

Steps to Run an Nginx Server on Ubuntu

Step 1: Update and Upgrade Your System

```
sudo apt update
```

```
sudo apt upgrade -y
```

- `update` fetches the latest package lists.
- `upgrade` installs the newest versions of packages.

Step 2: Install Nginx

```
sudo apt install nginx -y
```

- `-y` automatically confirms the installation.

Step 3: Check Nginx Status

```
sudo systemctl status nginx
```

- `active (running)` means it's working.
- Press `q` to exit the status screen.

```
server {  
    listen 80;  
    server_name 108.129.131.71;  
    location / {  
        proxy_pass http://127.0.0.1:8000;  
    }  
}
```

Step 4: Start, Stop, or Restart Nginx

```
sudo systemctl start nginx    # Start Nginx  
sudo systemctl stop nginx    # Stop Nginx  
sudo systemctl restart nginx  # Restart Nginx  
sudo systemctl reload nginx   # Reload configuration without downtime
```

> Tip: Use `restart` if you updated configuration files. Use `reload` if you want to apply changes without interrupting active connections.

Step 5: Enable Nginx to Start on Boot

```
sudo systemctl enable nginx  
- Ensures Nginx starts automatically after a server reboot.
```

Step 6: Adjust Firewall (Optional)

```
sudo ufw allow 'Nginx Full'  
sudo ufw status  
- Allows HTTP and HTTPS traffic if UFW is enabled.
```

Step 7: Test Nginx

Open your browser and enter your server's IP address:
http://your_server_ip
- You should see the Nginx default page.

Step 8: Restart for Effectiveness

```
sudo systemctl restart nginx  
sudo reboot  
- `reboot` ensures all updates and services are properly applied.
```