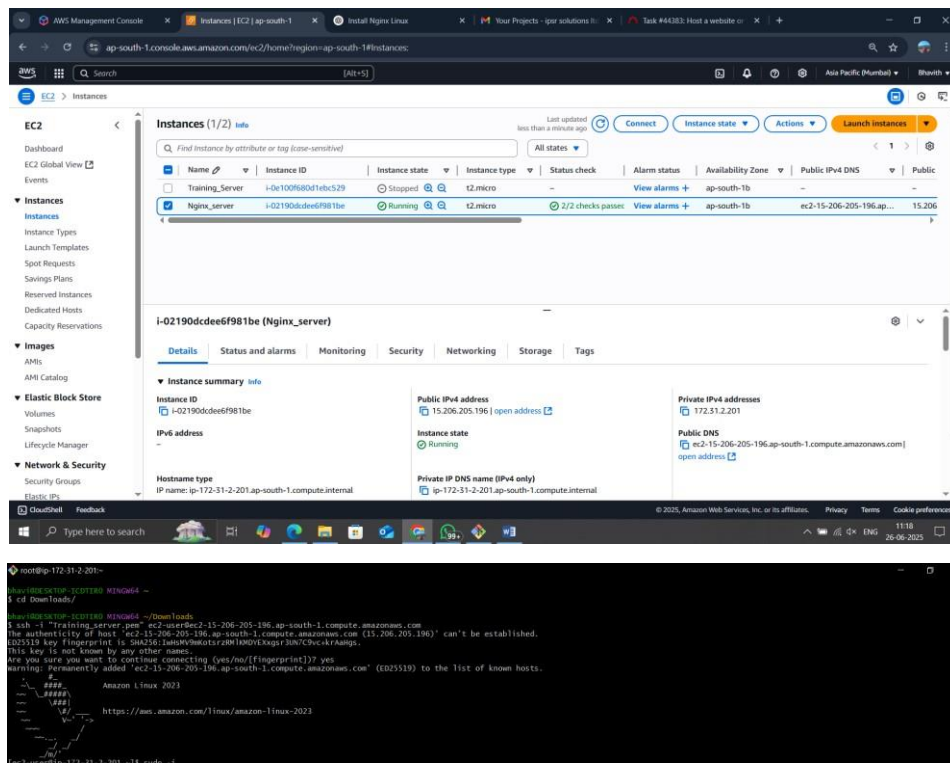


# Simple Guide: Host a Website Using Nginx on AWS

## Step 0: Launch an EC2 Instance and Connect with Git Bash

1. Go to <https://console.aws.amazon.com> and log in.
2. Go to the EC2 Dashboard → Click “Launch Instance”.
3. Choose an Amazon Linux 2 AMI.
4. Choose a t2.micro instance type (free tier).
5. Create a new key pair or use an existing one (.pem file).
6. Allow HTTP and SSH in the Security Group.
7. Launch the instance.
8. After launching, go to “Instances” and copy the Public IPv4 address.
9. Open Git Bash on your computer.
10. Connect using SSH (replace `your-key.pem` and IP): `ssh -i your-key.pem ec2-user@<your-ec2-public-ip>`
11. Login as root user : `sudo -i`



## Step 1: Install Nginx Web Server

1. After connecting to your instance, run: `yum install nginx -y`
2. Start Nginx:  
`sudo systemctl start nginx`
3. Enable it to auto-start on reboot:  
`sudo systemctl enable nginx`
4. Check if it's running:  
`sudo systemctl status nginx`

```
[root@ip-172-31-2-201 ~]# systemctl start nginx.service
[root@ip-172-31-2-201 ~]# systemctl enable nginx.service
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service - /usr/lib/systemd/system/nginx.service.
[root@ip-172-31-2-201 ~]# systemctl status nginx.service
● nginx.service - The nginx HTTP and reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: disabled)
   Active: active (running) since Thu 2025-06-26 05:42:26 UTC; 16s ago
     Main PID: 26057 (nginx)
       Tasks: 2 (limit: 1111)
        Memory: 2.0M
           CPU: 60ms
      CGroup: /system.slice/nginx.service
              └─26057 "nginx: master process /usr/sbin/nginx"
                  └─26058 "nginx: worker process"

Jun 26 05:42:26 ip-172-31-2-201.ap-south-1.compute.internal systemd[1]: Starting nginx.service - The nginx HTTP and reverse proxy server...
Jun 26 05:42:26 ip-172-31-2-201.ap-south-1.compute.internal nginx[26055]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Jun 26 05:42:26 ip-172-31-2-201.ap-south-1.compute.internal nginx[26055]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Jun 26 05:42:26 ip-172-31-2-201.ap-south-1.compute.internal systemd[1]: Started nginx.service - The nginx HTTP and reverse proxy server.
```

## Step 2: Host a Simple Website

1. Go to the default document root:

`cd /usr/share/nginx/html`

2. Open the index file: `sudo`

`vim index.html`

3. Replace it

with this HTML:

```
-----
<!DOCTYPE html>
<html>
<head><title>Welcome to My Site</title></head>
<body>
  <h1>Welcome to My Site</h1>
  <p>This is a site done by Bhavith with Nginx</p>
</body>
</html>
```

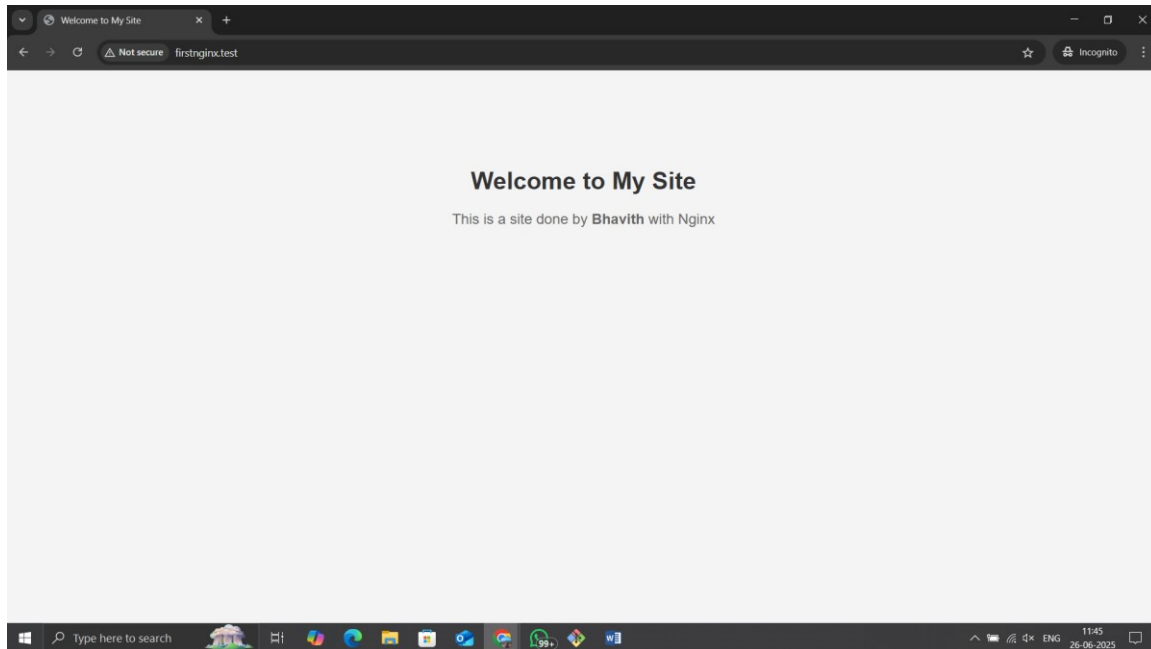
- 4.

Save the file and exit.

5. Reload Nginx:

`sudo systemctl reload nginx`





## Step 4: Learn About Nginx Web Server

- Nginx is a high-performance web server and reverse proxy.
- Common use cases:
  - Serving static websites (HTML, images, etc.)
  - Reverse proxying to apps (like Node.js or Python)
  - Load balancing between servers
  - SSL termination (HTTPS)
- Important file paths:
  - Main config: `/etc/nginx/nginx.conf`
  - Default site: `/etc/nginx/conf.d/default.conf`
  - Document root: `/usr/share/nginx/html`