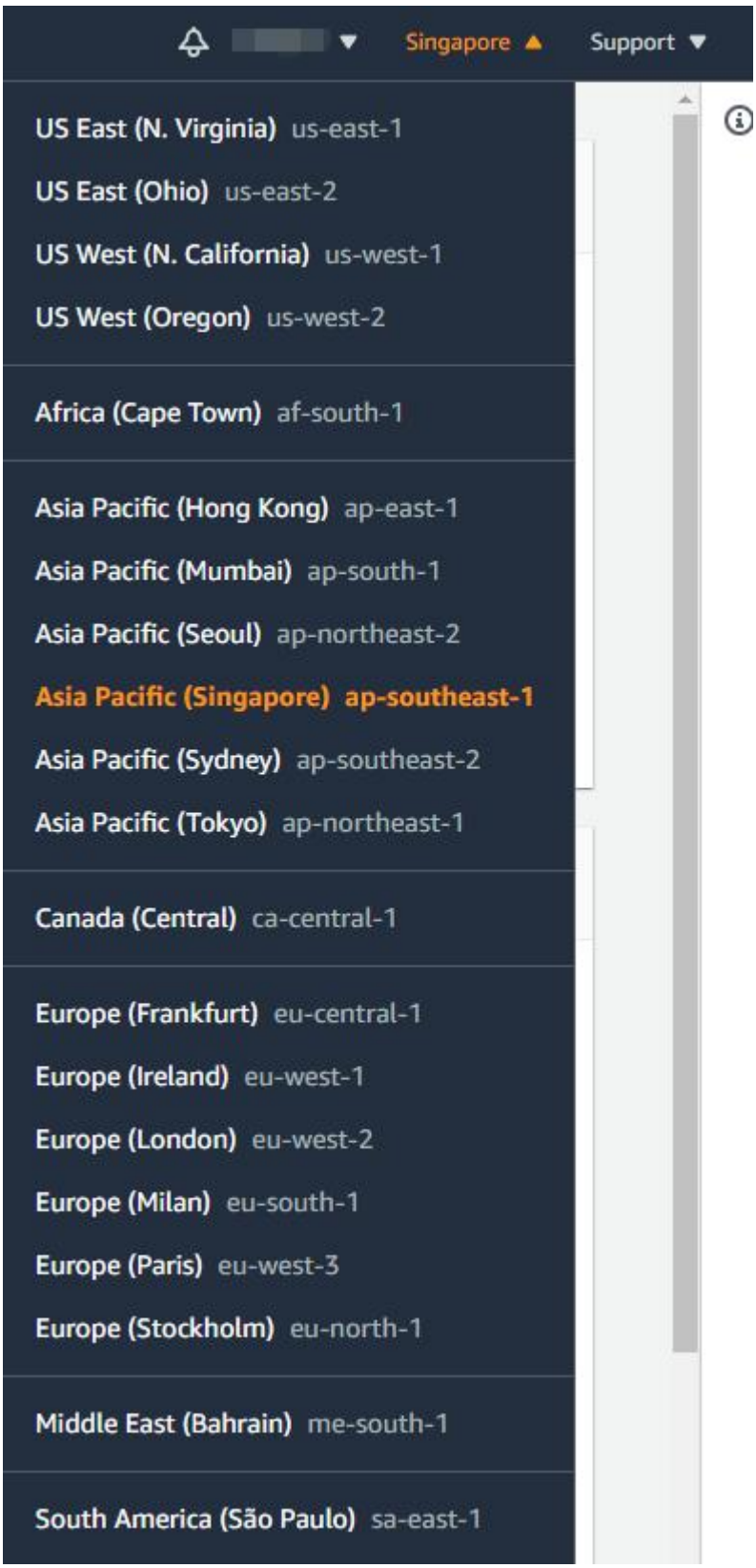
How to Build C3 Bonding Server by AWS EC2
For Ubuntu 18.04

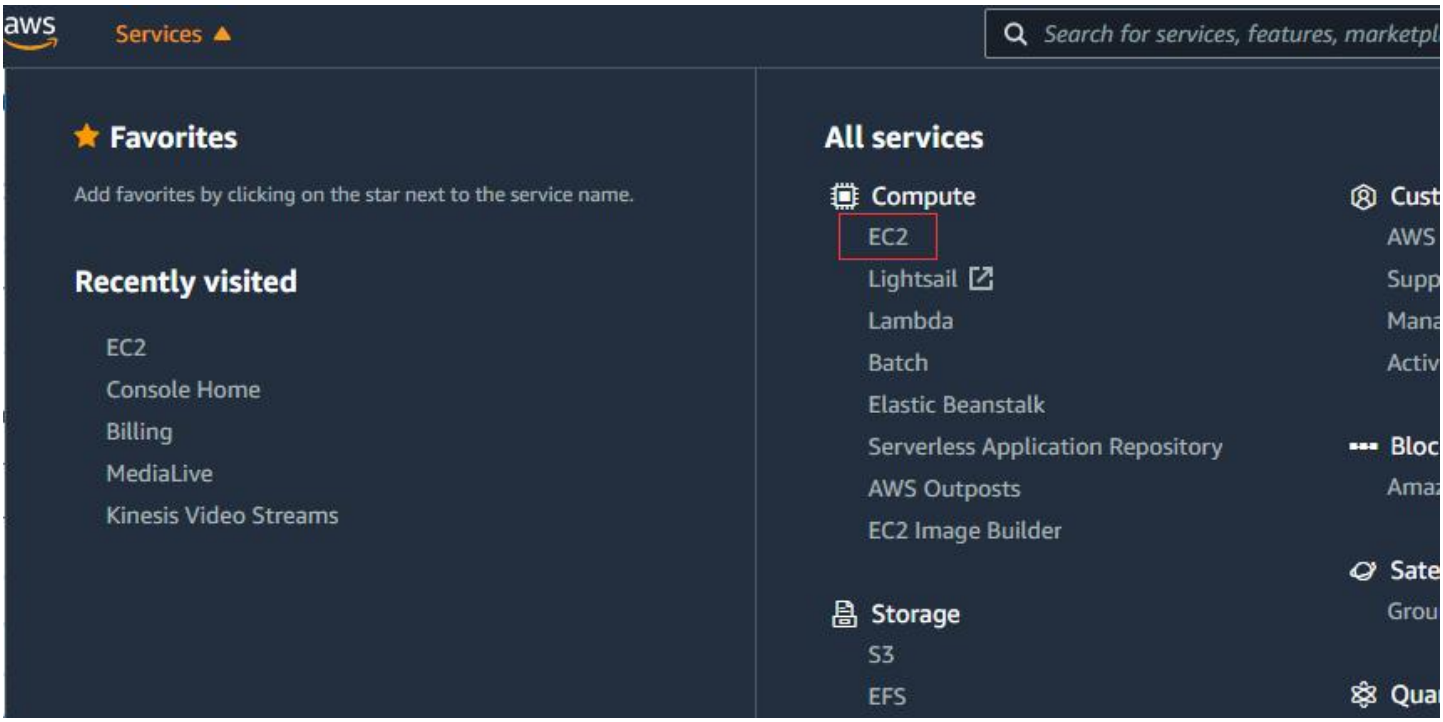
V1.0, Nov 2, 2023

1. Visit https://aws.amazon.com, register and and complete your account verification.

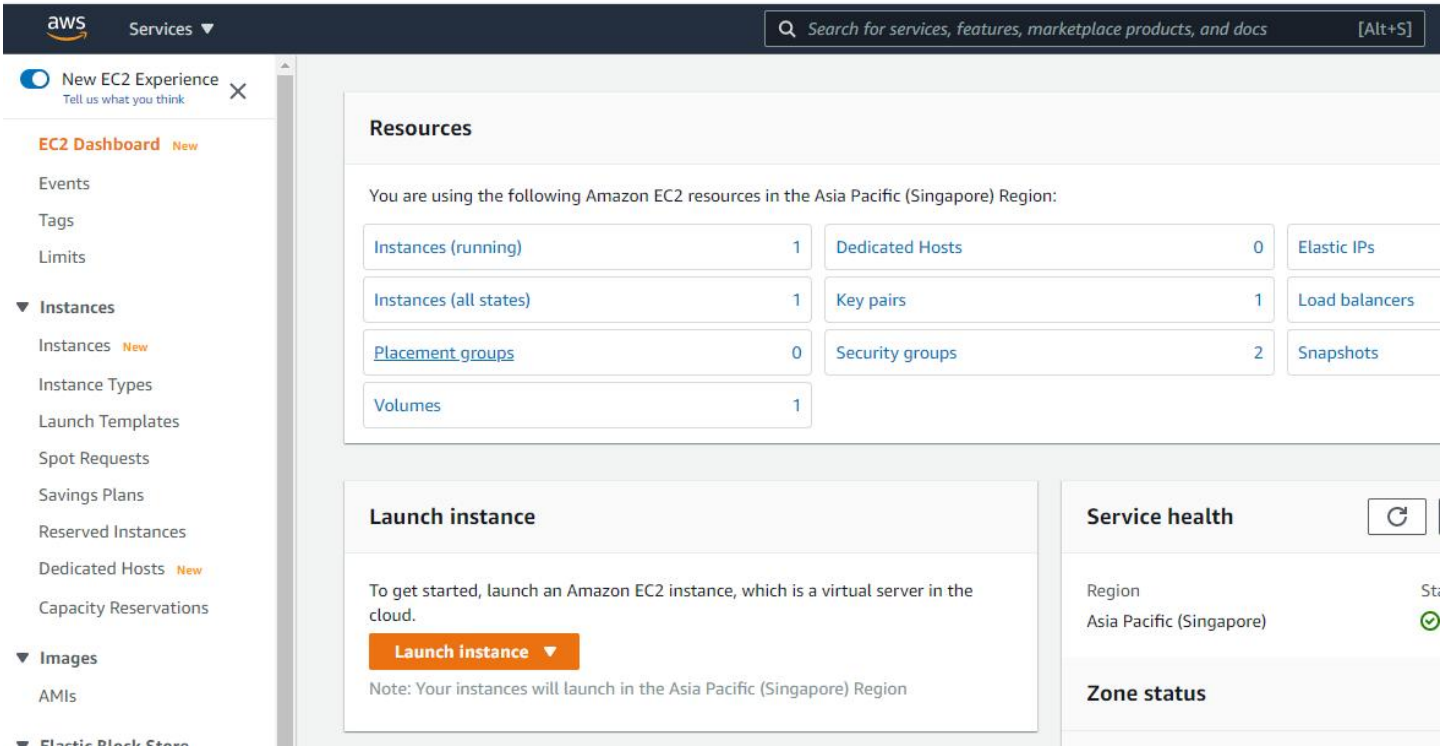
a. Choose the region that suits you best.



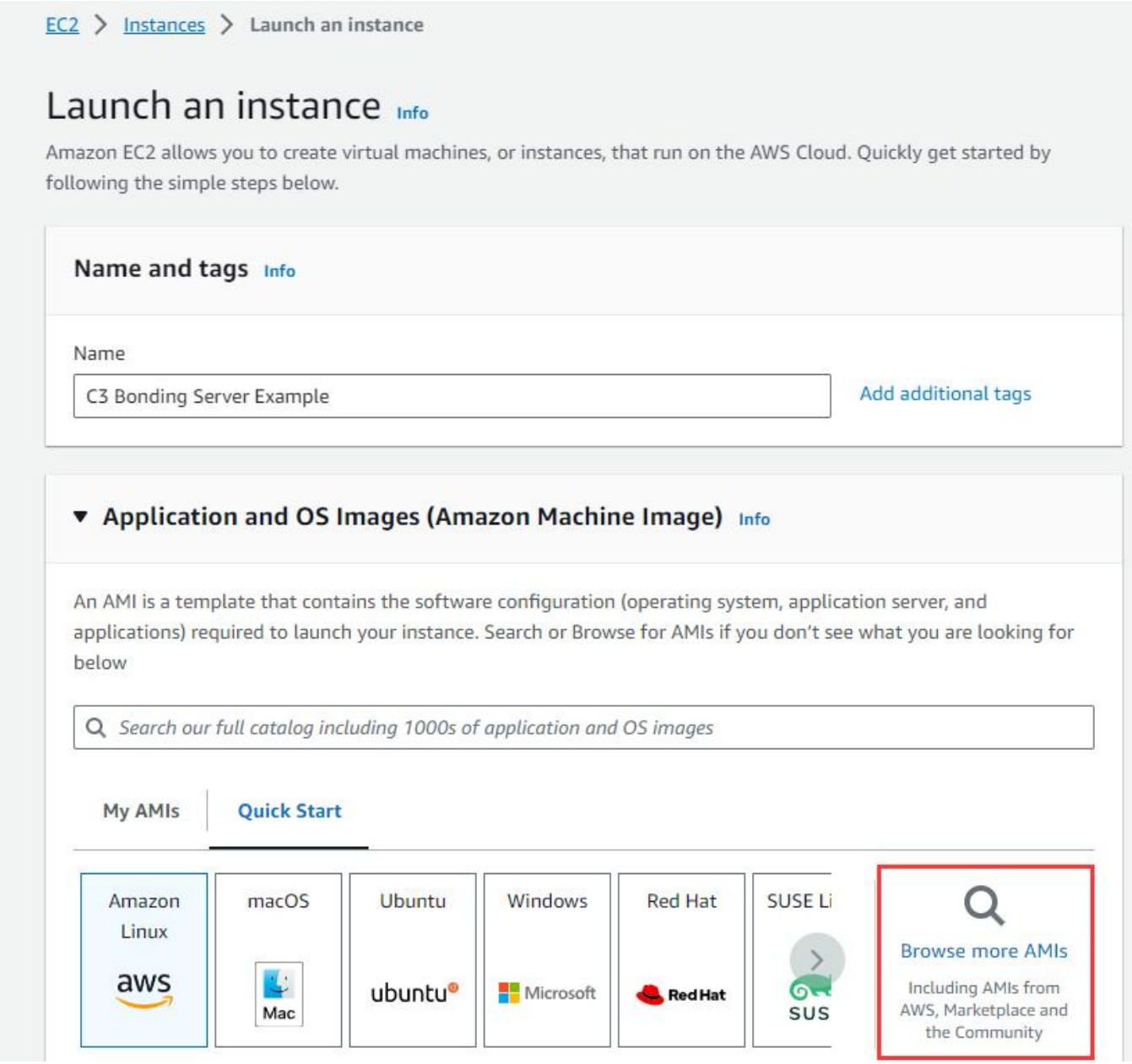
b. Select EC2 from the drop-down service menu.

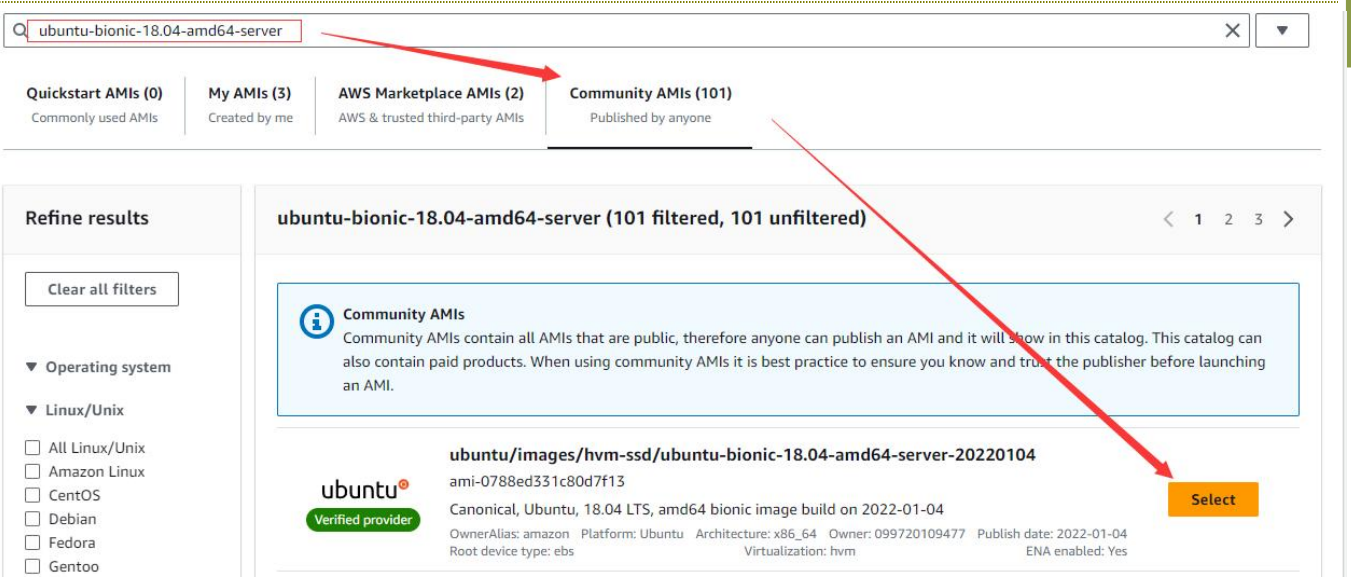


c. Click Launch instance

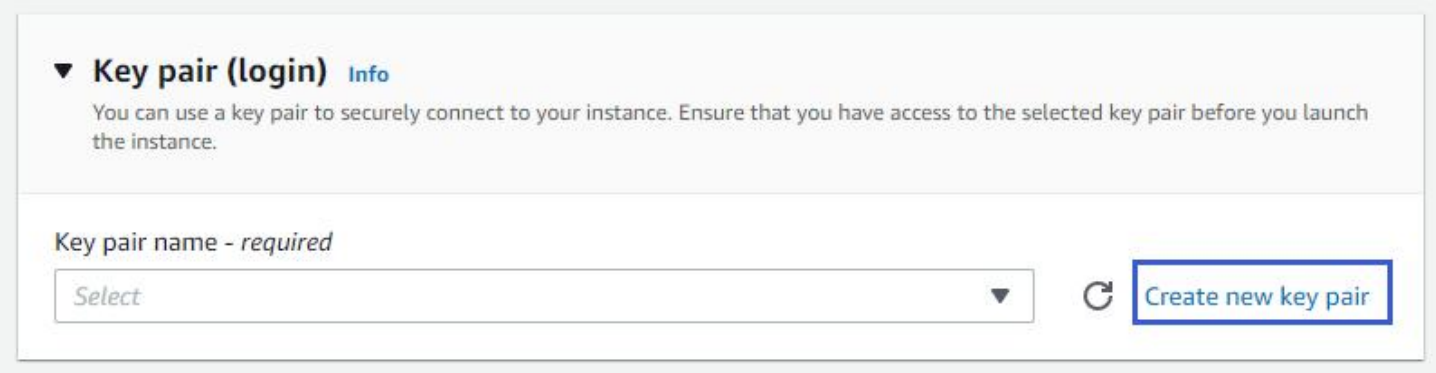


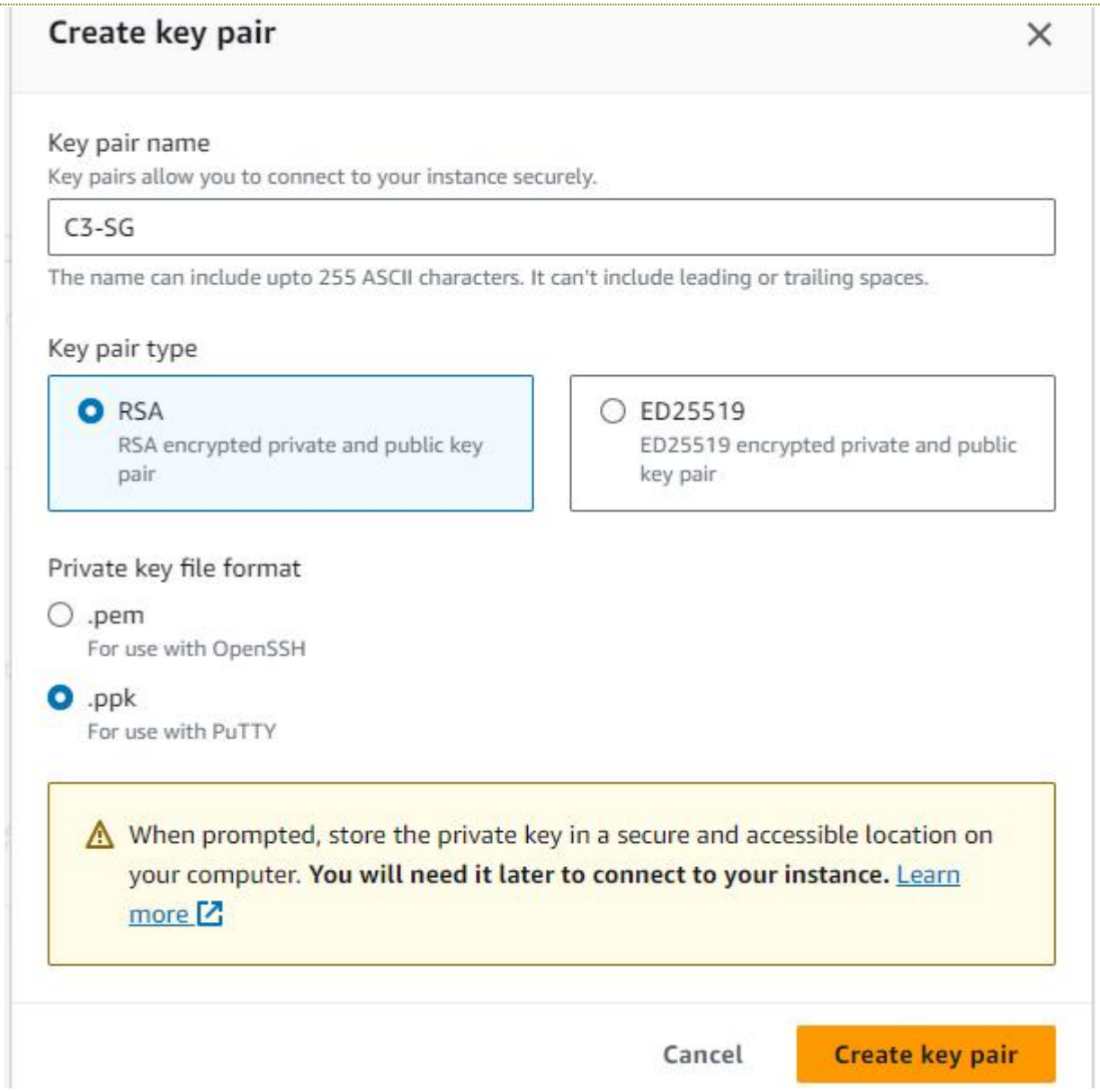
d. Click on "Browse more AMIs", type "ubuntu-bionic-18.04-amd64-server" &search, then select the correct one,



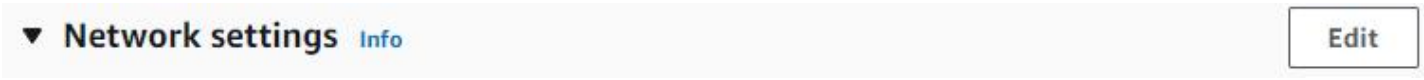


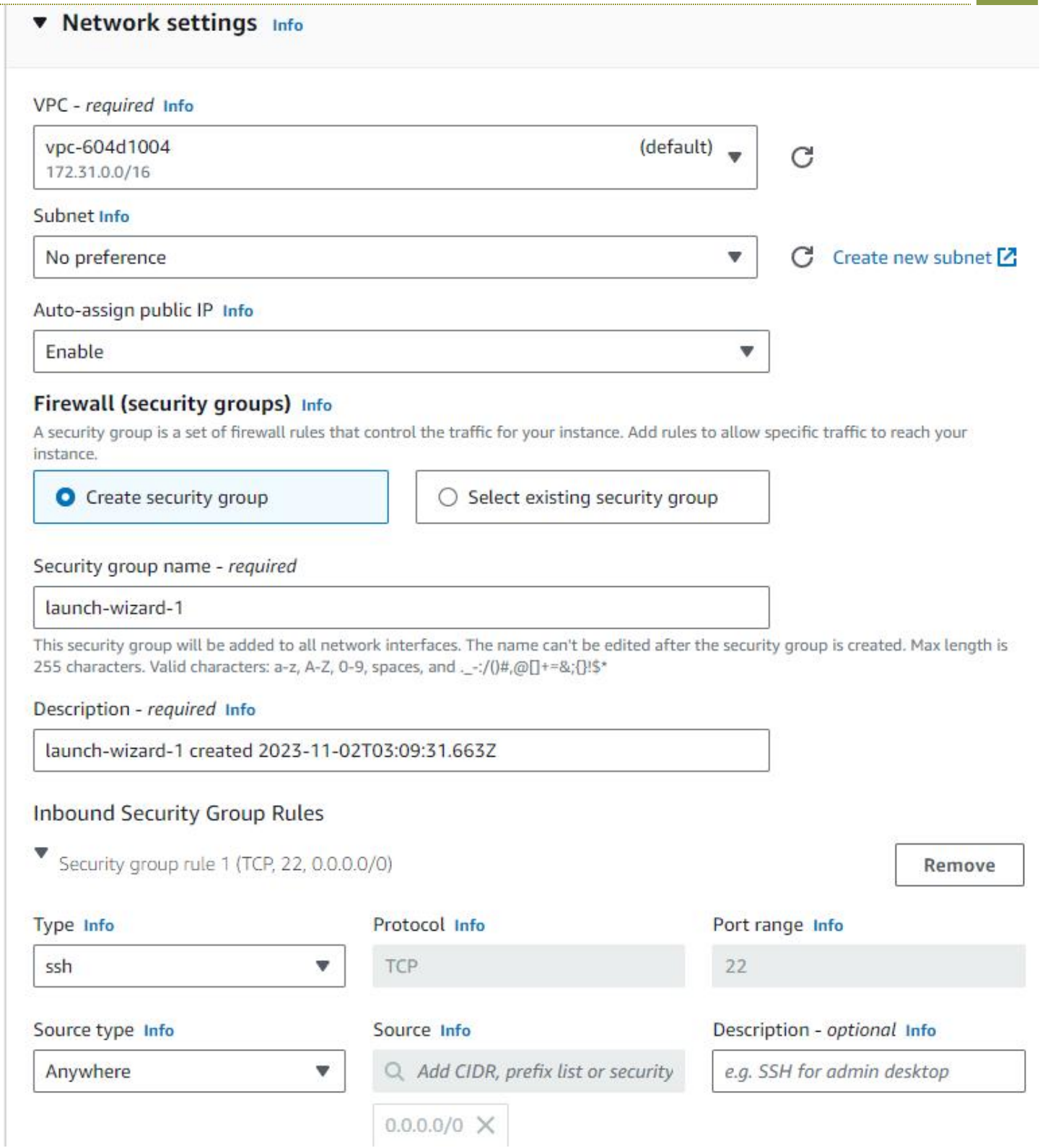
e. Select the exist Key pair or Create new key pair – Private key file format based on your demand, you can choose .pem or .ppk then click Create key pair and save it. For Windows OS – select the ppk would be better (Connect with PuTTY).





f. Network settings – Click "Edit" to set Inbound rules. You can open the ports as per your requirements. It is suggested to open port 22 for SSH, port 54321 for the bonding server admin panel, and port 54322 for aggregating traffic.

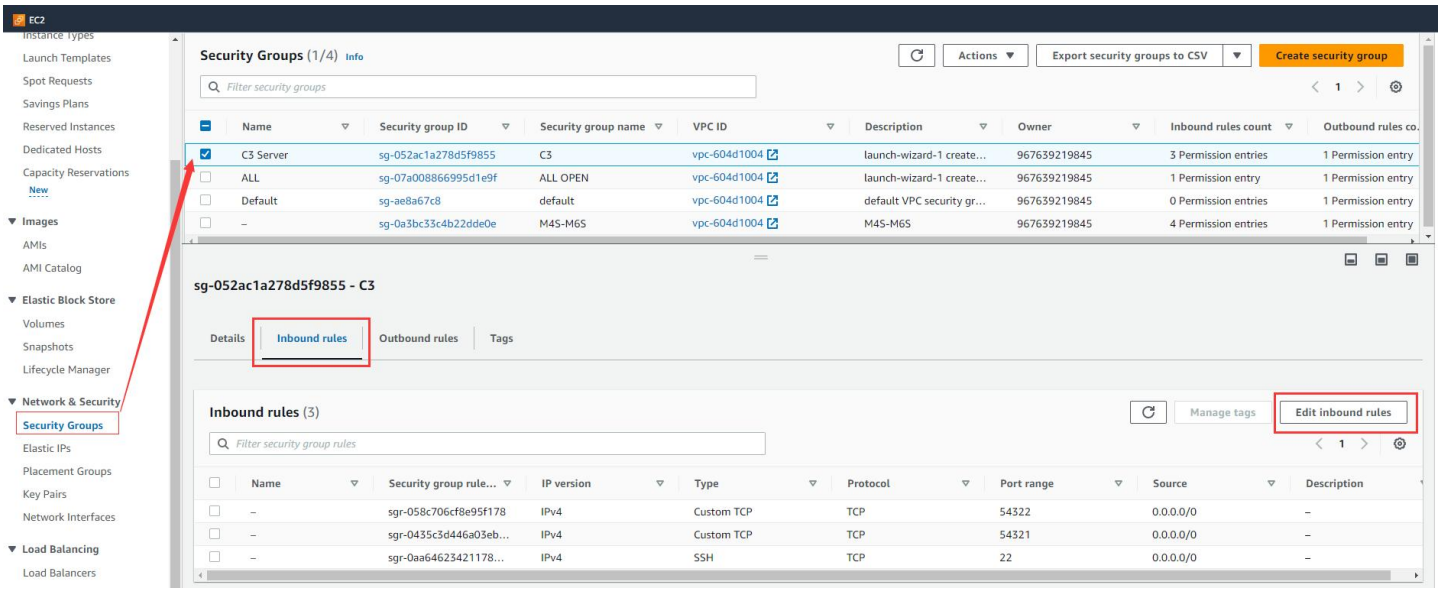


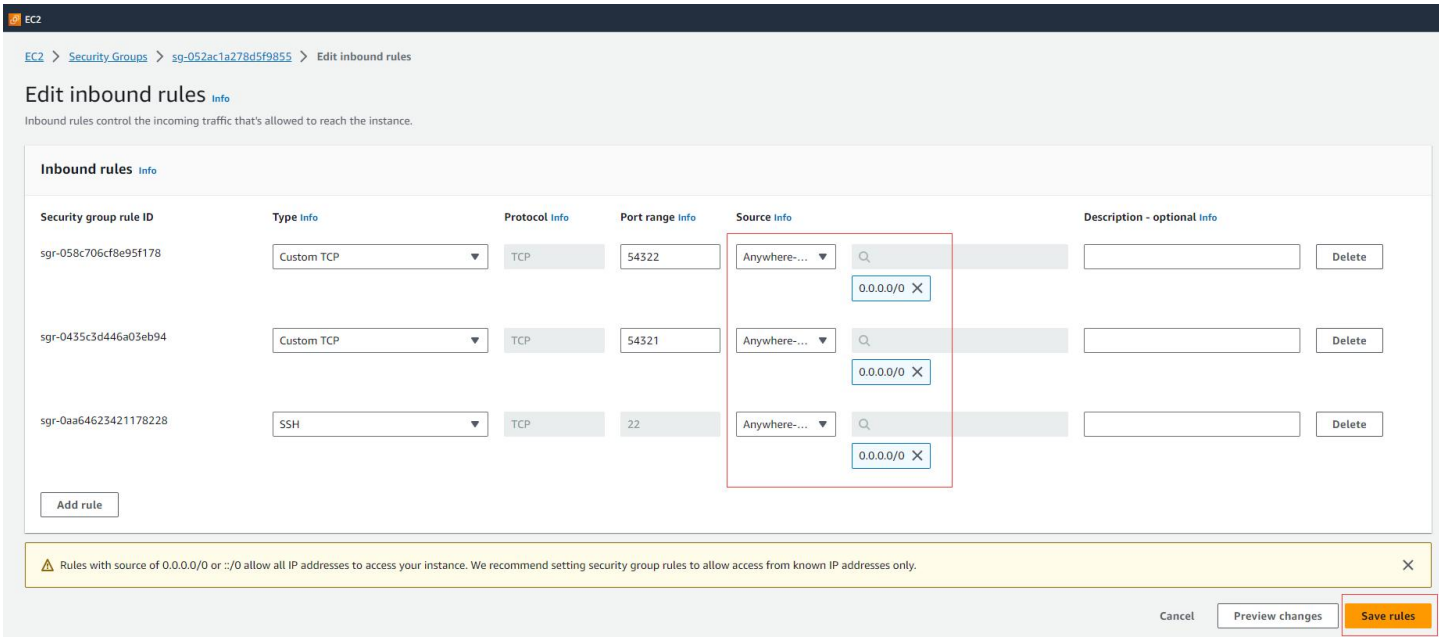


for the “Inbound Security Group Rules”,
once an EC2 instance is created, you can modify its associated security groups at any time.
Here are the steps to modify the inbound rules for a security group:
1. In the navigation pane, choose 'Security Groups'.
2. Select the security group that's associated with the EC2 instance.

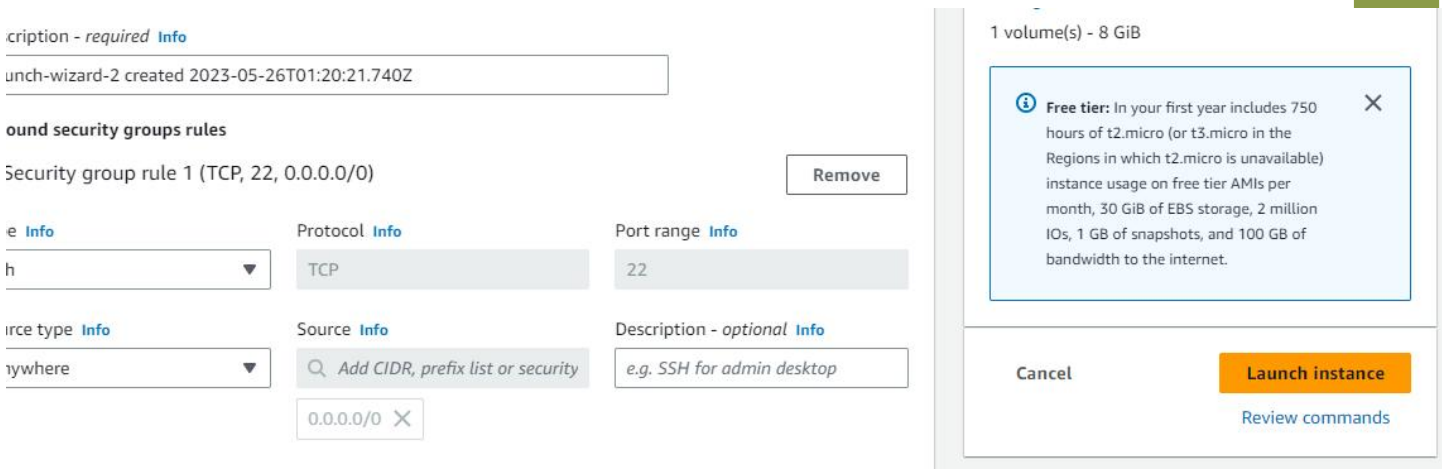
3. Choose the 'Inbound rules' tab, and then choose 'Edit inbound rules'.
4. In the dialog box, you can add, remove, or modify rules.
5. When you're done, choose 'Save rules'.

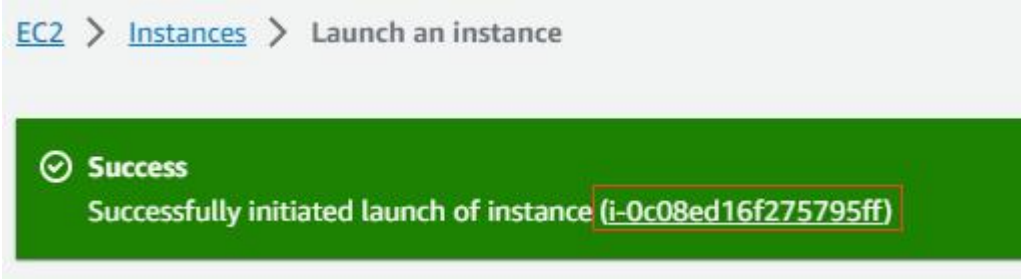
Please note that these changes will take effect immediately, and traffic that's not allowed by the rules is automatically dropped. Also, remember to follow best practices for security group rules to ensure your resources are protected.





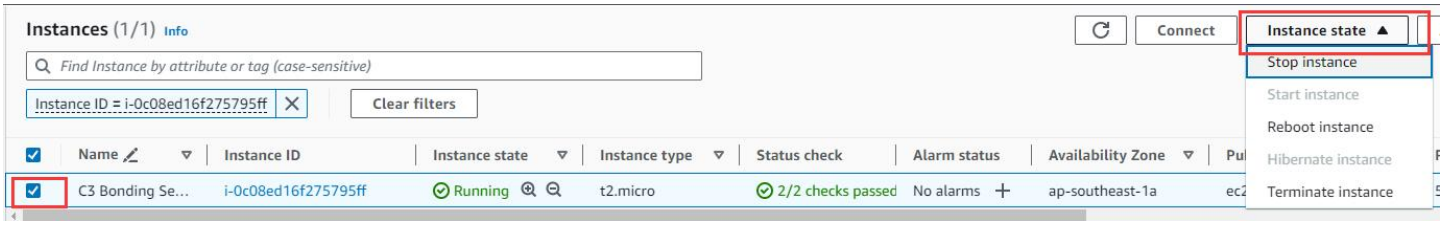
g. Launch Instance – click the launched instance,





h. Start & Stop Terminate EC2

If you're not using the server all the time, you can stop the instance to save costs. When you need to use the instance again, you can start it. However, please note that once restarted, the server's public IPv4 will change. If you want your C3 server IP to remain consistent with your EC2 instance's IP, you might need to consider using Elastic IP. Elastic IP is a static IPv4 address provided by AWS that can be bound to any instance. Even if the instance is stopped and restarted, the Elastic IP remains unchanged. This way, you can ensure that the IP address remains the same no matter when the EC2 instance is started or stopped. But please note that while each AWS account has one free Elastic IP, AWS will charge a certain fee if the Elastic IP is not bound to a running instance. Therefore, it's best to release the Elastic IP when not using the EC2 instance to avoid additional fees.

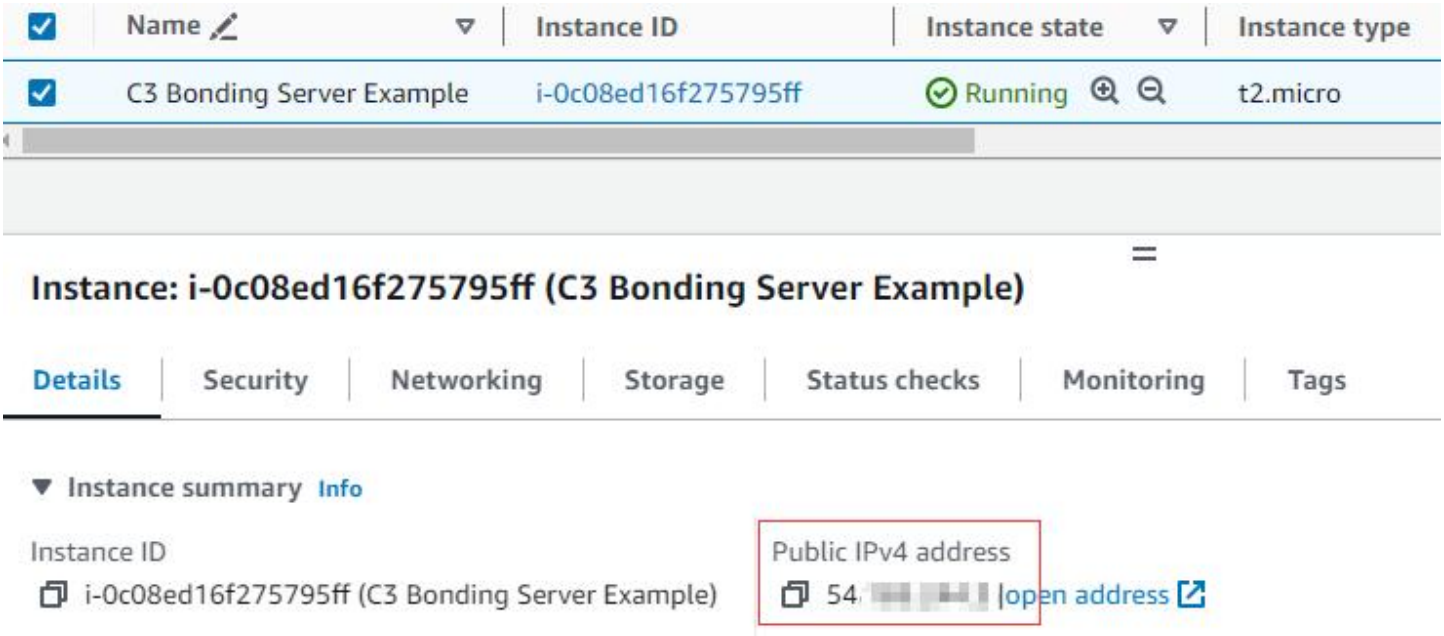


2. Connect to Amazon EC2 Instance & install the bonding software on it.

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AccessingInstances.html

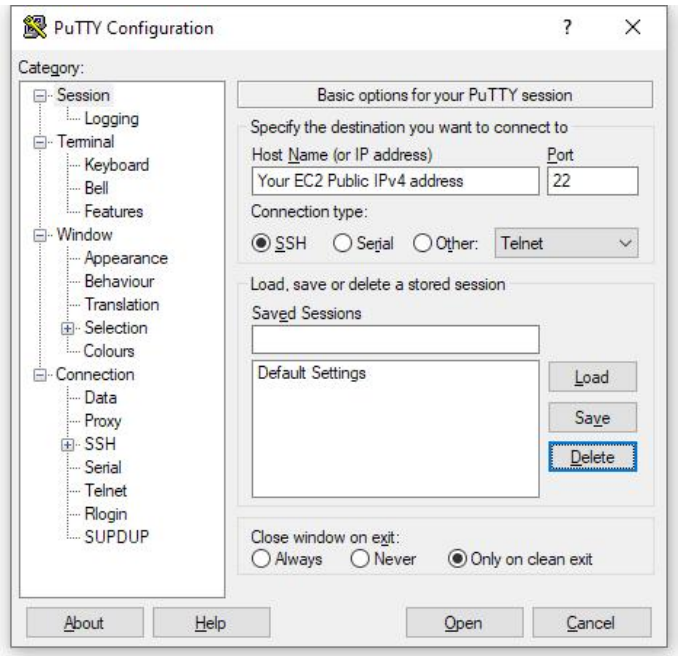
Here from Windows OS with PuTTY , you can download the PuTTY here,

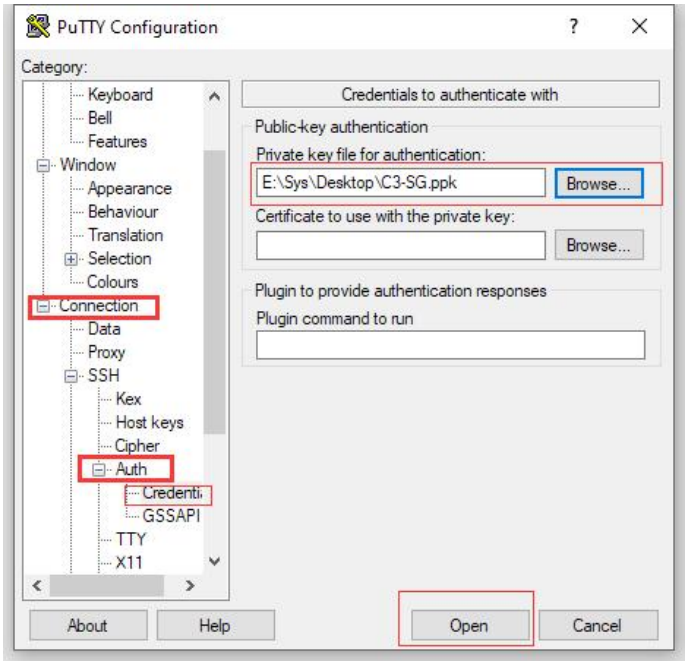
https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html



1. Launch PuTTY.
2. In the 'Host Name (or IP address)' field, paste the EC2 Public IPv4 address.
3. Ensure that the 'Port' is set to 22 and 'Connection type' is set to SSH.
4. In the 'Category' pane on the left, expand 'Connection', expand 'SSH', then 'Auth', select the Credentials,
5. Click 'Browse' and select the .ppk file that you saved earlier.
6. Click 'Open' to start the PuTTY session.

If a security alert about the host key is not cached for this server, choose 'Accept' to add the key to PuTTY's cache and connect to your instance.





login as ubuntu, type sudo –s switch to root, by below commands (this commands may update, please contact with the seller or our tech support to get the latest) to install the bonding software,

wget https://gitee.com/link4all_admin/vps/raw/master/debian_ubuntu_install.sh -O debian_ubuntu_install.sh && sh debian_ubuntu_install.sh

```
root@ip-172-31-17-189: ~
login as: ubuntu
Authenticating with public key "C3-SG"
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 5.4.0-1061-aws x86_64)

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

  System information as of Thu Nov  2 03:34:39 UTC 2023

  System load:  0.0               Processes:           93
  Usage of /:   15.0% of 7.69GB   Users logged in:     0
  Memory usage: 20%               IP address for eth0: 172.31.17.189
  Swap usage:   0%

0 updates can be applied immediately.



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-172-31-17-189:~$ sudo -s
root@ip-172-31-17-189:~# wget https://gitee.com/link4all_admin/vps/raw/master/de
bian_ubuntu_install.sh -O debian_ubuntu_install.sh && sh debian_ubuntu_install.s
h
```

when in installing, if any promotion, type Y and click Enter to continue

```
  iptables-persistent netfilter-persistent
0 upgraded, 2 newly installed, 0 to remove and 3 not upgraded.
Need to get 13.8 kB of archives.
After this operation, 89.1 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

Reboot the EC2 server by reboot command after the bonding software installed.

```
install.sh: 99: echo Success, please allow TCP ports 59999, 60011 (for network bondin
root@ip-172-31-12-224:/home/ubuntu# reboot
```

To check your server port open status by http://adminkit.net/telnet.aspx

54.[redacted] | 54321 | Connect

Connection Status : **Connection to 54.[redacted] on port 54321 was successfull**