

# Hosting a Exam Website on my Linux Server

**Tech stack :** Centos 9, Httpd, HTML, Firewallld

# Checking for updates :

• MobaXterm Personal Edition v25.0 •  
(SSH client, X server and network tools)

- ▶ SSH session to **ec2-user@52.74.107.68**
  - Direct SSH : ✓
  - SSH compression : ✓
  - SSH-browser : ✓
  - X11-forwarding : ✗ (disabled or not supported by server)
- ▶ For more [info](#), ctrl+click on [help](#) or visit our [website](#).



Amazon Linux 2023

<https://aws.amazon.com/linux/amazon-linux-2023>

Last login: Sat May 10 10:57:21 2025 from **157.51.194.43**

[ec2-user@ip-172-31-19-53 ~]\$ sudo yum upgrade

Last metadata expiration check: 1 day, 4:15:18 ago on Fri May 9 06:44:59 2025.

Dependencies resolved.

Nothing to do.

Complete!

[ec2-user@ip-172-31-19-53 ~]\$ █

## Installing Apache Services :

```
[ec2-user@ip-172-31-19-53 ~]$ sudo yum install httpd  
Last metadata expiration check: 1 day, 4:18:58 ago on Fri May 9 06:44:59 2025.  
Package httpd-2.4.61-1.amzn2023.x86_64 is already installed.  
Dependencies resolved.  
Nothing to do.  
Complete!  
[ec2-user@ip-172-31-19-53 ~]$ █
```

## Checking Service Status :

```
[ec2-user@ip-172-31-19-53 ~]$ sudo 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-172-31-19-53 ~]$ █
```

# Configuring Apache and HTML Files :

```
[ec2-user@ip-172-31-19-53 ~]$ sudo 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-172-31-19-53 ~]$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-19-53 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-19-53 ~]$ cd ..
[ec2-user@ip-172-31-19-53 home]$ cd ..
[ec2-user@ip-172-31-19-53 /]$ ll
total 32
lrwxrwxrwx. 1 root root      7 Jan 30  2023 bin -> usr/bin
dr-xr-xr-x.  5 root root 16384 Apr 30 19:08 boot
drwxr-xr-x. 15 root root  3040 May 10 10:56 dev
drwxr-xr-x. 77 root root 16384 May 10 11:02 etc
drwxr-xr-x.  3 root root    22 May  9 06:28 home
lrwxrwxrwx. 1 root root      7 Jan 30  2023 lib -> usr/lib
lrwxrwxrwx. 1 root root      9 Jan 30  2023 lib64 -> usr/lib64
drwxr-xr-x.  2 root root      6 Apr 30 19:06 local
drwxr-xr-x.  2 root root      6 Jan 30  2023 media
drwxr-xr-x.  2 root root      6 Jan 30  2023 mnt
drwxr-xr-x.  3 root root     17 Apr 30 19:08 opt
dr-xr-xr-x. 163 root root      0 May 10 10:56 proc
dr-xr-xr-x.  3 root root    119 May 10 10:39 root
drwxr-xr-x. 28 root root    820 May 10 10:56 run
lrwxrwxrwx. 1 root root      8 Jan 30  2023 sbin -> usr/sbin
drwxr-xr-x.  2 root root      6 Jan 30  2023 srv
dr-xr-xr-x. 13 root root      0 May 10 10:56 sys
drwxrwxrwt. 12 root root    240 May 10 11:08 tmp
drwxr-xr-x. 12 root root    144 Apr 30 19:07 usr
drwxr-xr-x. 20 root root    277 May  9 06:48 var
[ec2-user@ip-172-31-19-53 /]$ cd var/www/html/
[ec2-user@ip-172-31-19-53 html]$ ll
total 4
-rw-r--r--. 1 root root 779 May 10 10:39 index.html
[ec2-user@ip-172-31-19-53 html]$ sudo vi index.html
```

# Building HTML Code for Web Pages :

```
<html>
<head>
  <title>Exam Website</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
    }
    .exam-button {
      background-color: #4CAF50;
      color: #fff;
      padding: 10px 20px;
      border: none;
      border-radius: 5px;
      cursor: pointer;
    }
  </style>
</head>
<body>
  <h1>Exam Website</h1>
  <p>Click the button below to start your exam:</p>
  <button class="exam-button"><a href="//docs.google.com/forms/d/e/1FAIpQLScYm0hk1cP_HDTu3Tb3xie0UTn3vDmoKEkZfXnx6BdJyryE3w/viewform" target=" blank">Start Exam</a></button>
</body>
</html>
```

# Installing a Firewall :

```
[ec2-user@ip-172-31-19-53 ~]$ sudo yum install firewalld
Last metadata expiration check: 1 day, 4:44:33 ago on Fri May 9 06:44:59 2025.
Dependencies resolved.
```

| Package                       | Architecture | Version                | Repository  | Size  |
|-------------------------------|--------------|------------------------|-------------|-------|
| Installing:                   |              |                        |             |       |
| firewalld                     | noarch       | 1.2.3-1.amzn2023       | amazonlinux | 452 k |
| Installing dependencies:      |              |                        |             |       |
| firewalld-filesystem          | noarch       | 1.2.3-1.amzn2023       | amazonlinux | 11 k  |
| gobject-introspection         | x86_64       | 1.82.0-1.amzn2023      | amazonlinux | 122 k |
| ipset                         | x86_64       | 7.11-1.amzn2023.0.3    | amazonlinux | 40 k  |
| ipset-libs                    | x86_64       | 7.11-1.amzn2023.0.3    | amazonlinux | 67 k  |
| iptables-libs                 | x86_64       | 1.8.8-3.amzn2023.0.2   | amazonlinux | 401 k |
| iptables-nft                  | x86_64       | 1.8.8-3.amzn2023.0.2   | amazonlinux | 183 k |
| libnetfilter_conntrack        | x86_64       | 1.0.8-2.amzn2023.0.2   | amazonlinux | 58 k  |
| libnftnl                      | x86_64       | 1.0.1-19.amzn2023.0.2  | amazonlinux | 30 k  |
| libnftnl                      | x86_64       | 1.2.2-2.amzn2023.0.2   | amazonlinux | 84 k  |
| nftables                      | x86_64       | 1:1.0.4-3.amzn2023.0.2 | amazonlinux | 400 k |
| python3-firewall              | noarch       | 1.2.3-1.amzn2023       | amazonlinux | 357 k |
| python3-gobject-base          | x86_64       | 3.48.2-3.amzn2023.0.2  | amazonlinux | 323 k |
| python3-nftables              | x86_64       | 1:1.0.4-3.amzn2023.0.2 | amazonlinux | 18 k  |
| Installing weak dependencies: |              |                        |             |       |
| libcap-ng-python3             | x86_64       | 0.8.2-4.amzn2023.0.2   | amazonlinux | 30 k  |

## Transaction Summary

Install 15 Packages

Total download size: 2.5 M

Installed size: 11 M

Is this ok [y/N]: y

Downloading Packages:

(1/15): firewalld-filesystem-1.2.3-1.amzn2023.noarch.rpm  
(2/15): gobject-introspection-1.82.0-1.amzn2023.x86\_64.rpm  
(3/15): ipset-7.11-1.amzn2023.0.3.x86\_64.rpm

206 kB/s | 11 kB 00:00  
1.9 MB/s | 122 kB 00:00  
1.6 MB/s | 40 kB 00:00

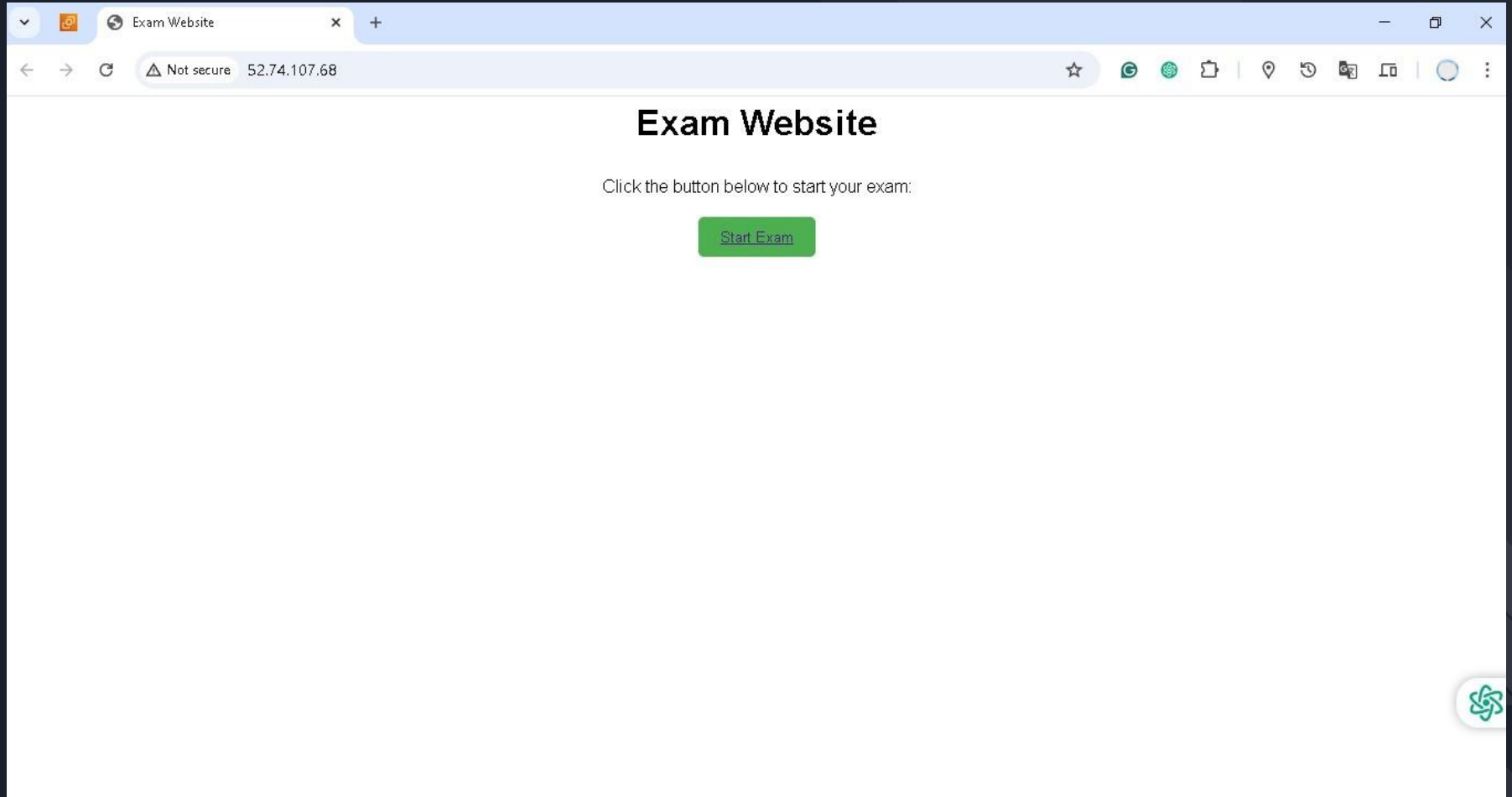


# Starting the Firewall and Assigning Port Numbers :

```
[ec2-user@ip-172-31-19-53 ~]$ sudo systemctl enable firewalld
[ec2-user@ip-172-31-19-53 ~]$ sudo systemctl start firewalld
[ec2-user@ip-172-31-19-53 ~]$ sudo systemctl status firewalld
● firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; preset: enabled)
   Active: active (running) since Sat 2025-05-10 11:31:48 UTC; 13min ago
     Docs: man:firewalld(1)
   Main PID: 5346 (firewalld)
    Tasks: 2 (limit: 1111)
   Memory: 27.9M
      CPU: 2.172s
   CGroup: /system.slice/firewalld.service
           └─5346 /usr/bin/python3 -s /usr/sbin/firewalld --nofork --nopid

May 10 11:31:48 ip-172-31-19-53.ap-southeast-1.compute.internal systemd[1]: Starting firewalld.service - firewalld - dynamic firewall daemon...
May 10 11:31:48 ip-172-31-19-53.ap-southeast-1.compute.internal systemd[1]: Started firewalld.service - firewalld - dynamic firewall daemon.
[ec2-user@ip-172-31-19-53 ~]$ sudo firewall-cmd --permanent --add-port=80/tcp
Warning: ALREADY_ENABLED: 80:tcp
success
[ec2-user@ip-172-31-19-53 ~]$ sudo firewall-cmd --permanent --add-port=443/tcp
Warning: ALREADY_ENABLED: 443:tcp
success
[ec2-user@ip-172-31-19-53 ~]$ sudo firewall-cmd --reload
success
[ec2-user@ip-172-31-19-53 ~]$ █
```

# Output :





# Result :

Exam Website Linux Basic Questions

docs.google.com/forms/d/e/1FAIpQLScYmOhkIdP\_HDtu3Tb3xie0UTn3vDmoKEkZfXnx6BdJryE3w/viewform

## Linux Basic Questions

Using which of the following command can hidden files be viewed?

thamraiseeivan.cloud@gmail.com [Switch account](#)

Not shared

\* Indicates required question

Using which of the following command can hidden files be viewed? \* 0 points

- ☐ ls-h
- ☐ ls-a
- ☐ ls-k
- ☐ ls-l

Which of the following command is used to add a new user to the system? \* 0 points

- ☐ linuxconf
- ☐ adduser
- ☐ useradd
- ☐ all

Which of the following command is used to change the working directory? \* 0 points

- ☐ Chd