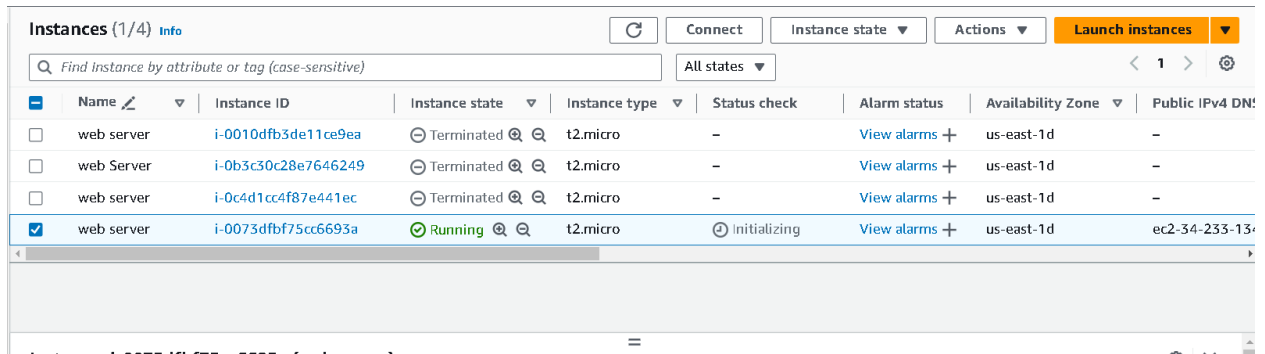


Hosting a website on AWS EC2 instance using the nginx web server

Step 1: launch an instance.



The screenshot shows the AWS Management Console 'Instances' page. It displays a table of EC2 instances. The first three instances are in a 'Terminated' state, and the fourth instance, named 'web server' with ID 'i-0073dfbf75cc6693a', is in a 'Running' state. The 'Running' instance is highlighted with a blue row. The table columns include Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS.

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	web server	i-0010dfb3de11ce9ea	Terminated	t2.micro	-	View alarms	us-east-1d	-
<input type="checkbox"/>	web Server	i-0b3c30c28e7646249	Terminated	t2.micro	-	View alarms	us-east-1d	-
<input type="checkbox"/>	web server	i-0c4d1cc4f87e441ec	Terminated	t2.micro	-	View alarms	us-east-1d	-
<input checked="" type="checkbox"/>	web server	i-0073dfbf75cc6693a	Running	t2.micro	Initializing	View alarms	us-east-1d	ec2-34-233-134

Step 2: connect to instance.

ubuntu@ip-172-31-0-199: /var/www/html

```
login as: ubuntu
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1014-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Tue Mar 26 12:47:20 UTC 2024

System load:  0.03271484375      Processes:            101
Usage of /:   20.4% of 7.57GB    Users logged in:     0
Memory usage: 21%               IPv4 address for eth0: 172.31.0.199
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
```

Step 3: update the system.

➤ Sudo apt-get update

```
ubuntu@ip-172-31-0-199:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1505 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [290 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1628 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [273 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1059 kB]
```

Step 4: install nginx web server.

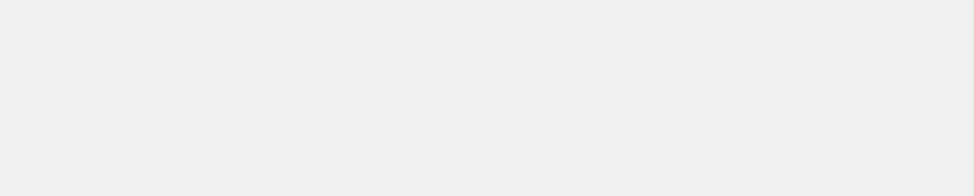
Sudo apt-get install nginx

```
etadata [260 B]
Fetched 30.4 MB in 6s (5364 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-0-199:~$ Sudo apt-get install nginx
Command 'Sudo' not found, did you mean:
  command 'ludo' from snap ludo (0.17.1)
  command 'udo' from deb udo (6.4.1-6)
  command 'sudo' from deb sudo (1.9.9-1ubuntu2.4)
  command 'sudo' from deb sudo-ldap (1.9.9-1ubuntu2.4)
See 'snap info <snapname>' for additional versions.
ubuntu@ip-172-31-0-199:~$ sudo apt-get install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3
  libjbig0 libjpeg-turbo8 libjpeg8 libnginx-mod-http-geoip2
  libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter
  libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5
  libwebp7 libxpm4 nginx-common nginx-core
Suggested packages:
  libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3
  libjbig0 libjpeg-turbo8 libjpeg8 libnginx-mod-http-geoip2
  libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter
  libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5
  libwebp7 libxpm4 nginx nginx-common nginx-core
0 upgraded, 20 newly installed, 0 to remove and 19 not upgraded.
```

Step 5: restart and enable the nginx

Sudo systemctl restart nginx

Sudo systemctl enable nginx



The screenshot shows a web browser window with a light blue header. The address bar contains the URL '34.233.134.89/?username=ankitalunawat12%40gmail.com&password=Ankita' and a 'Not secure' warning. The main content area is a solid light gray. Centered in this area is a white login card with a subtle drop shadow. The card features the title 'Login' in bold black text, followed by two input fields labeled 'Username' and 'Password', and a prominent green 'Login' button at the bottom.