

## Buat instance Ubuntu free tier di AWS

**Instance summary for i-0c5080a06f019181d (valin-test)** Info

Updated 35 minutes ago

**Instance ID**  
i-0c5080a06f019181d

**Public IPv4 address**  
47.129.122.161 | [open address](#)

**Private IPv4 addresses**  
172.31.1.220

**Instance state**  
Running

**Public DNS**  
ec2-47-129-122-161.ap-southeast-1.compute.amazonaws.com | [open address](#)

**IPv6 address**  
-

**Private IP DNS name (IPv4 only)**  
ip-172-31-1-220.ap-southeast-1.compute.internal

**Instance type**  
t3.micro

**Hostname type**  
IP name: ip-172-31-1-220.ap-southeast-1.compute.internal

**Answer private resource DNS name**  
IPv4 (A)

**Elastic IP addresses**  
-

**Auto-assigned IP address**  
47.129.122.161 [Public IP]

**VPC ID**  
vpc-0e580a83c8be4e780

**AWS Compute Optimizer finding**  
No recommendations available for this

## Security Group (allow SSH dan HTTP)

**Edit inbound rules** Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type	Protocol	Port range	Source	Description - optional	
sgr-073fc201c09db1898	HTTP	TCP	80	0.0.0.0/0		Delete
sgr-06fc240a068a987c6	SSH	TCP	22	0.0.0.0/0		Delete

[Add rule](#)

```
ubuntu@ip-172-31-1-220: ~  
  
Valin@DESKTOP-VMJSNLD MINGW64 ~/Downloads  
$ chmod 400 valin.pe  
chmod: cannot access 'valin.pe': No such file or directory  
  
Valin@DESKTOP-VMJSNLD MINGW64 ~/Downloads  
$ chmod 400 valin.pem  
  
Valin@DESKTOP-VMJSNLD MINGW64 ~/Downloads  
$ ssh -i valin.pem ubuntu@47.129.122.161  
The authenticity of host '47.129.122.161 (47.129.122.161)' can't be established.  
ED25519 key fingerprint is SHA256:Chr2r4RXGgGrb8YBMxkWo2/5o9kebAT71IPCsDzUSIg.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '47.129.122.161' (ED25519) to the list of known hosts  
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1015-aws x86_64)  
  
* Documentation: https://help.ubuntu.com  
* Management:   https://landscape.canonical.com  
* Support:      https://ubuntu.com/pro
```

Instruksi :

Setelah instalasi selesai, lakukan konfigurasi berikut:

- Update sistem (sudo apt update && sudo apt upgrade -y).
- Install paket pendukung (misalnya: curl, net-tools, vim).

```
ubuntu@ip-172-31-1-220:~$ history
1  sudo apt update && sudo apt upgrade -y
2  sudo apt install -y curl net-tools vim
```

## Part 2:

### 5. Pembuatan User & Group

- Buat 3 user baru: user1, user2, user3.
- Buat 2 group baru: dev dan ops.
- Masukkan user1 dan user2 ke group dev.
- Masukkan user3 ke group ops.

```
3  sudo adduser user1
4  sudo adduser user2
5  sudo adduser user3
6  sudo groupadd dev
7  sudo groupadd ops
```

### 6. Manajemen Permission

- Buat direktori /project/dev dengan owner group dev.
- Beri permission agar hanya group dev yang bisa membaca & menulis di /project/dev.
- Buat direktori /project/ops dengan owner group ops.
- Beri permission agar hanya group ops yang bisa membaca & menulis di /project/ops.

```
12 sudo mkdir -p /project/dev
13 sudo chown :dev /project/dev
14 sudo chmod 770 /project/dev
15 sudo mkdir -p /project/ops
16 sudo chown :ops /project/ops
17 sudo chmod 770 /project/ops
```

## 7. Pengujian

- Login sebagai user1, coba buat file di /project/dev.
- Login sebagai user3, coba akses /project/dev (harus ditolak).
- Lakukan hal yang sama untuk direktori /project/ops.

```
ubuntu@ip-172-31-1-220:~$ sudo -u user1 touch /project/dev/test1.txt
ubuntu@ip-172-31-1-220:~$ sudo -u user3 ls /project/dev
ls: cannot open directory '/project/dev': Permission denied
ubuntu@ip-172-31-1-220:~$ sudo -u user3 touch /project/ops/test3.txt
```

### Part 3:

8. Install dan konfigurasi Nginx.
9. Buat file index.html sederhana berisi:

*<h1>Hello, ini website pertama saya!</h1>*

- Pengujian

Akses [http://IP\\_VM](http://IP_VM) dan pastikan halaman yang dibuat muncul.

```
ubuntu@ip-172-31-1-220:~$ sudo apt install -y nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
ubuntu@ip-172-31-1-220:~$ echo "<h1>Hello, ini website pertama saya!</h1>" | sudo
o tee /var/www/html/index.html
-bash: !: event not found
ubuntu@ip-172-31-1-220:~$ echo '<h1>Hello, ini website pertama saya!</h1>' | sud
o tee /var/www/html/index.html
<h1>Hello, ini website pertama saya!</h1>
```

← → ↻ ⚠ Not secure 47.129.122.161

# Hello, ini website pertama saya!

## History

```
ubuntu@ip-172-31-1-220:~$ history
 1 sudo apt update && sudo apt upgrade -y
 2 sudo apt install -y curl net-tools vim
 3 sudo adduser user1
 4 sudo adduser user2
 5 sudo adduser user3
 6 sudo groupadd dev
 7 sudo groupadd ops
 8 sudo usermod -aG dev user1
 9 sudo usermod -aG dev user2~
10 sudo usermod -aG dev user2
11 sudo usermod -aG ops user3
12 sudo mkdir -p /project/dev
13 sudo chown :dev /project/dev
14 sudo chmod 770 /project/dev
15 sudo mkdir -p /project/ops
16 sudo chown :ops /project/ops
17 sudo chmod 770 /project/ops
18 sudo -u user1 touch /project/dev/test1.txt
19 sudo -u user3 ls /project/dev
20 sudo -u user3 touch /project/ops/test3.txt
21 sudo apt install -y nginx
22 sudo systemctl enable nginx
23 sudo systemctl start nginx
24 echo '<h1>Hello, ini website pertama saya!</h1>' | sudo tee /var/www/html
/index.html
 25 histroy
 26 history
ubuntu@ip-172-31-1-220:~$ date
Fri Dec 12 19:19:55 UTC 2025
ubuntu@ip-172-31-1-220:~$
```