

**LAPORAN UJIAN AKHIR SEMESTER MATA KULIAH
KOMPUTASI AWAN “PEMBUATAN INSTANCE DENAN EC2 DI
AWS DAN MENYAMBUNGAN KE UBUNTU”**



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- | | |
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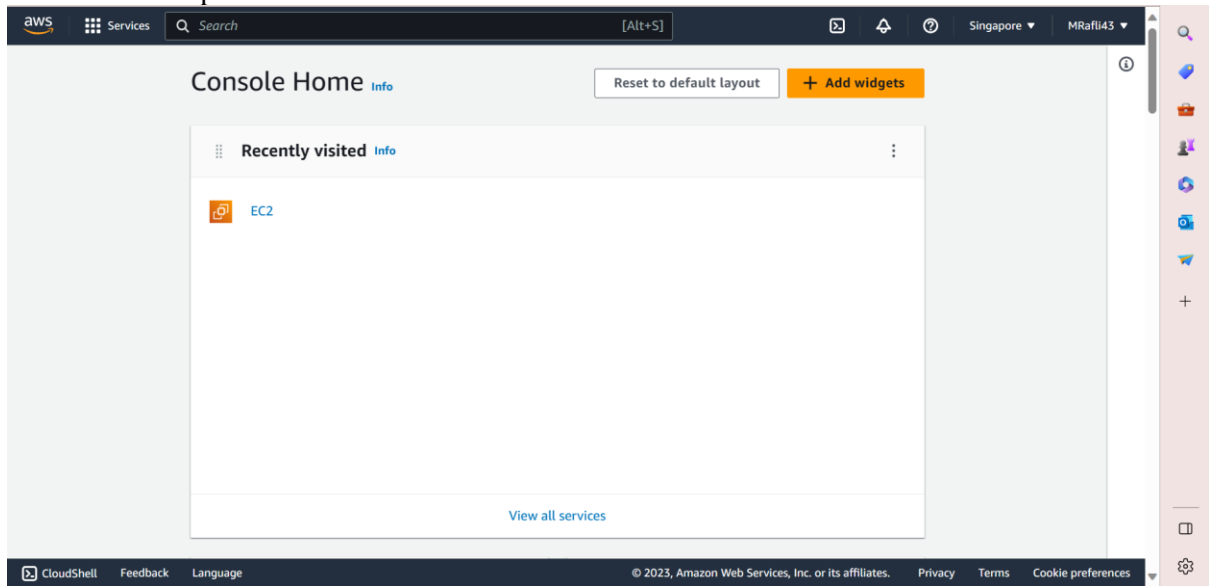
DOSEN PENGAMPU:

Mohammad Idhom, S.P., S.Kom., M.T.

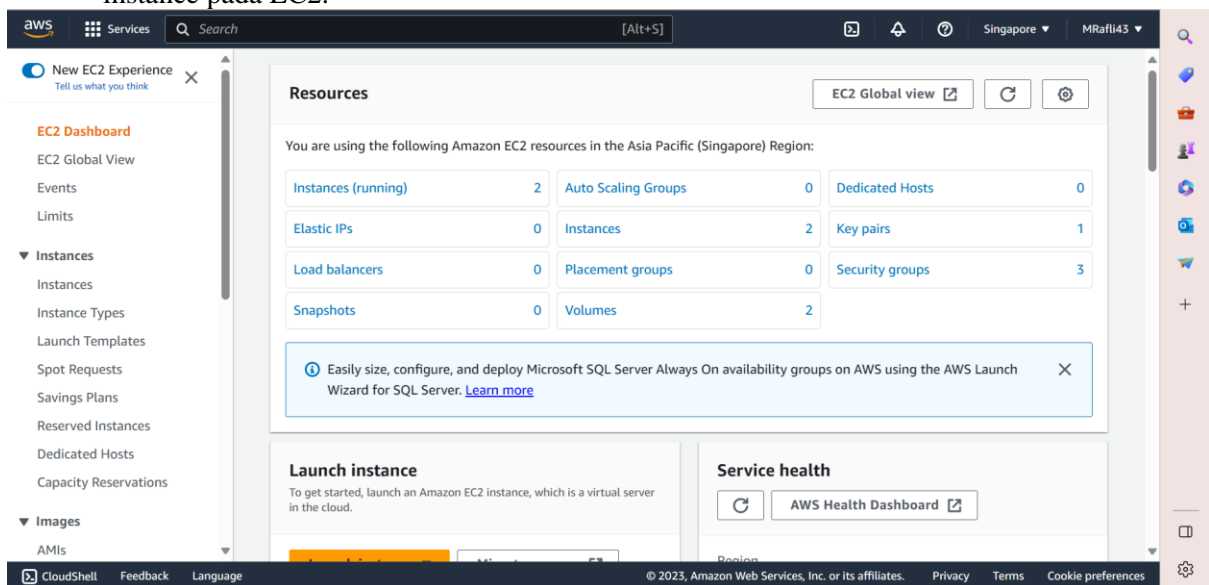
**PROGRAM STUDI SAINS DATA FAKULTAS ILMU KOMPUTER
UNIVERSITAS PEMBANGUNAN NASIONAL “VETERAN” JAWA
TIMUR
2023**

Langkah-Langkah:

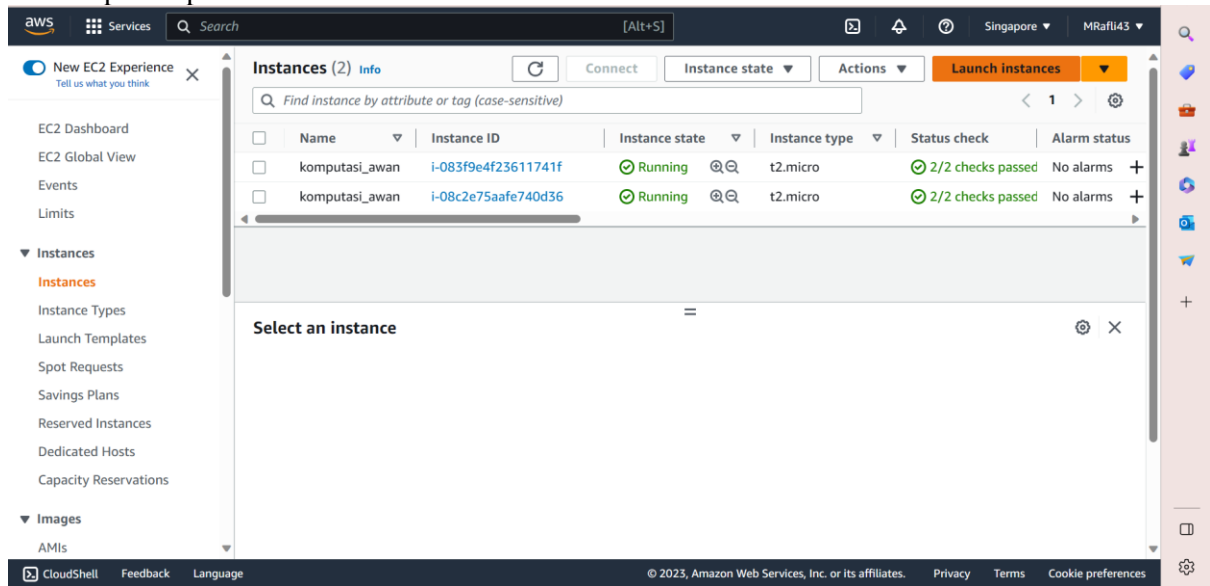
1. Masuk ke consol AWS dengan akun yang telah dibuat, kemudian kita pilih fitur EC2 pada AWS seperti dibawah ini



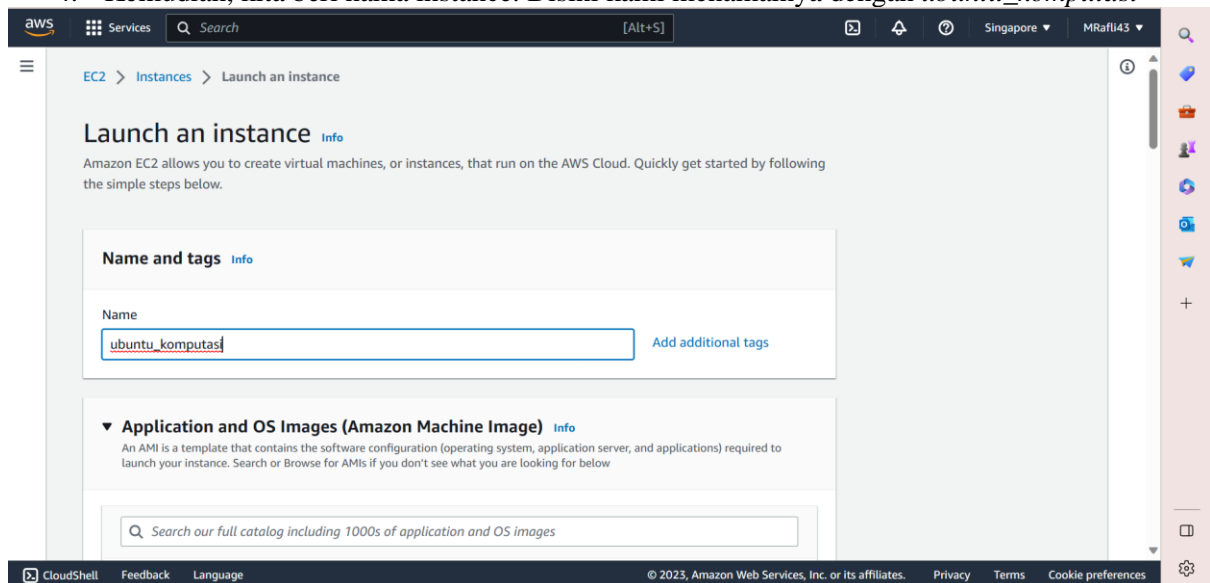
2. Berikut adalah gambaran EC2 dashboard, kemudian kita pilih Instance untuk membuat instance pada EC2.



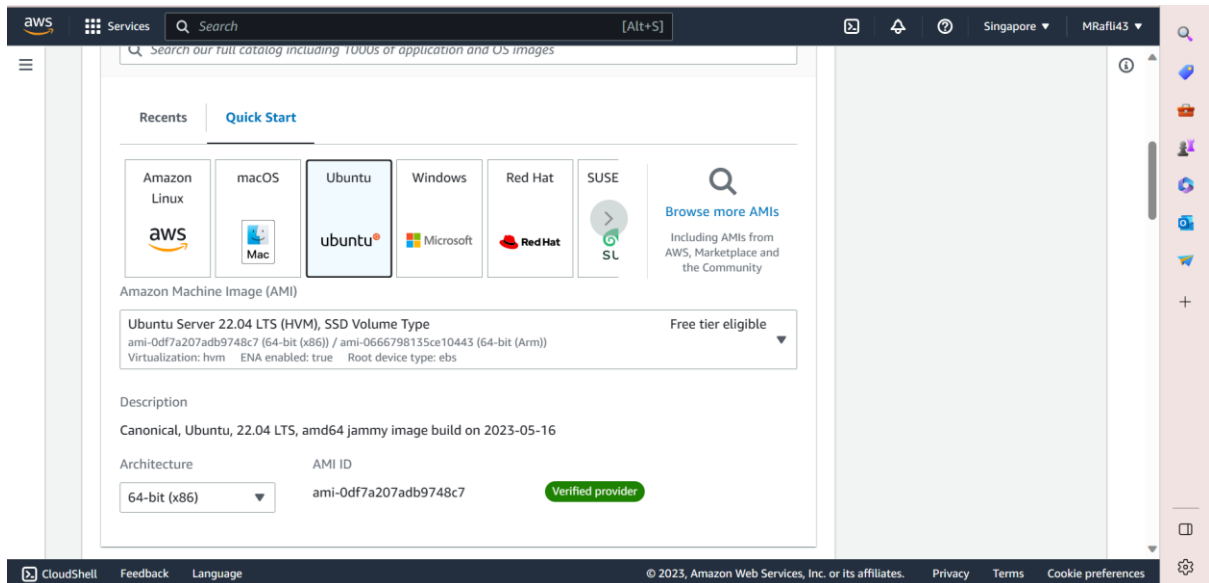
3. Setelah masuk ke Instance, pilih Launch Instance yang berada di kanan atas untuk masuk ke proses pembuatan instance



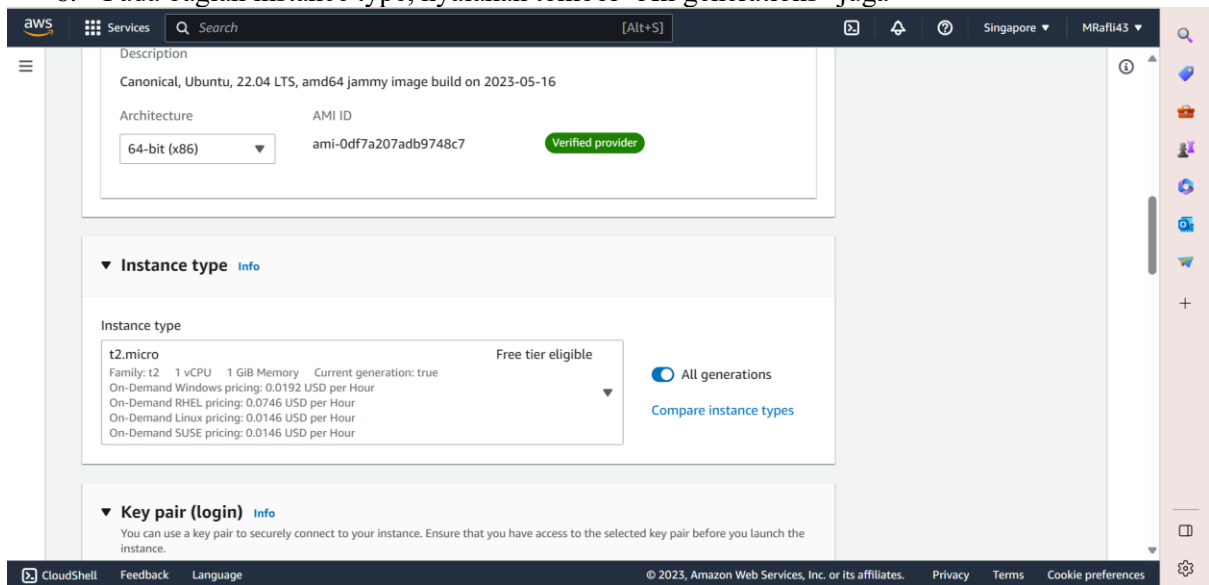
4. Kemudian, kita beri nama instance. Disini kami menamainya dengan *ubuntu_komputasi*



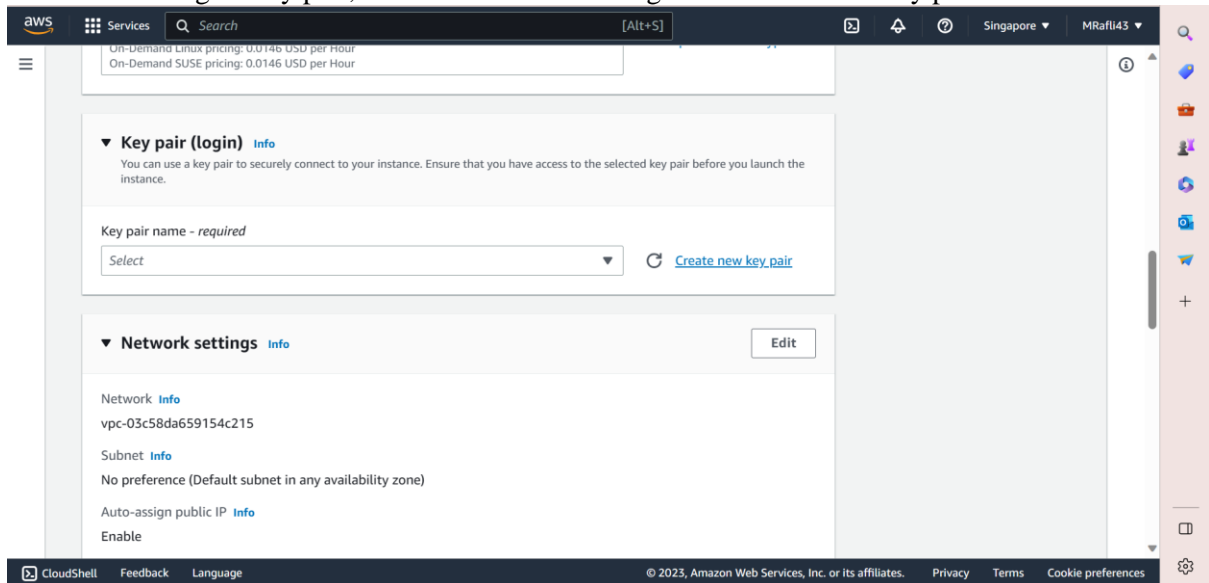
5. Karena kita ingin menyambungkan ke Ubuntu, maka kita pilih dalam Quick Start dengan Ubuntu.



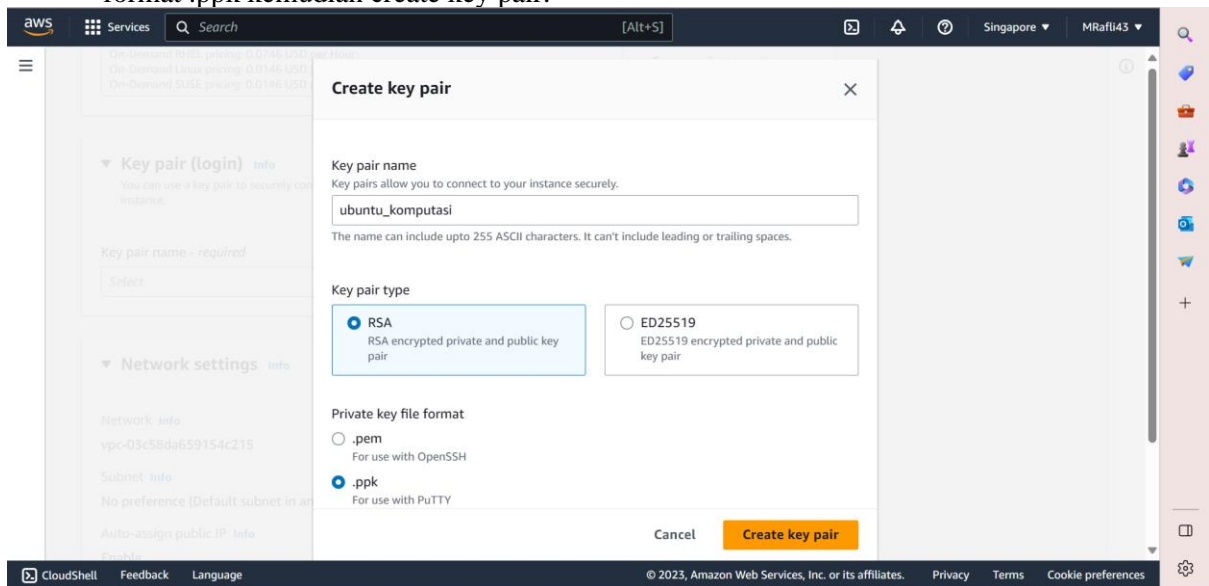
6. Pada bagian instance type, nyalakan tombol “All generations” juga



7. Pada bagian key pair, kita buat kunci baru dengan klik create new key pair



8. Dalam pembuatan key pair, kita buat nama kunci *ubuntu_komputasi* dengan tipe RSA dan file format .ppk kemudian create key pair.



9. Mengatur network dengan ketentuan subnet harus pada zona ap-southeast-1a.

The screenshot shows the 'Network settings' section in the AWS console. The VPC is set to 'vpc-03c58da659154c215' (default). The Subnet is set to 'subnet-04edec5a7b7e104e', which is located in the 'ap-southeast-1a' availability zone. The 'Auto-assign public IP' option is set to 'Enable'. Under 'Firewall (security groups)', the 'Create security group' button is selected. The 'Security group name' is set to 'launch-wizard-3'. A note indicates that this security group will be added to all network interfaces and that the name cannot be edited after creation.

Network settings [Info](#)

VPC - *required* [Info](#)

vpc-03c58da659154c215 (default) [Refresh](#)

Subnet [Info](#)

subnet-04edec5a7b7e104e [Refresh](#) [Create new subnet](#)

VPC: vpc-03c58da659154c215 Owner: 037006967398
Availability Zone: ap-southeast-1a IP addresses available: 4089 CIDR: 172.31.16.0/20

Auto-assign public IP [Info](#)

Enable

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

Security group name - *required*

launch-wizard-3

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-:/[]+=&.!\$*

10. Lalu, mengatur type info menjadi ssh dan source type menjadi My IP.

The screenshot shows the 'Security group rule' configuration in the AWS console. The 'Type' is set to 'ssh' and the 'Protocol' is 'TCP'. The 'Port range' is '22'. The 'Source type' is set to 'My IP'. The 'Name' is 'Add CIDR, prefix list or security group' and the 'Description' is 'e.g. SSH for admin desktop'. The 'Security group rule' is 'Security group rule 2 (TCP, 3389, 36.81.174.45/32)'. The 'Type' is set to 'rdp' and the 'Protocol' is 'TCP'. The 'Port range' is '3389'. The 'Source type' is set to 'My IP'. The 'Name' is 'Add CIDR, prefix list or security group' and the 'Description' is 'e.g. SSH for admin desktop'. The 'Add security group rule' button is visible at the bottom.

Type [Info](#)

ssh

Protocol [Info](#)

TCP

Port range [Info](#)

22

Source type [Info](#)

My IP

Name [Info](#)

Add CIDR, prefix list or security group

36.81.174.45/32 [Remove](#)

Description - *optional* [Info](#)

e.g. SSH for admin desktop

Security group rule 2 (TCP, 3389, 36.81.174.45/32) [Remove](#)

Type [Info](#)

rdp

Protocol [Info](#)

TCP

Port range [Info](#)

3389

Source type [Info](#)

My IP

Name [Info](#)

Add CIDR, prefix list or security group

36.81.174.45/32 [Remove](#)

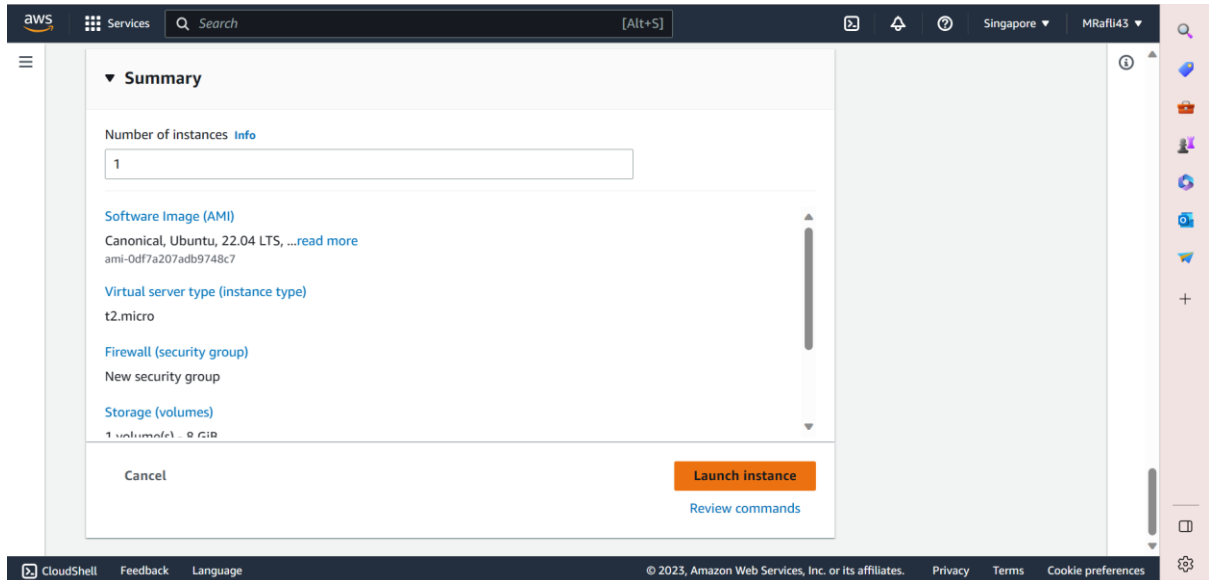
Description - *optional* [Info](#)

e.g. SSH for admin desktop

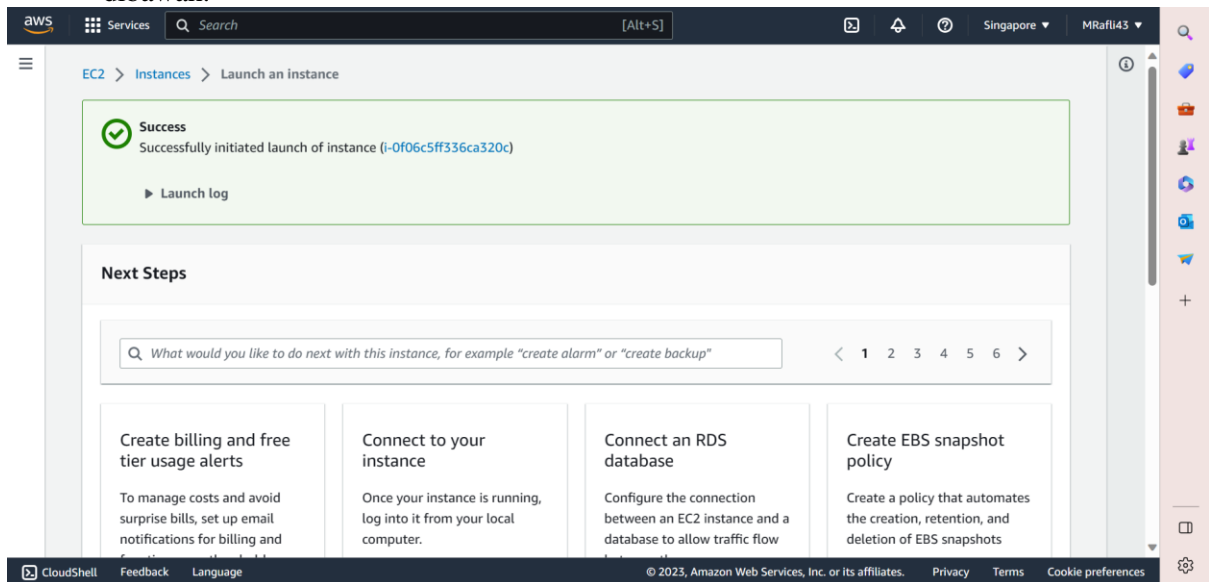
Add security group rule

Advanced network configuration

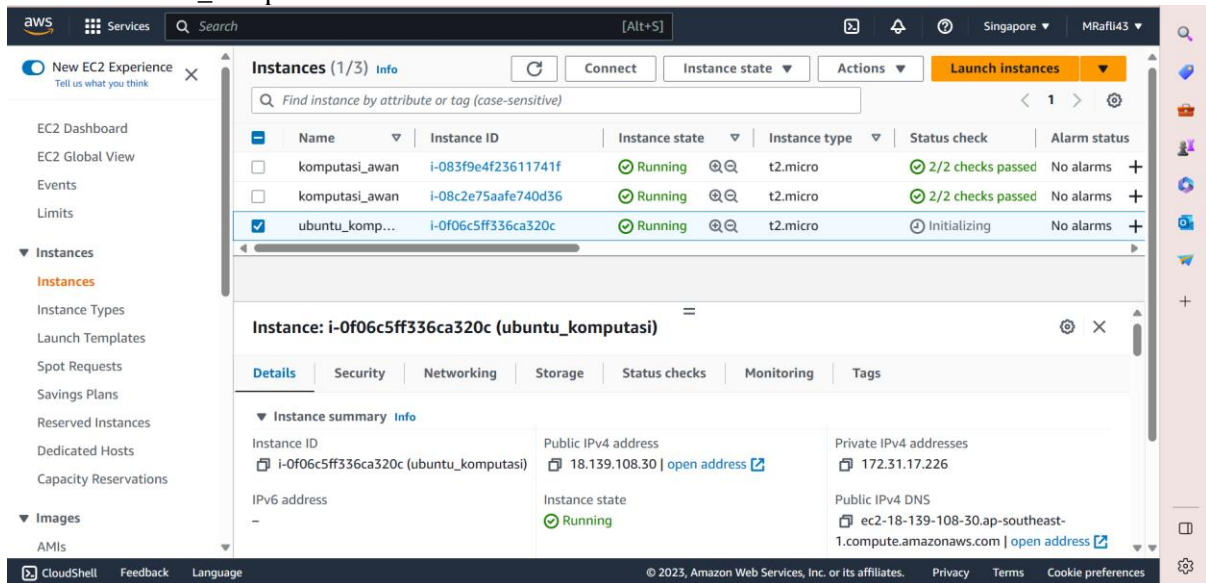
11. Setelah dirasa sudah sesuai, maka klik launch instance dan tunggu prosesnya hingga tampil success



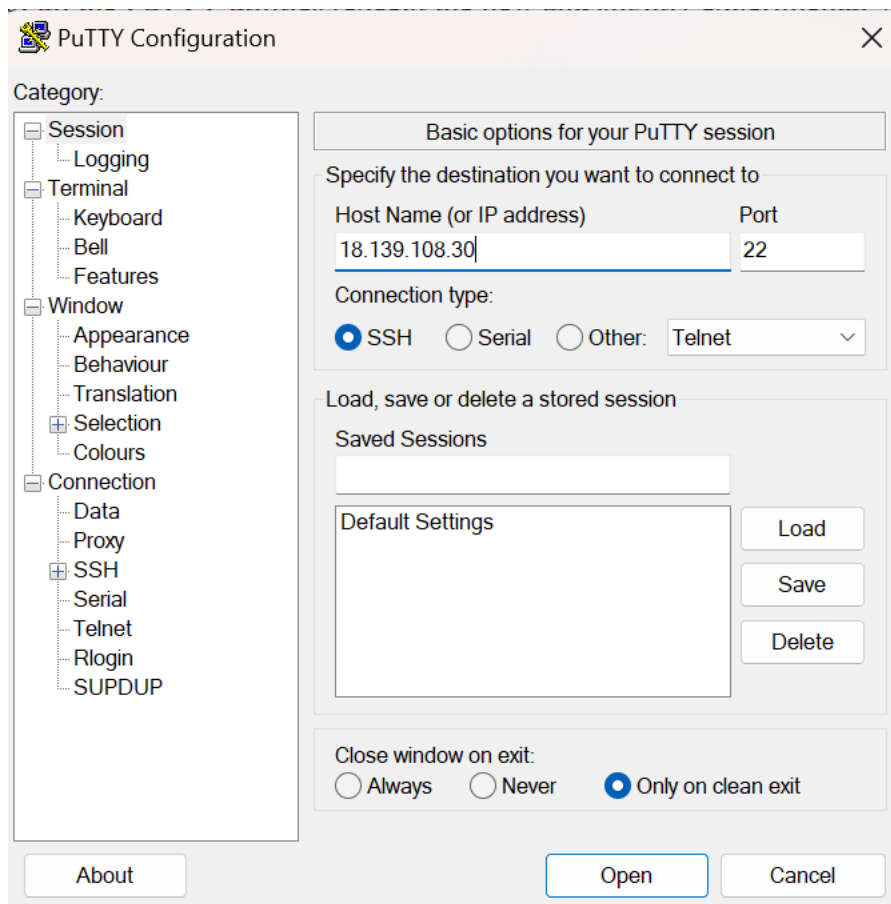
12. Setelah proses berhasil, maka tampilan pada AWS akan muncul seperti pada gambar dibawah.



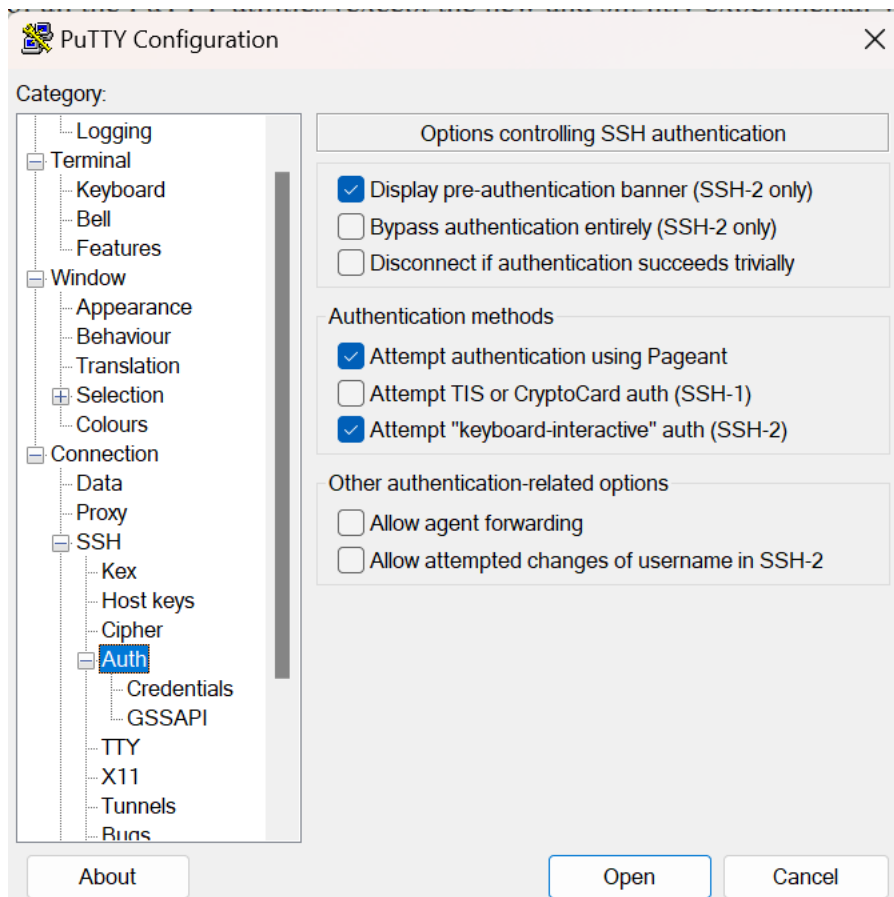
13. Setelah berhasil membuat instance baru, nama instance yang baru akan muncul dengan nama “ubuntu_komputasi”.



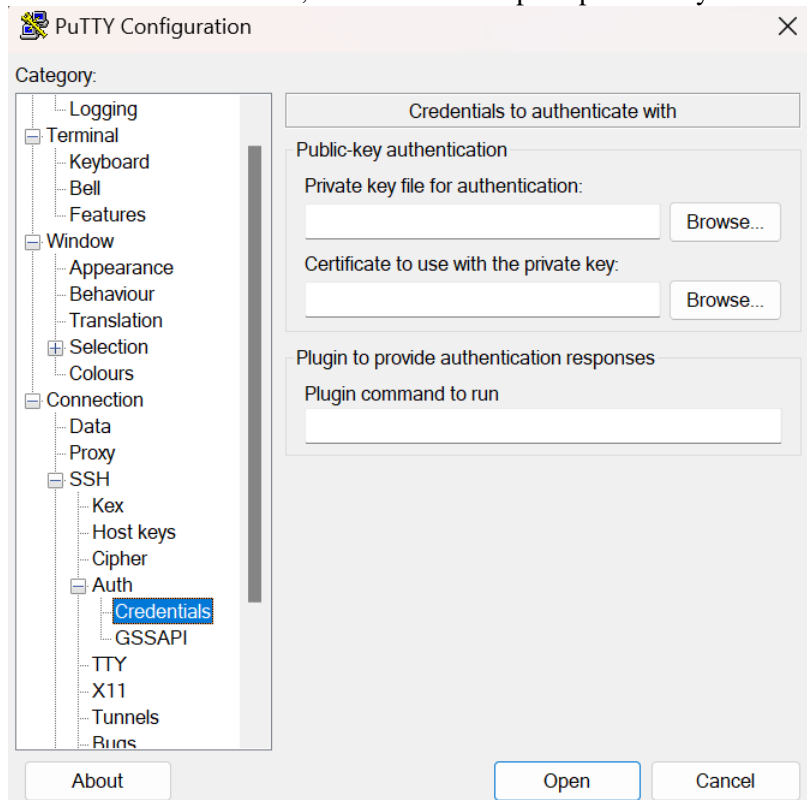
14. Download puTTY terlebih dahulu di putty.org, lalu download sesuai type windows yang digunakan. Kemudian, install dan buka aplikasi tersebut.
15. Isi IP address dengan IP publik yang ada pada instance sebelumnya.



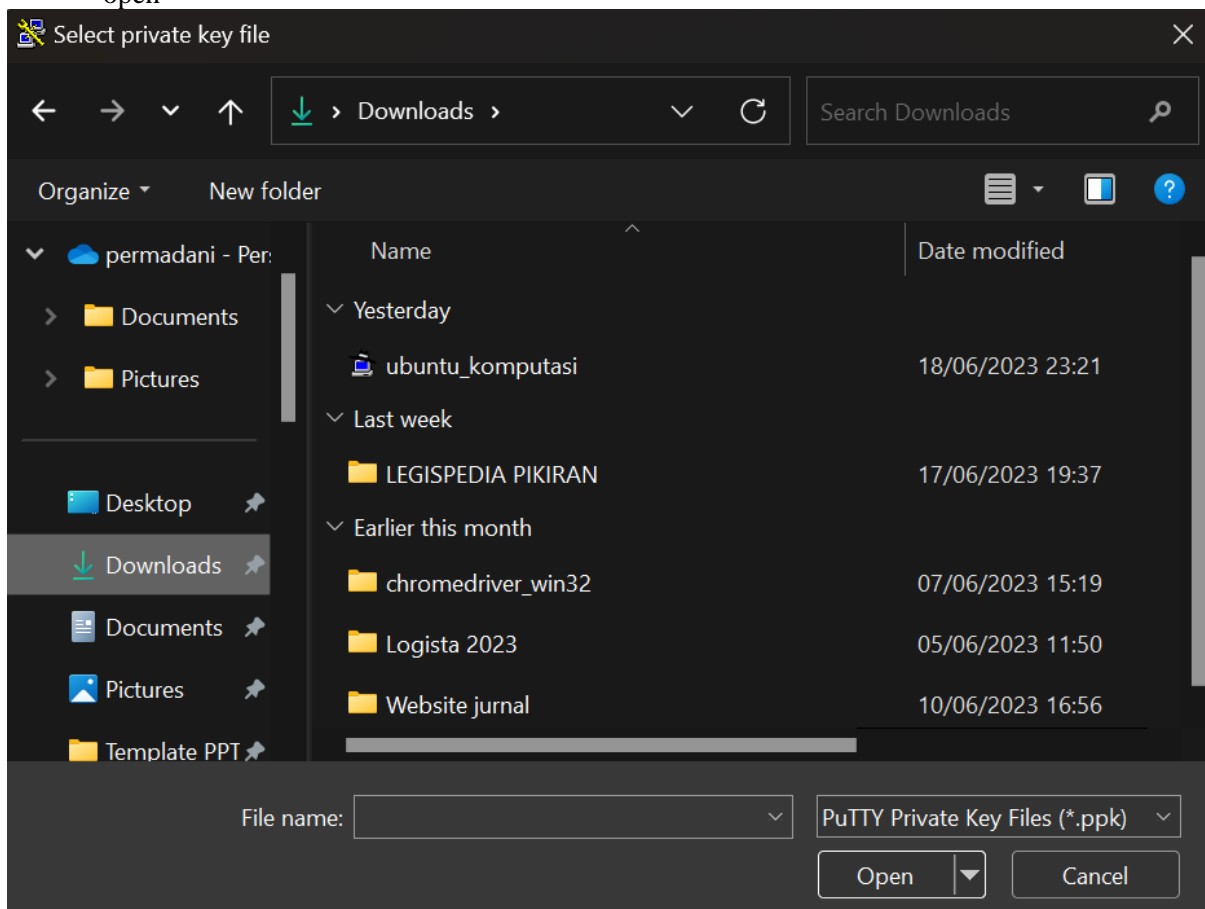
16. Buka bagian ssh lalu, pilih Auth



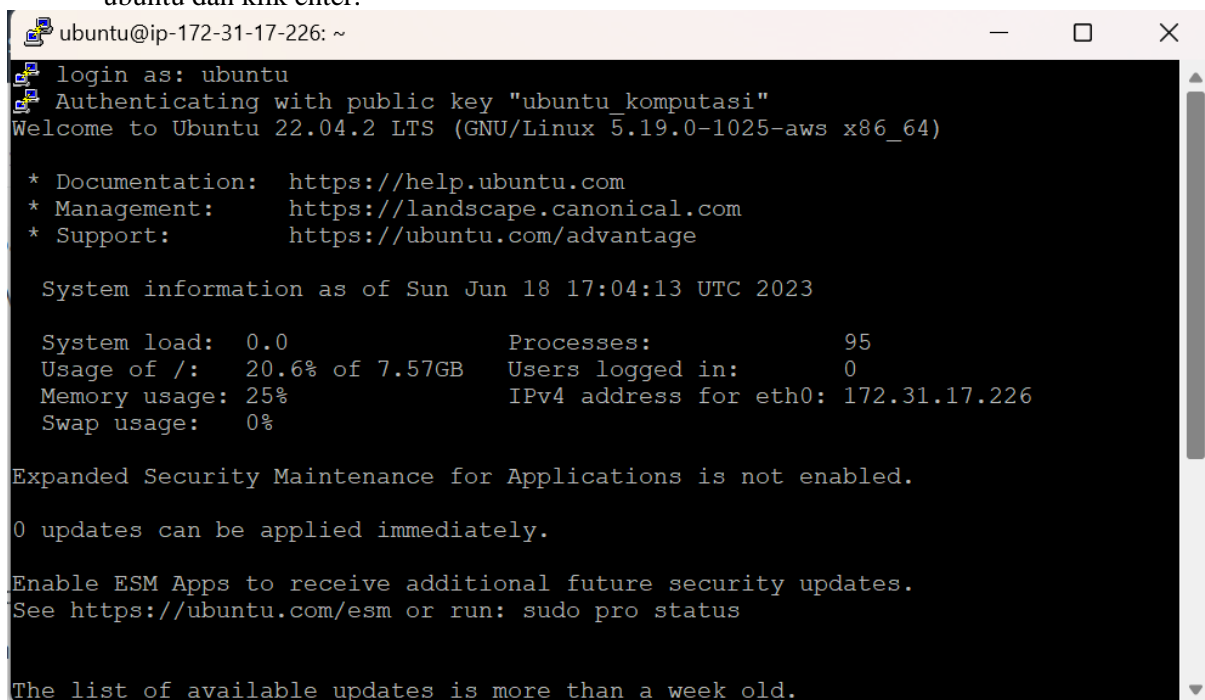
17. Pilih Credentials, lalu tekan brows pada private key file



18. Pilih file PPK yang telah dibuat sebelumnya dengan nama “ubuntu_komputasi”. Lalu klik open



19. Maka, tampilan nantinya akan seperti pada gambar dibawah ini, dan isi login as dengan ubuntu dan klik enter.



20. Program ubuntu dengan EC2 AWS telah berhasil dan dapat dijalankan.

```
ubuntu@ip-172-31-17-226: ~  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-17-226:~$ df  
Filesystem      1K-blocks    Used Available Use% Mounted on  
/dev/root        7941576 1651640   6273552  21% /  
tmpfs            494460      0    494460   0% /dev/shm  
tmpfs            197784      832   196952   1% /run  
tmpfs             5120       0     5120   0% /run/lock  
/dev/xvda15      106858     6182   100677   6% /boot/efi  
tmpfs            98892       4    98888   1% /run/user/1000  
ubuntu@ip-172-31-17-226:~$
```

DAFTAR PUSTAKA

Addicted One. (2023). How to create Ubuntu 22.04 server on AWS Ec2 | AWS tutorial [YouTube Video]. In YouTube. <https://www.youtube.com/watch?v=tr0jdi-DkEc>