

windows-linux-linux

Step 1: launch 2 linux instances in Windows 1.create

1st instance:

Name and tags [Info](#)

Name

source12

[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

Q


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Quick Start

Amazon Linux

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Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Give Key pair name and file format is .pem

Key pair name

Key pairs allow you to connect to your instance securely.

The name can include upto 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](#)

Cancel

Create key pair

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-17' 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



Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage



Add new volume

0 x File systems

Edit

Software Image (AMI)

Amazon Linux 2023 AMI 2023.1.2...[read more](#)
ami-05548f9cecf47b442

Virtual server type (instance type)

t2.micro

Firewall (security group)

Cancel

Launch instance

2.create 2nd 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](#)

▼ 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



[Browse more AMIs](#)

Including AMIs from
AWS, Marketplace and
the Community

Give name of key pair and file format is .pem

Create key pair

Key pair name

Key pairs allow you to connect to your instance securely.

target123

The name can include upto 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

Cancel

Create key pair

your instance.

☒ Create security group

☐ Select existing security group

We'll create a new security group called 'launch-wizard-18' 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

Add new volume

0 x File systems

Edit

Virtual server type (instance type)
t2.micro

Firewall (security group)

Cancel

Launch instance

Review commands

► Advanced details

Info

Click on Launch instance.

Our 2 instances successfully launched.

Instances (2) Info

Refresh

Connect

Instance state ▾

Actions ▾

Launch instances ▾

Find instance by attribute or tag (case-sensitive)

< 1 >

⚙

<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability zone
<input type="checkbox"/>	source12	i-03c16cddaeabdeb3c	<div>Running</div>	t2.micro	<div>2/2 checks passed</div>	No alarms +	us-east-1a
<input type="checkbox"/>	target123	i-05ca213b09e1b4034	<div>Running</div>	t2.micro	<div>2/2 checks passed</div>	No alarms +	us-east-1a

Step 2:

We are going from source12 to target123

Select the source 12 checkbox and click on connect

Instances (1/2) Info

Refresh

Connect

Instance state ▾

Actions ▾

Launch instances ▾

Find instance by attribute or tag (case-sensitive)

< 1 >

⚙

<div><input checked="" type="checkbox"/></div>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability zone
<div><input checked="" type="checkbox"/></div>	source12	i-03c16cddaeabdeb3c	<div><div>Running</div><div>🔍🔍</div></div>	t2.micro	<div><div>2/2 checks passed</div></div>	No alarms <div>+</div>	us-east-1a
<div><input type="checkbox"/></div>	target123	i-05ca213b09e1b4034	<div><div>Running</div><div>🔍🔍</div></div>	t2.micro	<div><div>2/2 checks passed</div></div>	No alarms <div>+</div>	us-east-1a

Click on connect

Connect to instance Info

Connect to your instance i-03c16cddaeabdeb3c (source12) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-03c16cddaeabdeb3c (source12)

Connection Type

☒ Connect using EC2 Instance Connect

Connect using the EC2 Instance Connect browser-based client, with a public IPv4 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 IP address

3.88.116.12

User name

Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ec2-user.

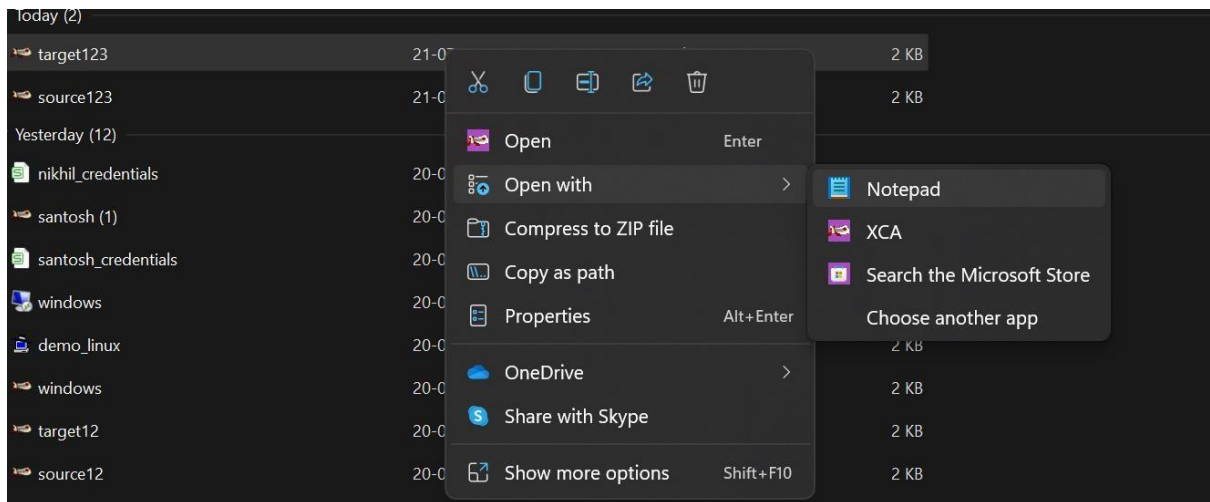
ec2-user

Note: In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

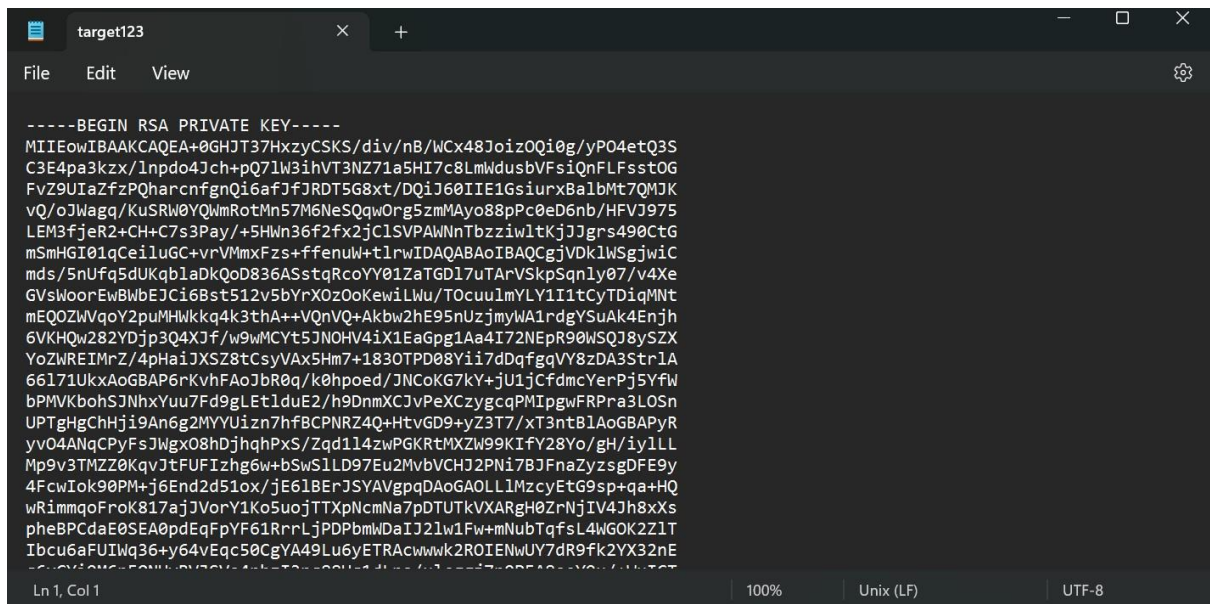
Cancel

Connect

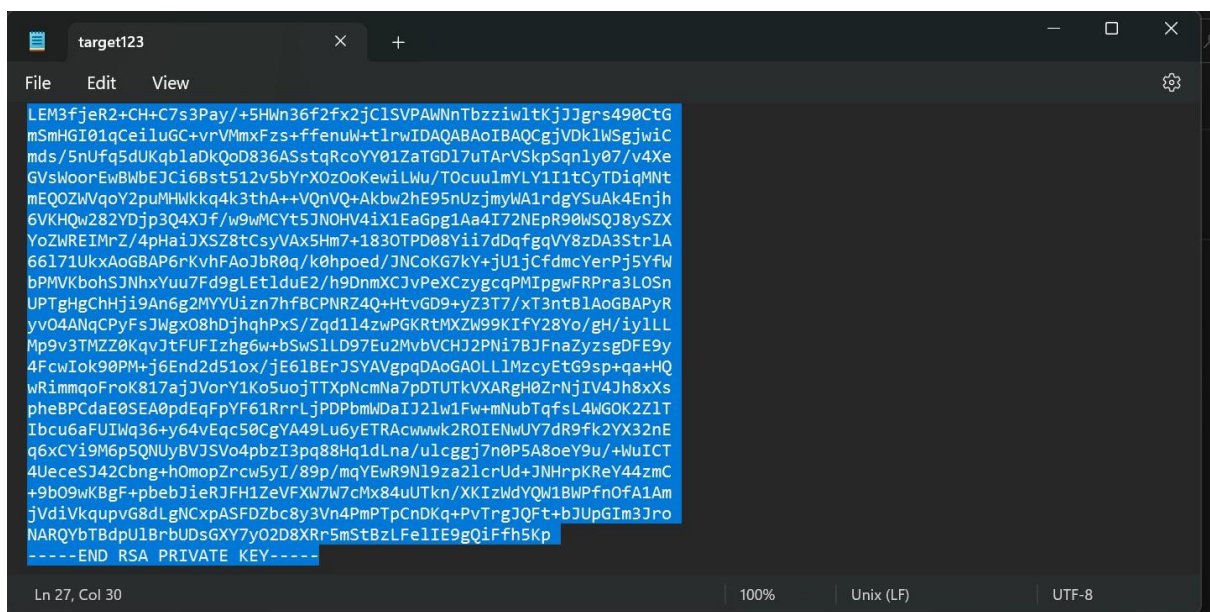
Your one linux server is ready in my case is source12



After opening you get this RSA private key



Copy this



Paste on your after nano command

```
GNU nano 5.8
heBPCdaE0SEA0pdEqFpYF61RrrLjPDPbmWDaIJ2lw1Fw+mNubTqfsL4WGOK2ZlT
bcu6aFUIWq36+y64vEqc50CgYA49Lu6yETRACwwwk2ROIENwUY7dR9fk2YX32nE
6xCYi9M6p5QNUyBVJSVo4pbzI3pq88Hq1dLna/ulcggj7n0P5A8oeY9u/+WuICT
UeceSJ42Cbng+hOmopZrcw5yI/89p/mqYEwR9Nl9za2lcrUd+JNHrpKReY44zmC
9bO9wKBgF+pbebJieRJFH1ZeVFXW7W7cMx84uUTkn/XKIzWdYQW1BWPfnOfA1Am
VdiVkpupvG8dLgNCxpASFDZbc8y3Vn4PmPTpCnDKq+PvTrgJQFt+bJUpGIm3Jro
ARQYbTBdpUlBrbUDsGXY7yO2D8XRr5mStBzLFelIE9gQiFfh5Kp
-----END RSA PRIVATE KEY-----

Help      ^O Write Out  ^W Where Is  ^K Cut       ^T E
Exit      ^R Read File  ^\ Replace   ^U Paste     ^J J
```

Click Ctrl+x

```
GNU nano 5.8
pheBPCdaE0SEA0pdEqFpYF61RrrLjPDPbmWDaIJ2lw1Fw+mNubTqfsL4WGOK2ZlT
Ibcu6aFUIWq36+y64vEqc50CgYA49Lu6yETRACwwwk2ROIENwUY7dR9fk2YX32nE
q6xCYi9M6p5QNUyBVJSVo4pbzI3pq88Hq1dLna/ulcggj7n0P5A8oeY9u/+WuICT
4UeceSJ42Cbng+hOmopZrcw5yI/89p/mqYEwR9Nl9za2lcrUd+JNHrpKReY44zmC
+9bO9wKBgF+pbebJieRJFH1ZeVFXW7W7cMx84uUTkn/XKIzWdYQW1BWPfnOfA1Am
jVdiVkpupvG8dLgNCxpASFDZbc8y3Vn4PmPTpCnDKq+PvTrgJQFt+bJUpGIm3Jro
NARQYbTBdpUlBrbUDsGXY7yO2D8XRr5mStBzLFelIE9gQiFfh5Kp
-----END RSA PRIVATE KEY-----

Save modified buffer?
Y Yes
N No      ^C Cancel
```

type yes

they ask your file name so write the file name same as the another .pem file name with extension

my target pem file is target123 so I write as taget123.pem


```

GNU nano 5.8                                     New Buffer
pHeBPCdaE0SEA0pdEqFpYF61RrrLjPDPbmWDaIJ21w1Fw+mNubTqfsL4WGOK2Z1T
Ibcu6aFUIWq36+y64vEqc50CgYA49Lu6yETRAcwwk2ROIENwUY7dR9fk2YX32nE
q6xCYi9M6p5QNUyBVJSVo4pbzI3pq88Hq1dLna/ulcggj7n0P5A8oeY9u/+WuICT
4UeceSJ42Cbng+hOmopZrcw5yI/89p/mqYEwR9N19za21crUd+JNHrpKReY44zmC
+9b09wKBGf+pbebjieRJFH1ZeVFXW7W7cMx84uUTkn/XKIzWdYQW1BWPfnOfA1Am
jVdiVkpupvG8dLgNCxpASFDZbc8y3Vn4PmPTpCnDKq+PvTrgJQFt+bJUUpGIm3Jro
NARQYbTBdpU1BrbUDsGXY7yO2D8XRr5mStBzLFelIE9gQiFfh5Kp
-----END RSA PRIVATE KEY-----

File Name to Write: target123.pem
^G Help          M-D DOS Format      M-A Append
^C Cancel        M-M Mac Format      M-E Prepend

```

Click on enter and for checking your file present type ls command

-after that type chmod 400 (file name of another linux with extension)

```

[ec2-user@ip-172-31-89-173 ~]$ nano
[ec2-user@ip-172-31-89-173 ~]$ ls
target123.pem
[ec2-user@ip-172-31-89-173 ~]$ chmod 400 taget123.pem
chmod: cannot access 'taget123.pem': No such file or directory
[ec2-user@ip-172-31-89-173 ~]$ chmod 400 target123.pem
[ec2-user@ip-172-31-89-173 ~]$

```

Go to target123 and copy target private add.

Instance summary for i-05ca213b09e1b4034 (target123) Info

Updated less than a minute ago

Connect

Instance state

▼

Actions

▼

Instance ID

i-05ca213b09e1b4034 (target123)

Public IPv4 address

44.206.224.187 | [open address](#)

Instance state

Running

Private IPv4 address copied

IPv6 address

-

Public IPv4 DNS

ec2-44-206-224-187.compute-1.amazonaws.com | [open address](#)

Our target user is ec2-user

User name

Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ec2-user.

ec2-user

Type command: ssh -i (target pem file name) ec-user@(target private IP address)

```

[ec2-user@ip-172-31-89-173 ~]$ chmod 400 taget123.pem
chmod: cannot access 'taget123.pem': No such file or directory
[ec2-user@ip-172-31-89-173 ~]$ chmod 400 target123.pem
[ec2-user@ip-172-31-89-173 ~]$ ssh -i target123.pem ec2-user@172.31.80.150

```

Type yes

```
[ec2-user@ip-172-31-89-173 ~]$ ssh -i target123.pem ec2-user@172.31.80.150
The authenticity of host '172.31.80.150 (172.31.80.150)' can't be established.
ED25519 key fingerprint is SHA256:ei7ZuXVwa/0Rr4P9QlgSZZsqhRSPMjbq0+Obvu7Hzh4.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

Thus you launch another linux machine in linux machine

```

chmod: cannot access 'target123.pem': No such file or directory
[ec2-user@ip-172-31-89-173 ~]$ chmod 400 target123.pem
[ec2-user@ip-172-31-89-173 ~]$ ssh -i target123.pem ec2-user@172.31.80.150
The authenticity of host '172.31.80.150 (172.31.80.150)' can't be established.
ED25519 key fingerprint is SHA256:ei7ZuXVwa/0Rr4P9QlgSZZsqhRSPMjbq0+Obvu7Hzh4.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.31.80.150' (ED25519) to the list of known hosts.

      #_
    ~\  #####          Amazon Linux 2023
  ~ ~ \  #####\
  ~ ~  _#####\
  ~ ~   \###|
  ~ ~    \#/
  ~ ~     V~' '->      https://aws.amazon.com/linux/amazon-linux-2023
  ~ ~
  ~ ~
  ~ ~ . _
  ~ ~ _/
  ~ ~ _/m/'
[ec2-user@ip-172-31-80-150 ~]$

```

Step 4:

Deploy the website on this linux server

You need to update and upgrade

```
[ec2-user@ip-172-31-80-150 ~]$ sudo yum update -y
Last metadata expiration check: 0:19:49 ago on Thu Jul 20 19:33:48 2023.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-80-150 ~]$ sudo yum upgrade -y
```

Setup httpd

```
[ec2-user@ip-172-31-80-150 ~]$ sudo yum upgrade -y
Last metadata expiration check: 0:20:11 ago on Thu Jul 20 19:33:48 2023.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-80-150 ~]$ sudo yum install httpd
```

If status is inactive :in my case is inactive

-sudo systemctl enable httpd

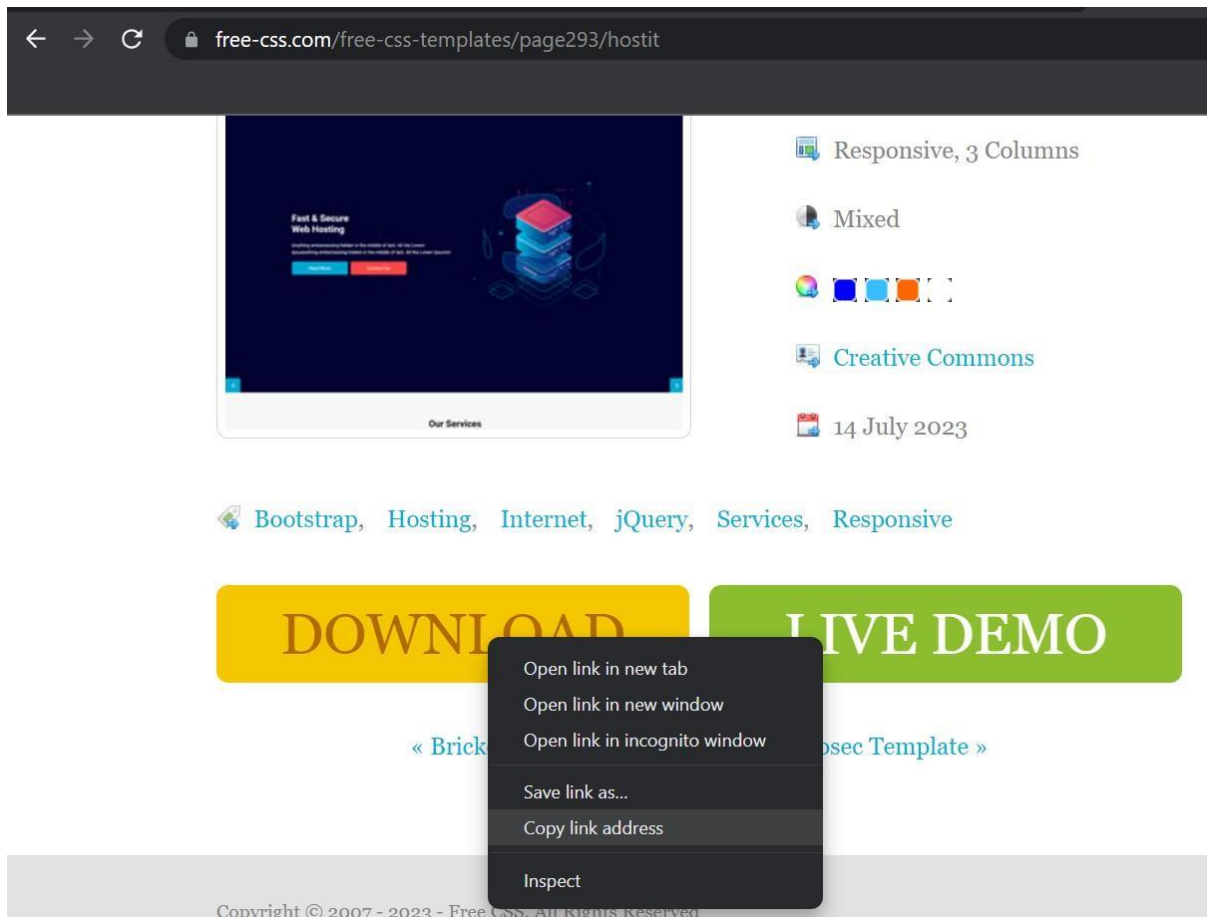
-sudo systemctl start httpd

```
complete:
[ec2-user@ip-172-31-80-150 ~]$ systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:httpd.service(8)
[ec2-user@ip-172-31-80-150 ~]$ systemctl enable httpd
Failed to enable unit: Access denied
[ec2-user@ip-172-31-80-150 ~]$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-80-150 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-80-150 ~]$
```

My status is active and your also

```
[ec2-user@ip-172-31-80-150 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-80-150 ~]$ systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Thu 2023-07-20 19:55:31 UTC; 22s ago
     Docs: man:httpd.service(8)
  Main PID: 25892 (httpd)
    Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
    Tasks: 177 (limit: 1114)
   Memory: 12.8M
      CPU: 77ms
   CGroup: /system.slice/httpd.service
           └─25892 /usr/sbin/httpd -DFOREGROUND
             └─25893 /usr/sbin/httpd -DFOREGROUND
               └─25894 /usr/sbin/httpd -DFOREGROUND
                 └─25895 /usr/sbin/httpd -DFOREGROUND
                   └─25896 /usr/sbin/httpd -DFOREGROUND
```

Go to any free template page and right click on download and copy link address



I created a temp file

And paste the link after sudo wget

This will download the file in zip format in temp file

```
Jul 20 19:55:31 ip-172-31-80-150.ec2.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Jul 20 19:55:31 ip-172-31-80-150.ec2.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
[ec2-user@ip-172-31-80-150 ~]$ mkdir temp
[ec2-user@ip-172-31-80-150 ~]$ ls
temp
[ec2-user@ip-172-31-80-150 ~]$ cd temp
[ec2-user@ip-172-31-80-150 temp]$ sudo wget https://www.free-css.com/assets/files/free-css-templates/download/page293/hostit.zip
--2023-07-20 19:58:22-- https://www.free-css.com/assets/files/free-css-templates/download/page293/hostit.zip
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:8d8:100f:f000::28f
Connecting to www.free-css.com (www.free-css.com)|217.160.0.242|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 906218 (885K) [application/zip]
Saving to: 'hostit.zip'

hostit.zip
100%[=====>] 884.98K 1.28MB/s in 0.7s

2023-07-20 19:58:23 (1.28 MB/s) - 'hostit.zip' saved [906218/906218]

[ec2-user@ip-172-31-80-150 temp]$
```

You first check file type -ls

Unzip that file type : sudo unzip (file name)

```
2023-07-20 19:58:23 (1.28 MB/s) - 'hostit.zip' saved [906218/906218]

[ec2-user@ip-172-31-80-150 temp]$ ls
hostit.zip
[ec2-user@ip-172-31-80-150 temp]$ sudo unzip hostis.zip
unzip: cannot find or open hostis.zip, hostis.zip.zip or hostis.zip.ZIP.
[ec2-user@ip-172-31-80-150 temp]$ sudo unzip hostit.zip
Archive: hostit.zip
```

Check file :-ls

-change drive to that unzip file (in my case is hostit-html)

-move that file to our /var/www/html

```
inflatng: hostit.html/price.html
inflating: hostit-html/service.html
[ec2-user@ip-172-31-80-150 temp]$ ls
hostit-html  hostit.zip
[ec2-user@ip-172-31-80-150 temp]$ cd hostit-html
[ec2-user@ip-172-31-80-150 hostit-html]$ sudo mv * /var/www/html
[ec2-user@ip-172-31-80-150 hostit-html]$ cd /var/www/html
[ec2-user@ip-172-31-80-150 html]$ ls
about.html  contact.html  css  fonts  images  index.html  js  price.html  service.html
[ec2-user@ip-172-31-80-150 html]$
```

Copy public IP of taget123

Instance summary for i-05ca213b09e1b4034 (target123) Info

Updated less than a minute ago

Buttons: Refresh, Connect, Instance state

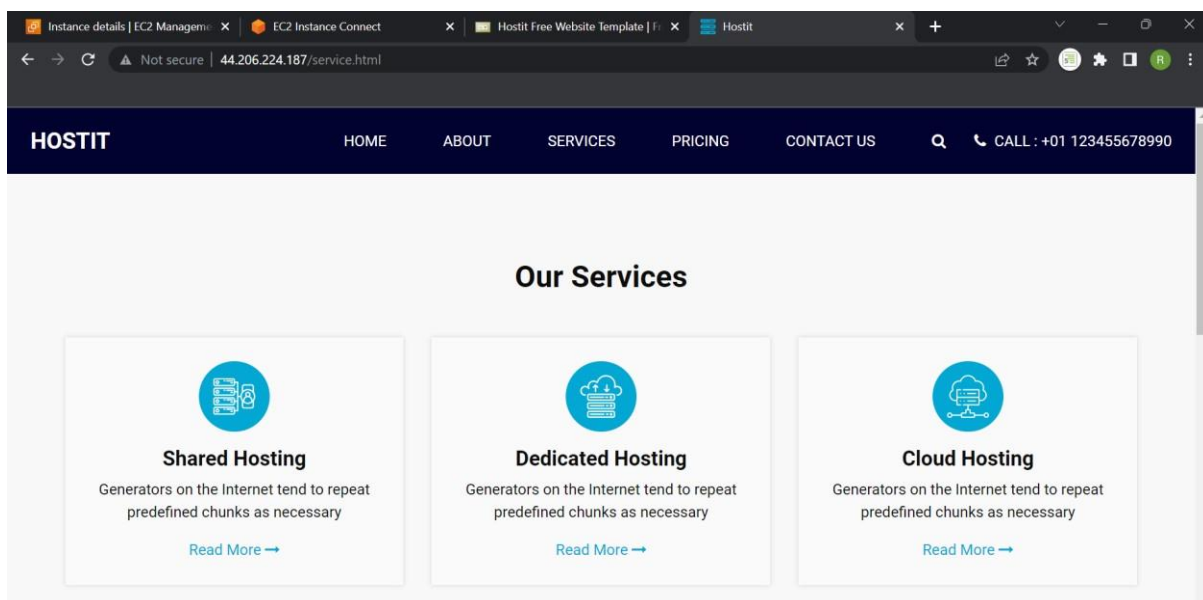
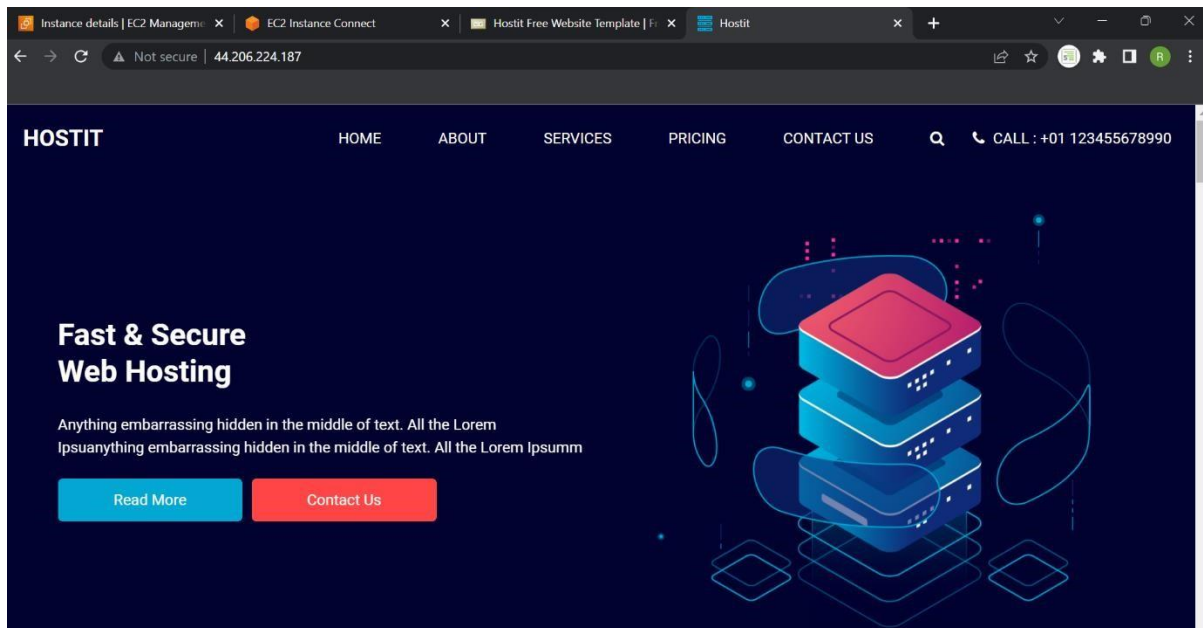
Public IPv4 address copied

Instance ID	Public IPv4 address	Private IPv4 addresses
i-05ca213b09e1b4034 (target123)	44.206.224.187 open address	172.31.80.150

Instance state: **Running**

Public IPv4 DNS: ec2-44-206-224-187.compute-1.amazonaws.com | [open address](#)

Paste on chrome tab



For logout from server type exit .

```
[ec2-user@ip-172-31-80-150 temp]$ cd hostit-html
[ec2-user@ip-172-31-80-150 hostit-html]$ sudo mv * /var/www/html
[ec2-user@ip-172-31-80-150 hostit-html]$ cd /var/www/html
[ec2-user@ip-172-31-80-150 html]$ ls
about.html  contact.html  css  fonts  images  index.html  js  price.html  service.html
[ec2-user@ip-172-31-80-150 html]$ exit
logout
Connection to 172.31.80.150 closed.
[ec2-user@ip-172-31-89-173 ~]$
```