

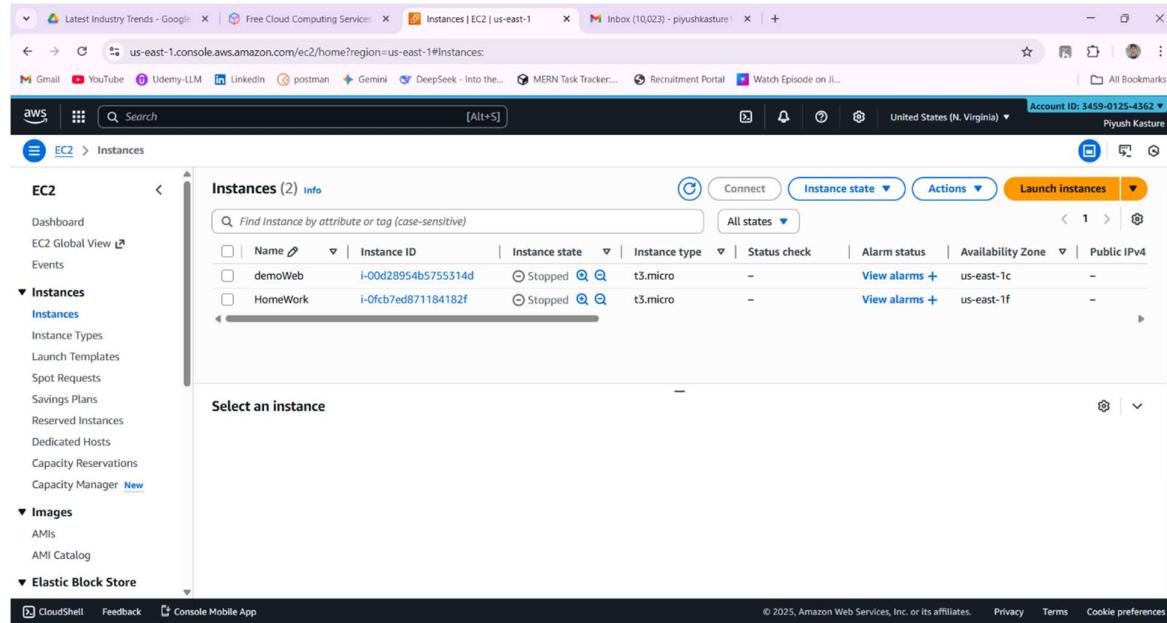
**Name: Piyush Kasture**

**Module Name: Latest Industry Trends**

**PRN: 2509401147003**

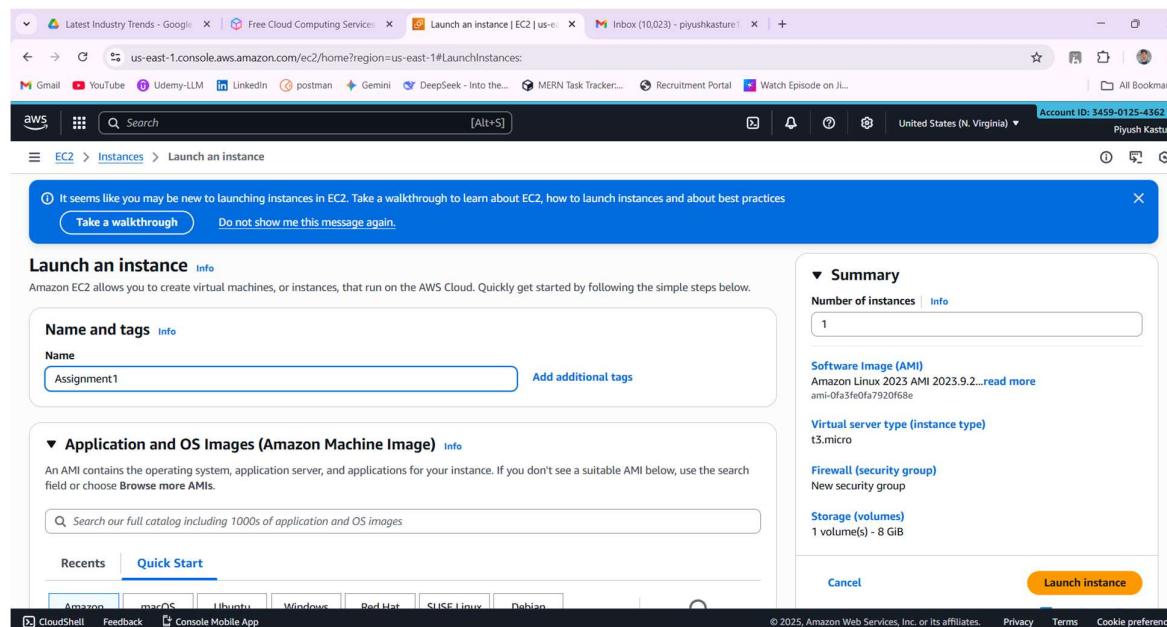
## **Assignment No. 1**

### **1) Create instance**



The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with options like Dashboard, EC2 Global View, Events, Instances (selected), Images, and Elastic Block Store. The main area displays a table titled 'Instances (2) Info' with columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4. Two instances are listed: 'demoWeb' (Instance ID: i-00d2b954b5755314d, State: Stopped) and 'Homework' (Instance ID: i-0fc7ed871184182f, State: Stopped). Below the table, there's a section titled 'Select an instance'.

### **Launch Instances**



The screenshot shows the 'Launch an instance' wizard. At the top, there's a message: 'It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices'. Below it are 'Take a walkthrough' and 'Do not show me this message again' buttons. The main steps are:

- Launch an instance**: A summary section showing 1 instance, AMI 'Amazon Linux 2023 AMI 2023.9.2...', instance type 't3.micro', and storage '1 volume(s) - 8 GiB'. It also lists 'Virtual server type (instance type)' as 't3.micro' and 'Firewall (security group)' as 'New security group'.
- Name and tags**: Fields for 'Name' (Assignment1) and 'Add additional tags'.
- Application and OS Images (Amazon Machine Image)**: A search bar and a list of OS images including Amazon, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, and Debian.

At the bottom, there are 'Cancel' and 'Launch instance' buttons.

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Gmail YouTube Udemy-LLM LinkedIn postman Gemini DeepSeek - Into the... MERN Task Tracker... Recruitment Portal Watch Episode on JI... All Bookmarks Account ID: 3459-0125-4362 Piyush Kasture

EC2 Instances Launch an instance

**Key pair name - required**: homeWork [Create new key pair](#)

**Network settings** [Info](#)

**Network** [Info](#): vpc-00378ede7826c4216

**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-3' with the following rules:

Allow SSH traffic from Anywhere 0.0.0.0/0

Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server

**Summary**

Number of instances: 1

**Software Image (AMI)**: Amazon Linux 2023 AMI 2023.9.2...read more ami-0fa3fe0fa792f68e

**Virtual server type (instance type)**: t3.micro

**Firewall (security group)**: New security group

**Storage (volumes)**: 1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#) [Preview code](#)

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

Gmail YouTube Udemy-LLM LinkedIn postman Gemini DeepSeek - Into the... MERN Task Tracker... Recruitment Portal Watch Episode on JI... All Bookmarks Account ID: 3459-0125-4362 Piyush Kasture

EC2 Instances

**Instances (1/3) [Info](#)**

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
demoWeb	i-00d28954b5755314d	Stopped	t3.micro	-	<a href="#">View alarms</a> +	us-east-1c	-
HomeWork	i-0fc7ed871184182f	Stopped	t3.micro	-	<a href="#">View alarms</a> +	us-east-1f	-
<b>Assignment1</b>	<b>i-05cda383359945206</b>	<b>Running</b>	<b>t3.micro</b>	<b>Initializing</b>	<a href="#">View alarms</a> +	us-east-1f	ec2-34-238-

**i-05cda383359945206 (Assignment1)**

[Details](#) Status and alarms Monitoring Security Networking Storage Tags

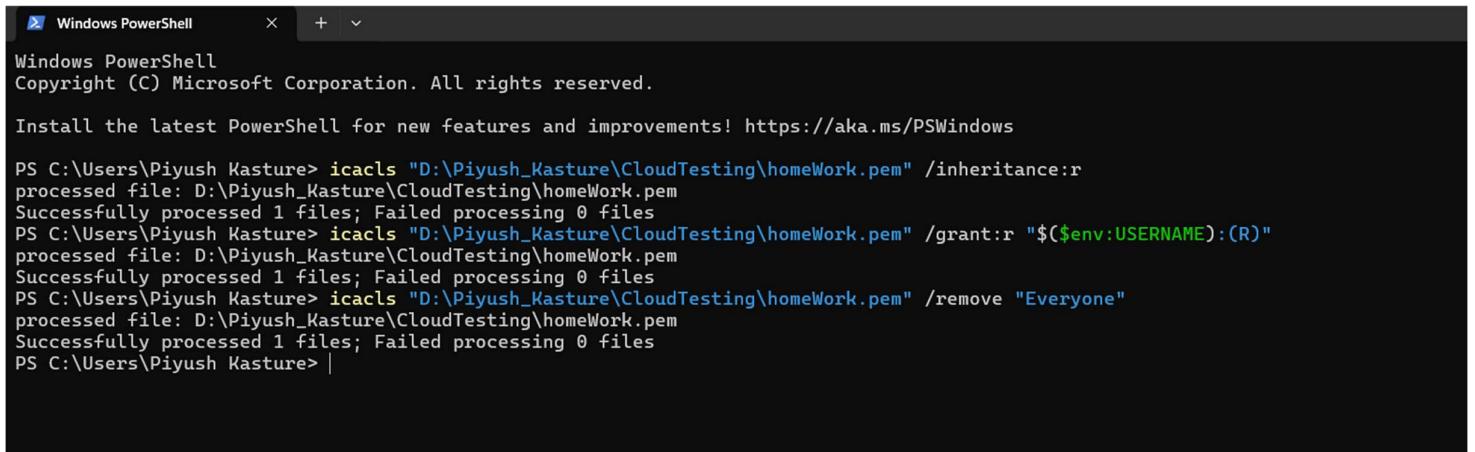
**Instance summary** [Info](#)

Instance ID	Public IPv4 address	Private IPv4 addresses
i-05cda383359945206	34.238.192.36   <a href="#">open address</a>	172.31.74.253
IPv6 address	Instance state	Public DNS
-	<a href="#">Running</a>	ec2-34-238-192-36.compute-1.amazonaws.com   <a href="#">open</a>

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Get .pem file save on local machine. Change permissions

- icacls "inst\_WebServer.pem" /inheritance:r
- icacls "inst\_WebServer.pem" /grant:r "\$(env:USERNAME):(R)"
- icacls "inst\_WebServer.pem" /remove "Everyone"



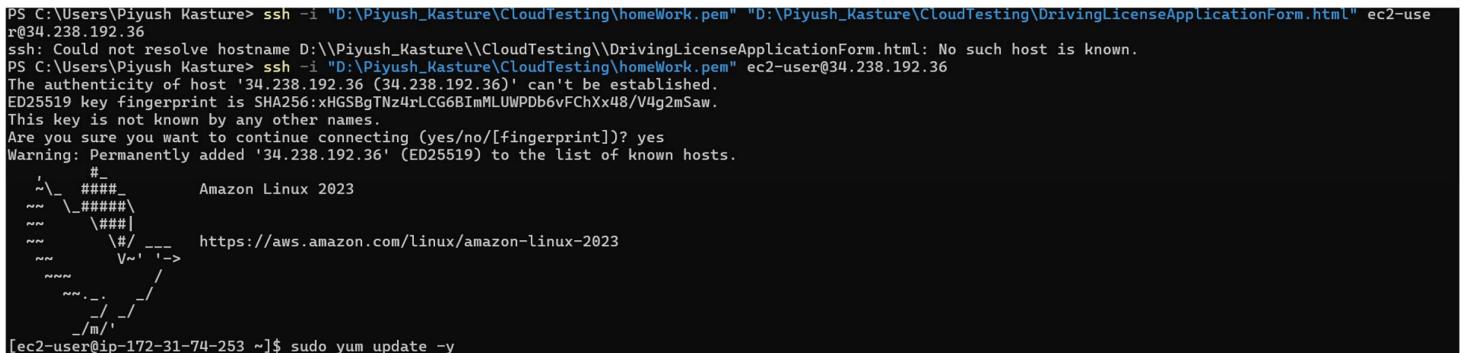
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Piyush_Kasture> icacls "D:\Piyush_Kasture\CloudTesting\homeWork.pem" /inheritance:r
processed file: D:\Piyush_Kasture\CloudTesting\homeWork.pem
Successfully processed 1 files; Failed processing 0 files
PS C:\Users\Piyush_Kasture> icacls "D:\Piyush_Kasture\CloudTesting\homeWork.pem" /grant:r "$(env:USERNAME):(R)"
processed file: D:\Piyush_Kasture\CloudTesting\homeWork.pem
Successfully processed 1 files; Failed processing 0 files
PS C:\Users\Piyush_Kasture> icacls "D:\Piyush_Kasture\CloudTesting\homeWork.pem" /remove "Everyone"
processed file: D:\Piyush_Kasture\CloudTesting\homeWork.pem
Successfully processed 1 files; Failed processing 0 files
PS C:\Users\Piyush Kasture> |
```

From local machine (powershell) connect using ssh;

- ssh -i " LOCATION OF .pem file" "SOURCE LOCATION OF HTML FILE" ec2-user@PUBLIC IP ADDRESS



```
PS C:\Users\Piyush_Kasture> ssh -i "D:\Piyush_Kasture\CloudTesting\homeWork.pem" "D:\Piyush_Kasture\CloudTesting\DrivingLicenseApplicationForm.html" ec2-user@34.238.192.36
ssh: Could not resolve hostname D:\\Piyush_Kasture\\\\CloudTesting\\\\DrivingLicenseApplicationForm.html: No such host is known.
PS C:\Users\Piyush_Kasture> ssh -i "D:\Piyush_Kasture\CloudTesting\homeWork.pem" ec2-user@34.238.192.36
The authenticity of host '34.238.192.36 (34.238.192.36)' can't be established.
ED25519 key fingerprint is SHA256:xHGSBgTNz4rLCG6BImMLUWPDb6vFChXx48/V4g2mSaw.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '34.238.192.36' (ED25519) to the list of known hosts.

#_ _###_ Amazon Linux 2023
~\_\_###\_
~~ \###|
~~ \###| https://aws.amazon.com/linux/amazon-linux-2023
~~ \#/ `-->
~~ \`-'`-->
~~ \_-'`-->
~~ \_/'`-->
~~ \_/'`-->
/m/'`-->

[ec2-user@ip-172-31-74-253 ~]$ sudo yum update -y
```

Install Apache server and start:

- sudo yum update -y
- sudo yum install -y httpd

- sudo systemctl enable httpd
  - sudo systemctl start httpd
- # check status
- sudo systemctl status httpd

```
[ec2-user@ip-172-31-74-253 ~]$ sudo yum update -y
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-74-253 ~]$ sudo yum install -y httpd
Last metadata expiration check: 0:00:17 ago on Sun Nov 30 07:18:35 2025.
Dependencies resolved.
=====
Package           Architecture      Version       Repository   Size
=====
Installing:
  httpd           x86_64          2.4.65-1.amzn2023.0.2      amazonlinux  47 k
Installing dependencies:
  apr             x86_64          1.7.5-1.amzn2023.0.4      amazonlinux 129 k
  apr-util        x86_64          1.6.3-1.amzn2023.0.2      amazonlinux  97 k
  apr-util-lmdb   x86_64          1.6.3-1.amzn2023.0.2      amazonlinux  13 k
  generic-logos-httdp noarch        18.0.0-12.amzn2023.0.3    amazonlinux  19 k
  httpd-core      x86_64          2.4.65-1.amzn2023.0.2      amazonlinux 1.4 M
  httpd-filesystem noarch        2.4.65-1.amzn2023.0.2      amazonlinux  13 k
  httpd-tools     x86_64          2.4.65-1.amzn2023.0.2      amazonlinux  81 k
  libbrotli       x86_64          1.0.9-4.amzn2023.0.2      amazonlinux 315 k
  mailcap         noarch        2.1.49-3.amzn2023.0.3      amazonlinux  33 k
Installing weak dependencies:
  apr-util-openssl x86_64          1.6.3-1.amzn2023.0.2      amazonlinux  15 k
  mod_http2       x86_64          2.0.27-1.amzn2023.0.3      amazonlinux 166 k
  mod_lua         x86_64          2.4.65-1.amzn2023.0.2      amazonlinux  60 k
=====
Transaction Summary
=====
Install 13 Packages

Total download size: 2.4 M
Installed size: 6.9 M
Downloading Packages:
=====
Total download size: 2.4 M
Installed size: 6.9 M
Downloading Packages:
=====
(1/13): apr-1.7.5-1.amzn2023.0.4.x86_64.rpm
(2/13): apr-util-lmdb-1.6.3-1.amzn2023.0.2.x86_64.rpm
(3/13): apr-util-1.6.3-1.amzn2023.0.2.x86_64.rpm
(4/13): apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64.rpm
(5/13): generic-logos-httdp-18.0.0-12.amzn2023.0.3.noarch.rpm
(6/13): httpd-2.4.65-1.amzn2023.0.2.x86_64.rpm
(7/13): httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch.rpm
(8/13): httpd-tools-2.4.65-1.amzn2023.0.2.x86_64.rpm
(9/13): httpd-core-2.4.65-1.amzn2023.0.2.x86_64.rpm
(10/13): mailcap-2.1.49-3.amzn2023.0.3.noarch.rpm
(11/13): libbrotli-1.0.9-4.amzn2023.0.2.x86_64.rpm
(12/13): mod_http2-2.0.27-1.amzn2023.0.3.x86_64.rpm
(13/13): mod_lua-2.4.65-1.amzn2023.0.2.x86_64.rpm
=====
Total
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing : 1/13
  Installing : apr-1.7.5-1.amzn2023.0.4.x86_64
  Installing : apr-util-lmdb-1.6.3-1.amzn2023.0.2.x86_64
  Installing : apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64
  Installing : apr-util-1.6.3-1.amzn2023.0.2.x86_64
  Installing : mailcap-2.1.49-3.amzn2023.0.3.noarch
  Installing : httpd-tools-2.4.65-1.amzn2023.0.2.x86_64
  Installing : libbrotli-1.0.9-4.amzn2023.0.2.x86_64
  Running scriptlet: httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch
  Installing : httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch
  Installing : httpd-core-2.4.65-1.amzn2023.0.2.x86_64
  Installing : mod_http2-2.0.27-1.amzn2023.0.3.x86_64
  Installing : mod_lua-2.4.65-1.amzn2023.0.2.x86_64
  Installing : generic-logos-httdp-18.0.0-12.amzn2023.0.3.noarch
  Installing : httpd-2.4.65-1.amzn2023.0.2.x86_64
=====
192 kB/s | 29 kB     00:00
306 kB/s | 13 kB     00:00
2.0 MB/s | 97 kB     00:00
661 kB/s | 15 kB     00:00
819 kB/s | 19 kB     00:00
2.1 MB/s | 47 kB     00:00
572 kB/s | 13 kB     00:00
2.9 MB/s | 81 kB     00:00
30 MB/s | 1.4 MB    00:00
1.5 MB/s | 33 kB     00:00
9.7 MB/s | 315 kB    00:00
7.4 MB/s | 166 kB    00:00
2.5 MB/s | 60 kB     00:00
13 MB/s | 2.4 MB    00:00
3.1 MB/s | 129 kB    00:00
2.0 MB/s | 97 kB    00:00
661 kB/s | 15 kB    00:00
819 kB/s | 19 kB    00:00
2.1 MB/s | 47 kB    00:00
572 kB/s | 13 kB    00:00
2.9 MB/s | 81 kB    00:00
30 MB/s | 1.4 MB    00:00
1.5 MB/s | 33 kB    00:00
9.7 MB/s | 315 kB   00:00
7.4 MB/s | 166 kB   00:00
2.5 MB/s | 60 kB   00:00
13 MB/s | 2.4 MB   00:00
1/13
2/13
3/13
4/13
5/13
6/13
7/13
8/13
9/13
10/13
11/13
12/13
13/13
```

```
Total download size: 2.4 M
Installed size: 6.9 M
Downloading Packages:
=====
Total download size: 2.4 M
Installed size: 6.9 M
Downloading Packages:
=====
(1/13): apr-1.7.5-1.amzn2023.0.4.x86_64.rpm
(2/13): apr-util-lmdb-1.6.3-1.amzn2023.0.2.x86_64.rpm
(3/13): apr-util-1.6.3-1.amzn2023.0.2.x86_64.rpm
(4/13): apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64.rpm
(5/13): generic-logos-httdp-18.0.0-12.amzn2023.0.3.noarch.rpm
(6/13): httpd-2.4.65-1.amzn2023.0.2.x86_64.rpm
(7/13): httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch.rpm
(8/13): httpd-tools-2.4.65-1.amzn2023.0.2.x86_64.rpm
(9/13): httpd-core-2.4.65-1.amzn2023.0.2.x86_64.rpm
(10/13): mailcap-2.1.49-3.amzn2023.0.3.noarch.rpm
(11/13): libbrotli-1.0.9-4.amzn2023.0.2.x86_64.rpm
(12/13): mod_http2-2.0.27-1.amzn2023.0.3.x86_64.rpm
(13/13): mod_lua-2.4.65-1.amzn2023.0.2.x86_64.rpm
=====
Total
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing : 1/13
  Installing : apr-1.7.5-1.amzn2023.0.4.x86_64
  Installing : apr-util-lmdb-1.6.3-1.amzn2023.0.2.x86_64
  Installing : apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64
  Installing : apr-util-1.6.3-1.amzn2023.0.2.x86_64
  Installing : mailcap-2.1.49-3.amzn2023.0.3.noarch
  Installing : httpd-tools-2.4.65-1.amzn2023.0.2.x86_64
  Installing : libbrotli-1.0.9-4.amzn2023.0.2.x86_64
  Running scriptlet: httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch
  Installing : httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch
  Installing : httpd-core-2.4.65-1.amzn2023.0.2.x86_64
  Installing : mod_http2-2.0.27-1.amzn2023.0.3.x86_64
  Installing : mod_lua-2.4.65-1.amzn2023.0.2.x86_64
  Installing : generic-logos-httdp-18.0.0-12.amzn2023.0.3.noarch
  Installing : httpd-2.4.65-1.amzn2023.0.2.x86_64
=====
13 MB/s | 2.4 MB    00:00
3.1 MB/s | 129 kB    00:00
306 kB/s | 13 kB    00:00
2.0 MB/s | 97 kB    00:00
661 kB/s | 15 kB    00:00
819 kB/s | 19 kB    00:00
2.1 MB/s | 47 kB    00:00
572 kB/s | 13 kB    00:00
2.9 MB/s | 81 kB    00:00
30 MB/s | 1.4 MB    00:00
1.5 MB/s | 33 kB    00:00
9.7 MB/s | 315 kB   00:00
7.4 MB/s | 166 kB   00:00
2.5 MB/s | 60 kB   00:00
13 MB/s | 2.4 MB   00:00
1/13
2/13
3/13
4/13
5/13
6/13
7/13
8/13
9/13
10/13
11/13
12/13
13/13
```

```

Windows PowerShell * + ~
Running transaction
Preparing : 1/1
Installing : apr-1.7.5-1.amzn2023.0.4.x86_64 1/13
Installing : apr-util-lmdb-1.6.3-1.amzn2023.0.2.x86_64 2/13
Installing : apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64 3/13
Installing : apr-util-1.6.3-1.amzn2023.0.2.x86_64 4/13
Installing : mailcap-2.1.49-3.amzn2023.0.3.noarch 5/13
Installing : httpd-tools-2.4.65-1.amzn2023.0.2.x86_64 6/13
Installing : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 7/13
Running scriptlet: httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch 8/13
Installing : httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch 8/13
Installing : httpd-core-2.4.65-1.amzn2023.0.2.x86_64 9/13
Installing : mod_http2-2.0.27-1.amzn2023.0.3.x86_64 10/13
Installing : mod_lua-2.4.65-1.amzn2023.0.2.x86_64 11/13
Installing : generic-logos-httplib-18.0.0-12.amzn2023.0.3.noarch 12/13
Installing : httpd-2.4.65-1.amzn2023.0.2.x86_64 13/13
Running scriptlet: httpd-2.4.65-1.amzn2023.0.2.x86_64 13/13
Verifying : apr-1.7.5-1.amzn2023.0.4.x86_64 1/13
Verifying : apr-util-1.6.3-1.amzn2023.0.2.x86_64 2/13
Verifying : apr-util-lmdb-1.6.3-1.amzn2023.0.2.x86_64 3/13
Verifying : apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64 4/13
Verifying : generic-logos-httplib-18.0.0-12.amzn2023.0.3.noarch 5/13
Verifying : httpd-2.4.65-1.amzn2023.0.2.x86_64 6/13
Verifying : httpd-core-2.4.65-1.amzn2023.0.2.x86_64 7/13
Verifying : httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch 8/13
Verifying : httpd-tools-2.4.65-1.amzn2023.0.2.x86_64 9/13
Verifying : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 10/13
Verifying : mailcap-2.1.49-3.amzn2023.0.3.noarch 11/13
Verifying : mod_http2-2.0.27-1.amzn2023.0.3.x86_64 12/13
Verifying : mod_lua-2.4.65-1.amzn2023.0.2.x86_64 13/13

Installed:
apr-1.7.5-1.amzn2023.0.4.x86_64      apr-util-1.6.3-1.amzn2023.0.2.x86_64
apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64  generic-logos-httplib-18.0.0-12.amzn2023.0.3.noarch
httpd-core-2.4.65-1.amzn2023.0.2.x86_64    httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch
libbrotli-1.0.9-4.amzn2023.0.2.x86_64     mailcap-2.1.49-3.amzn2023.0.3.noarch
mod_lua-2.4.65-1.amzn2023.0.2.x86_64

Complete!

```

```

[ec2-user@ip-172-31-74-253 ~]$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-74-253 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-74-253 ~]$ sudo systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Sun 2025-11-30 07:19:20 UTC; 11s ago
     Docs: man:httpd.service(8)
 Main PID: 25887 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec: 0 B/sec"
   Tasks: 177 (limit: 1053)
  Memory: 13.3M
    CPU: 65ms
   CGroup: /system.slice/httpd.service
           ├─25887 /usr/sbin/httpd -DFOREGROUND
           ├─25888 /usr/sbin/httpd -DFOREGROUND
           ├─25889 /usr/sbin/httpd -DFOREGROUND
           ├─25890 /usr/sbin/httpd -DFOREGROUND
           └─25891 /usr/sbin/httpd -DFOREGROUND

Nov 30 07:19:20 ip-172-31-74-253.ec2.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Nov 30 07:19:20 ip-172-31-74-253.ec2.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Nov 30 07:19:20 ip-172-31-74-253.ec2.internal httpd[25887]: Server configured, listening on: port 80

```

Copy index.html file to aws instance:

- scp -i "LOCATION OF .pem file" "SOURCE LOCATION OF HTML FILE" ec2-user@PUBLIC IP ADDRESS:/var/www/html

```
PS C:\Users\Piyush_Kasture> scp -i "C:\Users\asus-a15\piyush_kasture\.ssh\homeWork.pem" "D:\Piyush_Kasture\CloudTesting\DrivingLicenseApplicationForm.html" ec2-user@34.238.192.36:/var/www/html/
Warning: Identity file C:/Users/asus-a15/piyush_kasture/.ssh/homeWork.pem not accessible: No such file or directory.
ec2-user@34.238.192.36: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
C:\Windows\System32\OpenSSH\scp.exe: Connection closed
PS C:\Users\Piyush_Kasture> scp -i "C:\Users\asus-a15\piyush_kasture\.ssh\homeWork.pem" "D:\Piyush_Kasture\CloudTesting\DrivingLicenseApplicationForm.html" ec2-user@34.238.192.36:/var/www/html/
Warning: Identity file C:/Users/asus-a15/piyush_kasture/.ssh/homeWork.pem not accessible: No such file or directory.
ec2-user@34.238.192.36: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
C:\Windows\System32\OpenSSH\scp.exe: Connection closed
PS C:\Users\Piyush_Kasture> ssh -i "D:\Piyush_Kasture\CloudTesting\homeWork.pem" "D:\Piyush_Kasture\CloudTesting\DrivingLicenseApplicationForm.html" ec2-user@34.238.192.36
ssh: Could not resolve hostname D:\\\\Piyush_Kasture\\\\CloudTesting\\\\DrivingLicenseApplicationForm.html: No such host is known.
PS C:\Users\Piyush_Kasture> scp -v -i "D:\Piyush_Kasture\CloudTesting\homeWork.pem" "D:\Piyush_Kasture\CloudTesting\DrivingLicenseApplicationForm.html" ec2-user@34.238.192.36:/var/www/html/
Executing: program ssh.exe host 34.238.192.36, user ec2-user, command sftp
OpenSSH_for_Windows_9.5p2, LibreSSL 3.8.2
debug1: Connecting to 34.238.192.36 [34.238.192.36] port 22.
debug1: Connection established.
debug1: identity file D:/Piyush_Kasture/CloudTesting/homeWork.pem type -1
debug1: identity file D:/Piyush_Kasture/CloudTesting/homeWork.pem-cert type -1
debug1: Local version string SSH-2.0-OpenSSH_for_Windows_9.5
debug1: Remote protocol version 2.0, remote software version OpenSSH_8.7
debug1: compat_banner: match: OpenSSH_8.7 pat OpenSSH* compat 0x04000000
debug1: Authenticating to 34.238.192.36:22 as 'ec2-user'
debug1: load_hostkeys: fopen C:\\\\Users\\\\Piyush_Kasture\\\\ssh\\\\known_hosts2: No such file or directory
debug1: load_hostkeys: __PROGRAMDATA__\\\\ssh\\\\ssh_known_hosts: No such file or directory
debug1: load_hostkeys: fopen __PROGRAMDATA__\\\\ssh\\\\ssh_known_hosts2: No such file or directory
debug1: SSH2_MSG_KEXINIT sent
debug1: SSH2_MSG_KEXINIT received
debug1: kex: algorithm: curve25519-sha256
debug1: kex: host key algorithm: ssh-ed25519
debug1: kex: server->client cipher: chacha20-poly1305@openssh.com MAC: <implicit> compression: none
debug1: kex: client->server cipher: chacha20-poly1305@openssh.com MAC: <implicit> compression: none
debug1: expecting SSH2_MSG_KEX_ECDH_REPLY
debug1: SSH2_MSG_KEX_ECDH_REPLY received
debug1: Server host key: ssh-ed25519 SHA256:xHGSBgTNz4rLCG6BImMLUWPDb6vFChXx48/V4g2mSaw
debug1: load_hostkeys: fopen C:\\\\Users\\\\Piyush_Kasture\\\\ssh\\\\known_hosts2: No such file or directory
debug1: load_hostkeys: fopen __PROGRAMDATA__\\\\ssh\\\\ssh_known_hosts: No such file or directory
debug1: load_hostkeys: fopen __PROGRAMDATA__\\\\ssh\\\\ssh_known_hosts2: No such file or directory
debug1: Host '34.238.192.36' is known and matches the ED25519 host key.
```

```
PS C:\Users\Piyush_Kasture> scp -i "C:\Users\asus-a15\piyush_kasture\.ssh\homeWork.pem" "D:\Piyush_Kasture\CloudTesting\DrivingLicenseApplicationForm.html" ec2-user@34.238.192.36:/var/www/html/
debug1: load_hostkeys: fopen __PROGRAMDATA__\\\\ssh\\\\ssh_known_hosts2: No such file or directory
debug1: Host '34.238.192.36' is known and matches the ED25519 host key.
debug1: Found key in C:\\\\Users\\\\Piyush_Kasture\\\\ssh\\\\known_hosts3
debug1: ssh_packet_send2_wrapped: resetting send seqnr 3
debug1: rekey out after 134217728 blocks
debug1: SSH2_MSG_NEWKEYS sent
debug1: expecting SSH2_MSG_NEWKEYS
debug1: ssh_packet_read_p0l2: resetting read seqnr 3
debug1: SSH2_MSG_NEWKEYS received
debug1: rekey in after 134217728 blocks
debug1: get_agent_identities: ssh_get_authentication_socket: No such file or directory
debug1: Will attempt key: D:/Piyush_Kasture/CloudTesting/homeWork.pem explicit
debug1: SSH2_MSG_EXT_INFO received
debug1: kex_input_ext_info: server-sig-algs=<ssh-ed25519,sk-ssh-ed25519@openssh.com,ssh-rsa,rsa-sha2-256,rsa-sha2-512,ssh-dss,ecdsa-sha2-nistp256,ecdsa-sha-nistp384,ecdsa-sha2-nistp521,sk-ecdsa-sha2-nistp256@openssh.com,webauthn-sk-ecdsa-sha2-nistp256@openssh.com>
debug1: SSH2_MSG_SERVICE_ACCEPT received
debug1: Authentications that can continue: publickey,gssapi-keyex,gssapi-with-mic
debug1: Next authentication method: publickey
debug1: Trying private key: D:/Piyush_Kasture/CloudTesting/homeWork.pem
Authenticated to 34.238.192.36 ([34.238.192.36]:22) using "publickey".
debug1: channel 0: new session [client-session] (inactive timeout: 0)
debug1: Requesting no-more-sessions@openssh.com
debug1: Entering interactive session.
debug1: pledge: filesystem
debug1: client_input_global_request: rtype hostkeys-00@openssh.com want_reply 0
debug1: client_input_hostkeys: searching C:\\\\Users\\\\Piyush_Kasture\\\\ssh\\\\known_hosts for 34.238.192.36 / (none)
debug1: client_input_hostkeys: searching C:\\\\Users\\\\Piyush_Kasture\\\\ssh\\\\known_hosts2 for 34.238.192.36 / (none)
debug1: client_input_hostkeys: hostkeys file C:\\\\Users\\\\Piyush_Kasture\\\\ssh\\\\known_hosts2 does not exist
debug1: client_input_hostkeys: no new or deprecated keys from server
debug1: Remote: /home/ec2-user/.ssh/authorized_keys:1: key options: agent-forwarding port-forwarding pty user-rc x11-forwarding
debug1: Sending subsystem: sftp
debug1: pledge: fork
DrivingLicenseApplicationForm.html
C:\Windows\System32\OpenSSH\scp.exe: debug1: truncating at 2882
debug1: client_input_channel_req: channel 0 rtype exit-status reply 0
debug1: channel 0: free: client-session, nchannels 1
Transferred: sent 5808, received 2556 bytes, in 3.7 seconds
Bytes per second: sent 1580.0, received 695.3
debug1: Exit status 0
PS C:\Users\Piyush_Kasture>
```

## Access HTML File from local machine on browser

- <http://<public IP address of instance>/index.html>
- <http://34.238.192.36/DrivingLicenseApplicationForm.html>

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled "Identity Form". The page content is a form titled "Identity Form" with the following fields:

- Full Name:** A text input field.
- Address:** A text input field.
- Age:** A text input field.
- Place of Birth:** A text input field.
- Vision Impairment:** A section containing two radio buttons:  Yes and  No.
- Color Blindness:** A section containing two radio buttons:  Yes and  No.
- Upload Identity Documents:** A file upload input field with the placeholder "Choose file | No file chosen".

At the bottom of the form are two buttons: a blue "Submit" button and a red "Cancel" button.