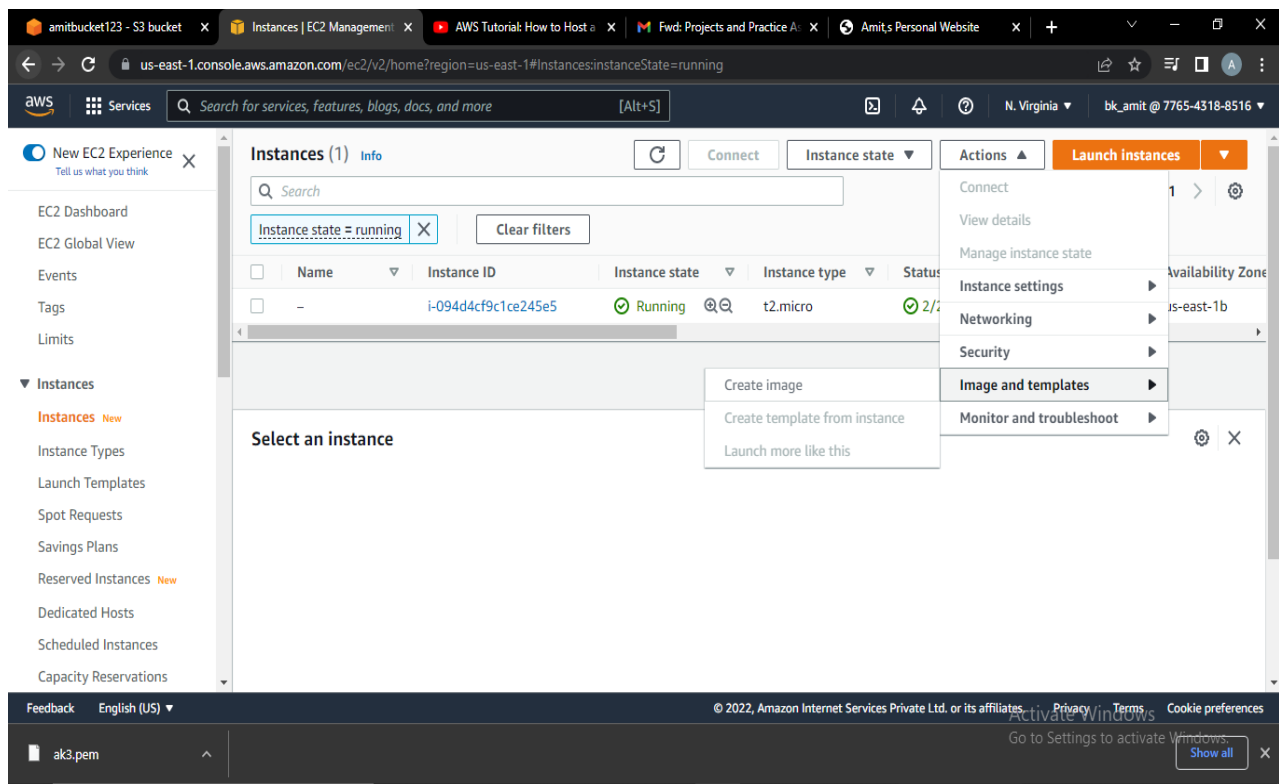
Now you can copy your instance public ipv4 address and paste in the browser and your website launched successfully on the ec2 instances.

Final snapshot of launched website on ec2 instance(linux)



To create the AMI or snapshot of your instance.

1. Choose your instance for which you want to create and AMI(Amazon Machine images).Later on you can launch the instance of same configuration by choosing the option launch by AMI.



2. After creating the AMI you can see your all AMI by clickin AMIs on the right side and later on you can launch instances by these AMIs.

- Instance types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances New
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations
- ▼ Images
 - AMIs** New
 - AMI Catalog
- ▼ Elastic Block Store
 - Volumes New
 - Snapshots New
 - Lifecycle Manager New
- ▼ Network & Security

Amazon Machine Images (AMIs) (2) [Info](#)

Recycle Bin

EC2 Image Builder

Actions ▼

Launch instance from AMI

Owned by me ▼

< 1 > ⚙

<input type="checkbox"/>	Name ▼	AMI ID ▼	AMI name ▼	Source ▼	Owner
<input type="checkbox"/>	-	ami-05de0fc509e15c5fc	bk_a-1	776543188516/bk_a-1	776543188516
<input type="checkbox"/>	-	ami-08ffe7ca74166cb50	amit_3	776543188516/amit_3	776543188516

Select an AMI ⚙ X