

Host a Website on AWS Linux (Amazon Linux 2023)

STEP 1 — Launch an EC2 Instance

1. Go to AWS Console → EC2
2. Click 'Launch Instance'
3. Choose Amazon Linux 2023 AMI
4. Instance type: t2.micro
5. Create/select a key pair
6. Allow ports: SSH (22), HTTP (80)
7. Launch instance

Screenshots:

The screenshots illustrate the process of launching an EC2 instance. The top screenshot shows the 'Launch an instance' wizard with the following details:

- Name and tags:** Name is set to "AdilEc2".
- Software Image (AMI):** Amazon Linux 2023 AMI 2023.9.2.
- Virtual server type (instance type):** t3.micro.
- Launch instance** button is highlighted.

The bottom screenshot shows the instance summary for the launched instance (i-0c00a7992ddb20877):

- Instance ID:** i-0c00a7992ddb20877
- Public IPv4 address:** 13.235.17.55
- Instance state:** Running
- VPC ID:** vpc-091dd95936fc3158c
- Private IP DNS name (IPv4 only):** ip-172-31-34-132.ap-south-1.compute.internal
- Instance type:** t3.micro
- Subnet ID:** subnet-0cde50f9b4f7dfc88
- Instance ARN:** arn:aws:ec2:ap-south-1:369317511812:instance/i-0c00a7992ddb20877

STEP 2 — Connect to EC2

Windows PowerShell:

```
ssh -i "path/to/key.pem" ec2-user@YOUR_PUBLIC_IP
```

STEP 3 — Install Apache Web Server

```
sudo dnf update -y
```

```
sudo dnf install httpd -y
```

```
sudo systemctl start httpd
```

```
sudo systemctl enable httpd
```

screenshots:

The screenshot shows a Windows PowerShell window titled 'ec2-user@ip-172-31-34-132:~'. The session starts with a warning about installing the latest PowerShell. It then shows the SSH connection setup, including the host key fingerprint and a 'yes' response to the connection warning. The main part of the session shows the execution of several commands to update the system and install Apache. The 'sudo dnf update -y' command is highlighted with a red box. The 'sudo dnf install httpd -y' command is also highlighted with a red box. Finally, the output of the 'yum repolist' command is shown, listing packages like 'httpd', 'apr', 'apr-util', and 'apr-util-lmdb' along with their details.

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

PS C:\Users\Ahammed Adil M> ssh -i "C:\Users\Ahammed Adil M\Downloads\adilec2ser.pem" ec2-user@ec2-13-235-17-55.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-13-235-17-55.ap-south-1.compute.amazonaws.com (13.235.17.55)' can't be established.
ED25519 key fingerprint is SHA256:9duSkJSID17Q5WCNP7j0Hj9B88xFUjKm47dAecd0UhA.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-13-235-17-55.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.

[ec2-user@ip-172-31-34-132 ~]$ sudo dnf update -y
Amazon Linux 2023 Kernel Livepatch repository                                         241 kB/s | 29 kB     00:00
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-34-132 ~]$ sudo dnf install httpd -y
Last metadata expiration check: 0:00:18 ago on Sat Nov 22 05:34:40 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
```

The screenshot shows a terminal window with a black background and white text. It displays the configuration of the Apache service. The 'sudo systemctl start httpd' command is highlighted with a red box, and the 'sudo systemctl enable httpd' command is also highlighted with a red box. The output shows that the service was started successfully and a symlink was created in the '/etc/systemd/system/multi-user.target.wants/' directory pointing to '/usr/lib/systemd/system/httpd.service'.

```
maittcap 2.1.49-5.amzn2023.0.3.noarch          mod_http2 2.0.27-1.amzn2023.0.3.x86_64
mod_lua-2.4.65-1.amzn2023.0.2.x86_64

Complete!
[ec2-user@ip-172-31-34-132 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-34-132 ~]$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-34-132 ~]$
```

STEP 4 — Upload Website Files

Website folder: /var/www/html/

Permissions:

```
sudo chmod -R 777 /var/www/html
```

```
Complete!
[ec2-user@ip-172-31-34-132 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-34-132 ~]$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-34-132 ~]$ /var/www/html/
-bash: /var/www/html/: Is a directory
[ec2-user@ip-172-31-34-132 ~]$ sudo chmod -R 777 /var/www/html
[ec2-user@ip-172-31-34-132 ~]$ logout
Connection to ec2-13-235-17-55.ap-south-1.compute.amazonaws.com closed.
PS C:\Users\Ahmed Adil M> scp -i "C:\Users\Ahmed Adil M\Downloads\adilec2ser.pem" -r "C:\Users\Ahmed Adil M\Desktop\ADIL\MY website\index.html" ec2-user@13.235.17.55:/var/www/html/
The authenticity of host '13.235.17.55 (13.235.17.55)' can't be established.
ED25519 key fingerprint is SHA256:9duSkJSID17Q5WCNP7j0Hj988xFUJkM#7dAecd0UhA.
This host key is known by the following other names/addresses:
  C:\Users\Ahmed Adil M\.ssh\known_hosts:5: ec2-13-235-17-55.ap-south-1.compute.amazonaws.com
Are you sure you want to continue connecting (yes/no/[fingerprint])?
```

Upload from Windows:

```
scp -i "path/to/key.pem" -r "path/to/website/*" ec2-
user@YOUR_PUBLIC_IP:/var/www/html/
```

```
Complete!
[ec2-user@ip-172-31-34-132 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-34-132 ~]$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-34-132 ~]$ /var/www/html/
-bash: /var/www/html/: Is a directory
[ec2-user@ip-172-31-34-132 ~]$ sudo chmod -R 777 /var/www/html
[ec2-user@ip-172-31-34-132 ~]$ logout
Connection to ec2-13-235-17-55.ap-south-1.compute.amazonaws.com closed.
PS C:\Users\Ahmed Adil M> scp -i "C:\Users\Ahmed Adil M\Downloads\adilec2ser.pem" -r "C:\Users\Ahmed Adil M\Desktop\ADIL\MY website\index.html" ec2-user@13.235.17.55:/var/www/html/
The authenticity of host '13.235.17.55 (13.235.17.55)' can't be established.
ED25519 key fingerprint is SHA256:9duSkJSID17Q5WCNP7j0Hj988xFUJkM#7dAecd0UhA.
This host key is known by the following other names/addresses:
  C:\Users\Ahmed Adil M\.ssh\known_hosts:5: ec2-13-235-17-55.ap-south-1.compute.amazonaws.com
Are you sure you want to continue connecting (yes/no/[fingerprint])?
```

STEP 5 — Restart Apache

```
sudo systemctl restart httpd
```

```
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Warning: Permanently added '13.235.17.55' (ED25519) to the list of known hosts.
index.html                                         100% 4524   116.3KB/s  00:00
PS C:\Users\Ahmed Adil M> sudo systemctl restart httpd
Sudo is disabled on this machine. To enable it, go to the Developer Settings page in the Settings app
PS C:\Users\Ahmed Adil M> ssh -i "C:\Users\Ahmed Adil M\Downloads\adilec2ser.pem" ec2-user@ec2-13-235-17-55.ap-south-1.compute.amazonaws.com
#_
~\_ #####          Amazon Linux 2023
~~ \_#####\_
~~  \###|
~~   \#/ ___ https://aws.amazon.com/linux/amazon-linux-2023
~~   \~' '→
~~~ /_
~~~ ._. _/
~~~ /_/
~~~ /m/
Last login: Sat Nov 22 05:33:56 2025 from 103.42.196.24
[ec2-user@ip-172-31-34-132 ~]$ sudo systemctl restart httpd
[ec2-user@ip-172-31-34-132 ~]$ Connection to ec2-13-235-17-55.ap-south-1.compute.amazonaws.com closed by remote host.
Connection to ec2-13-235-17-55.ap-south-1.compute.amazonaws.com closed.
```

STEP 6 — View Website

Open browser:

http://YOUR_PUBLIC_IP

