

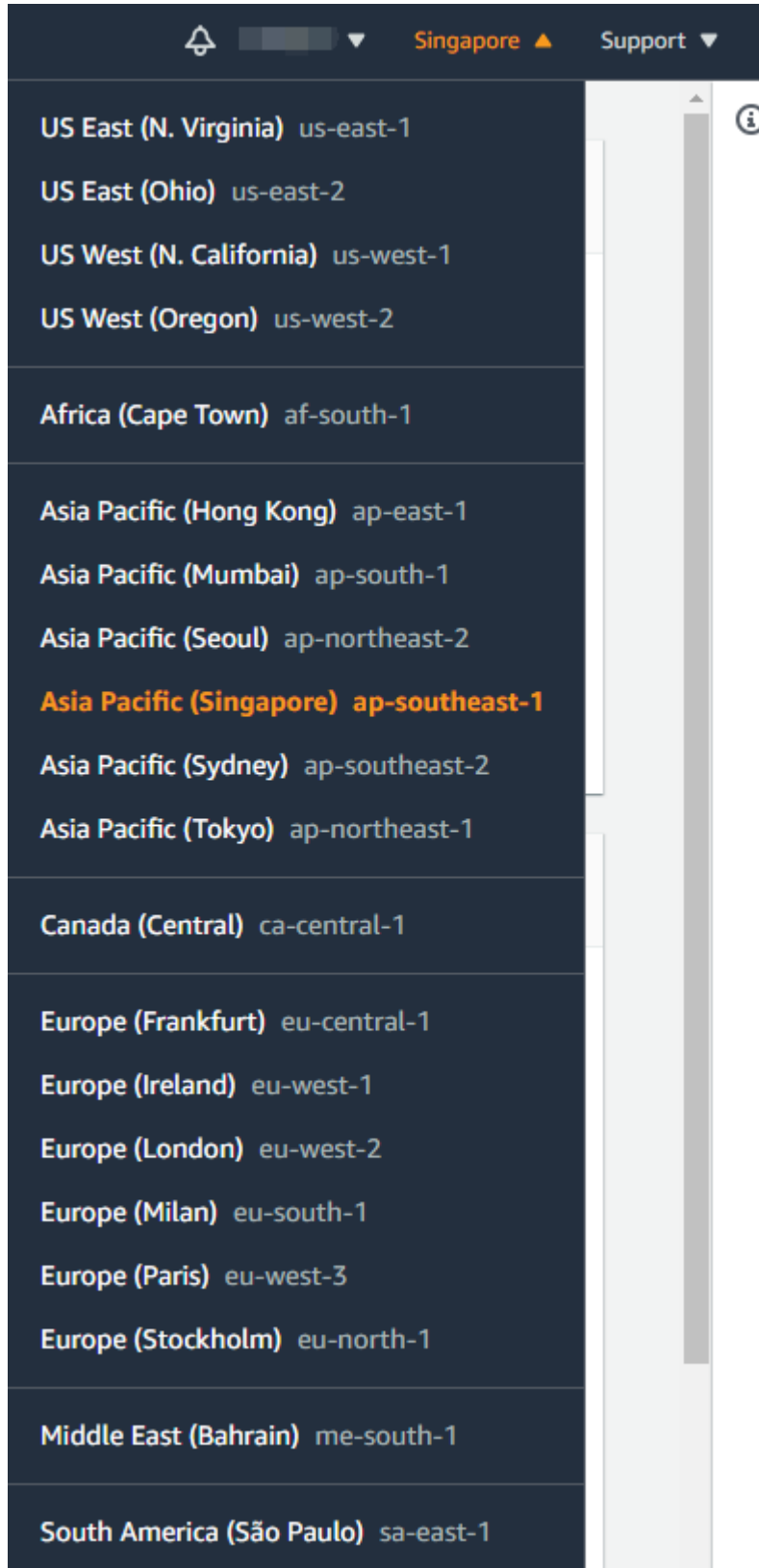
How to Buy & Build Bonding Server by AWS EC2

For Debian 9.13

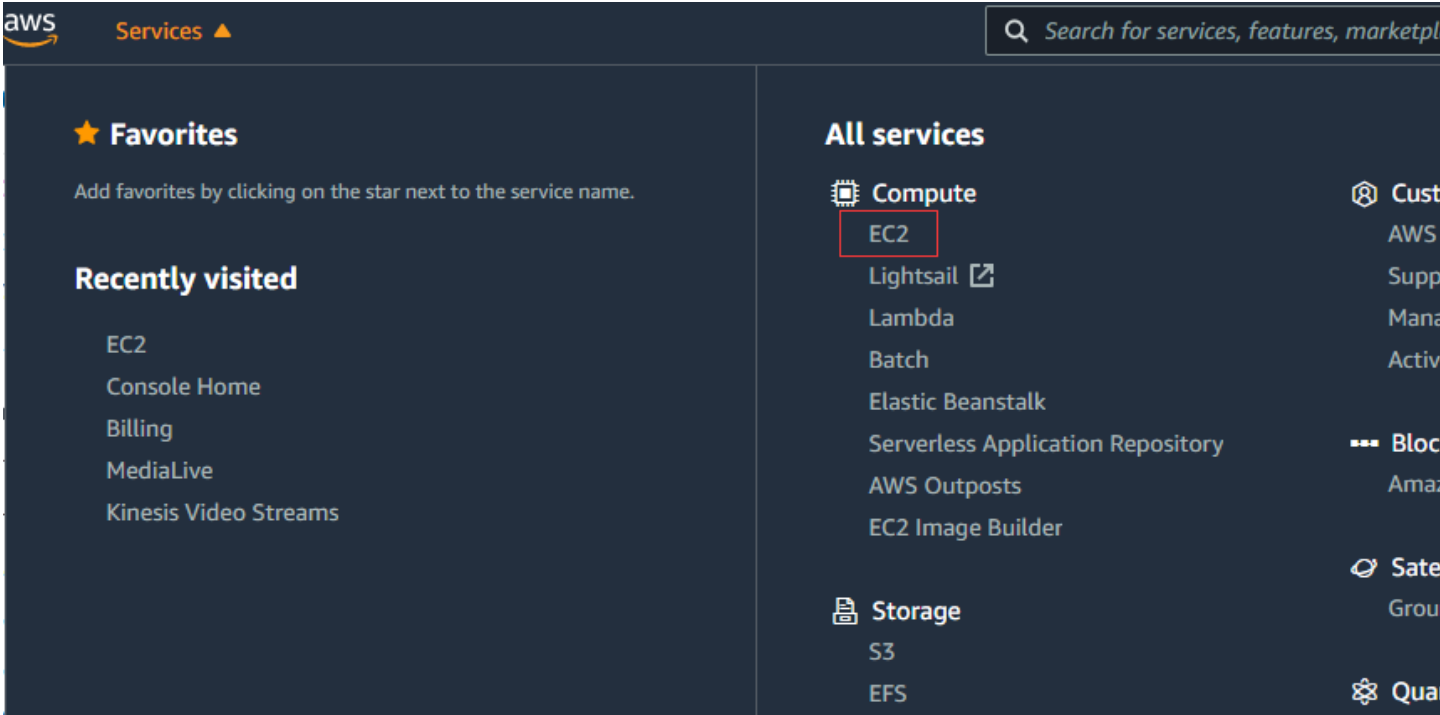
V1.9, June 17, 2022

1. Click <https://aws.amazon.com>, sign in and verify your account.

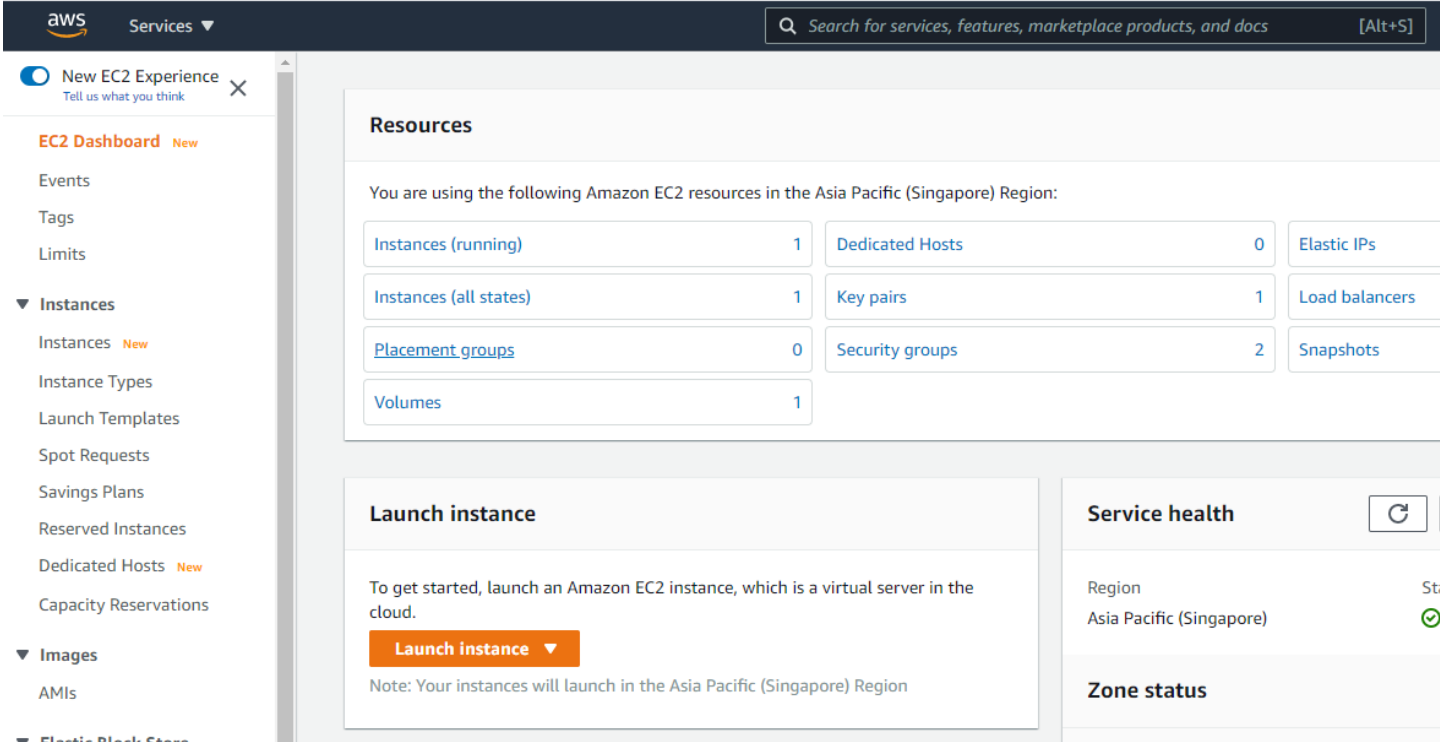
a. Select the **region** which best for you.



b. Pull down the Services, and click the EC2,



c. Launch instance



d. search debian, then click the **AWS Marketplace**, select the **the Debian GNU/Linux 9 (Stretch) 9.13 recommend.**

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Yo

e. Here as t2 micro 1 Year Free as example or choose the t2.nano, actually base on your demands,

Debian GNU/Linux 9 (Stretch)

Debian is a computer operating system composed of software packages released as free and open source software primarily under the GNU General Public License along with other free software licenses. Debian GNU/Linux, which includes the GNU OS tools and Linux kernel, is a popular and influential Linux distribution. It is distributed with access to ...

Free tier eligible

Product Details

- By** Debian
- Customer Rating** ★★★★★ (7)
- Latest Version** Debian GNU/Linux 9 LTS 20210623
- Base Operating System** Linux/Unix, Debian 9.13+20210623
- Delivery Method** 64-bit (x86) Amazon Machine Image (AMI)
- License Agreement** [End User License Agreement](#)
- On Marketplace Since** 6/30/17

Highlights

- After 26 months of development the Debian project is proud to present its new stable version 9 (code name "Stretch"), which will be supported for the

Pricing Details

Hourly Fees

Instance Type	Software	EC2	Total
t2.nano	\$0.00	\$0.007	\$0.007/hr
t2.micro	\$0.00	\$0.015	\$0.015/hr
t2.small	\$0.00	\$0.029	\$0.029/hr
t2.medium	\$0.00	\$0.058	\$0.058/hr
t2.large	\$0.00	\$0.117	\$0.117/hr
t2.xlarge	\$0.00	\$0.234	\$0.234/hr
t2.2xlarge	\$0.00	\$0.467	\$0.467/hr
t3.nano	\$0.00	\$0.007	\$0.007/hr
t3.micro	\$0.00	\$0.013	\$0.013/hr
t3.small	\$0.00	\$0.026	\$0.026/hr
t3.medium	\$0.00	\$0.053	\$0.053/hr
t3.large	\$0.00	\$0.106	\$0.106/hr
t3.xlarge	\$0.00	\$0.211	\$0.211/hr
t3.2xlarge	\$0.00	\$0.422	\$0.422/hr
t3a.nano	\$0.00	\$0.006	\$0.006/hr
t3a.micro	\$0.00	\$0.012	\$0.012/hr
t3a.small	\$0.00	\$0.024	\$0.024/hr

[Cancel](#) [Continue](#)

- 1. Choose AMI
- 2. Choose Instance Type
- 3. Configure Instance
- 4. Add Storage
- 5. Add Tags
- 6. Configure Security Group
- 7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All Instance Families | Current generation | Show/Hide Columns

Currently selected: t2.micro (- ECU, 1 vCPU, 2.5 GHz, -, 1 GiB memory, EBS only)
 Note: The vendor recommends using a t3.micro instance (or larger) for the best experience with this product.

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.xlarge	4	16	EBS only	Yes	Up to 5 Gigabit	Yes

f. 3rd Picture - Configure Instance Details-Auto assign public IP -Enable

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: Launch into Auto Scaling Group

Purchasing option: Request Spot instances

Network: vpc-604d1004 (default)

Subnet: No preference (default subnet in any Availability Zone)

Auto-assign Public IP: Enable

Placement group: Add instance to placement group

Capacity Reservation:

Domain join directory: No directory

IAM role: None

CPU options: Specify CPU options

Shutdown behavior:

Stop - Hibernate behavior: Enable hibernation as an additional stop behavior

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring
Additional charges apply.

Tenancy:
Additional charges will apply for dedicated tenancy.

Credit specification: Unlimited
Additional charges may apply

g. Add storage & tags

- 1. Choose AMI
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Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-02513cfe3d1753f4c	<input type="text" value="8"/>	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

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Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum) **Value** (256 characters maximum)

This resource currently has no tags

Choose the **Add tag** button or [click to add a Name tag](#).
Make sure your **IAM policy** includes permissions to create tags.

Add Tag (Up to 50 tags maximum)

h. 6 - Configure Security Group

- 1. Choose AMI
- 2. Choose Instance Type
- 3. Configure Instance
- 4. Add Storage
- 5. Add Tags
- 6. Configure Security Group
- 7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group
 Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source
All traffic	All	0 - 65535	Anywhere 0.0.0.0/0, ::/0

Add Rule

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

i. 7 Review Instance Launch

- 1. Choose AMI
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- 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

Warning Improve your instances' security. Your security group, Debian GNU-Linux 9 -Stretch--Debian GNU-Linux 9-13-AutogenByAWSMP-, is open to the world. Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)

Debian GNU/Linux 9 (Stretch)
FAI Debian image
Free tier eligible Root Device Type: ebs Virtualization type: hvm

Hourly Software Fees: \$0.00 per hour on t2.micro instance. Additional taxes or fees may apply. Software charges will begin once you launch this AMI and continue until you terminate the instance.
By launching this product, you will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's End User License Agreement.

Instance Type [Edit instance type](#)

Instance Type	ECLS	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

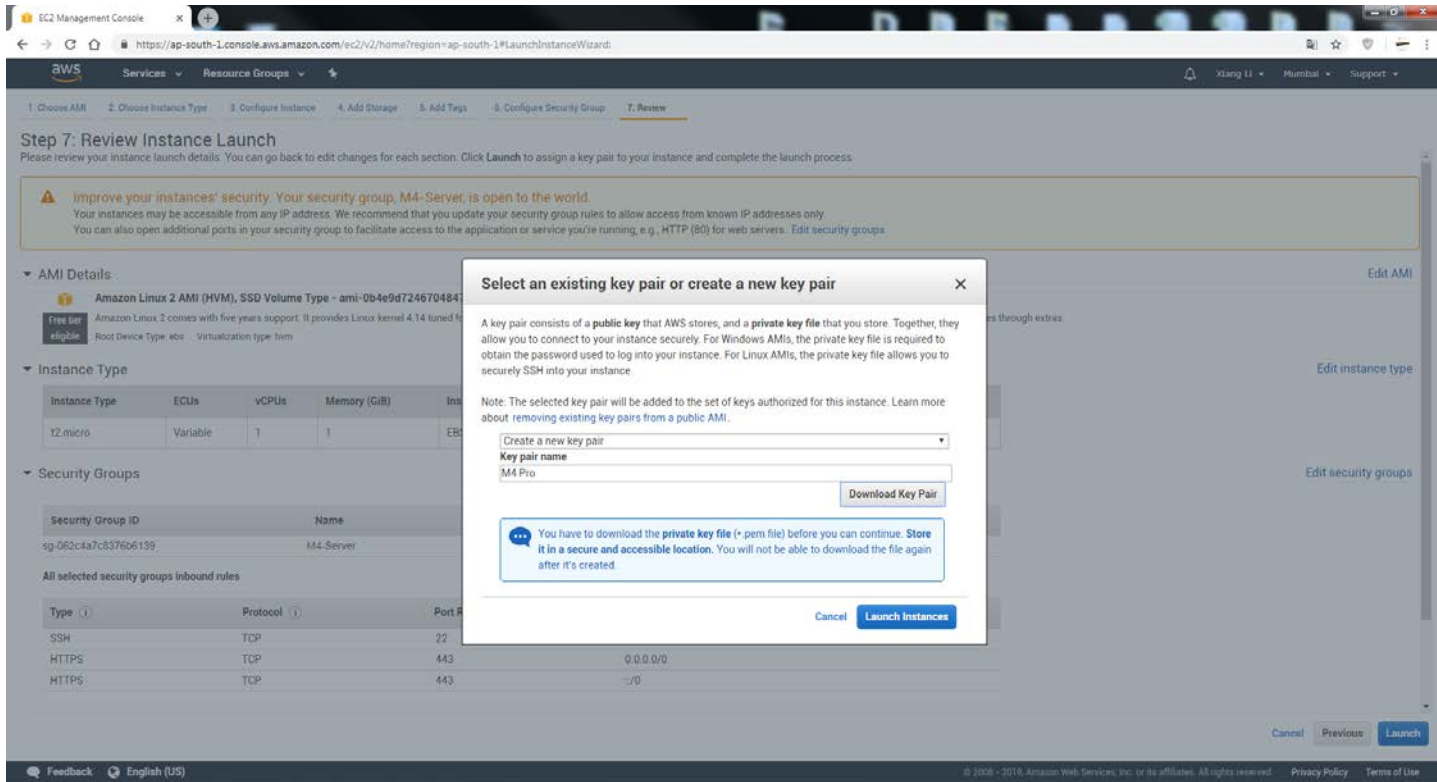
Security Groups [Edit security groups](#)

Security group name: Debian GNU-Linux 9 -Stretch--Debian GNU-Linux 9-13-AutogenByAWSMP-
 Description: This security group was generated by AWS Marketplace and is based on recommended settings for Debian GNU/Linux 9 (Stretch) version Debian GNU/Linux 9.13 provided by Debian

Type	Protocol	Port Range	Source	Description
All traffic	All	0 - 65535	Anywhere 0.0.0.0/0, ::/0	

[Cancel](#) [Previous](#) [Launch](#)

!!!! very important step, 7-2 Creat key pair & MUST DOWNLOAD and SAVE it.



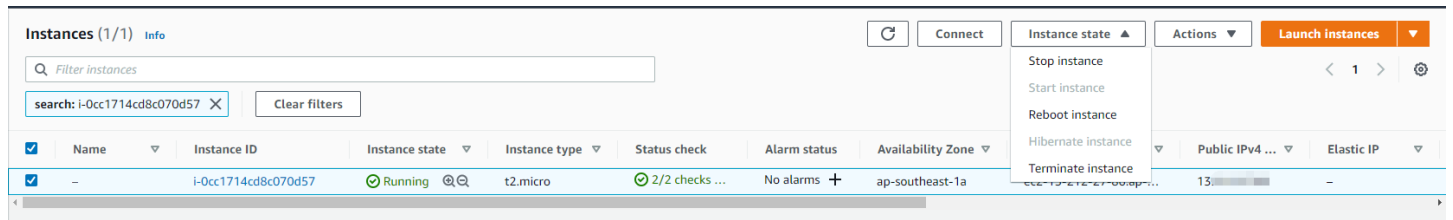
j. 8 - 9 Launch Instance & 9 Start & Stop Terminate EC2

Launch Status

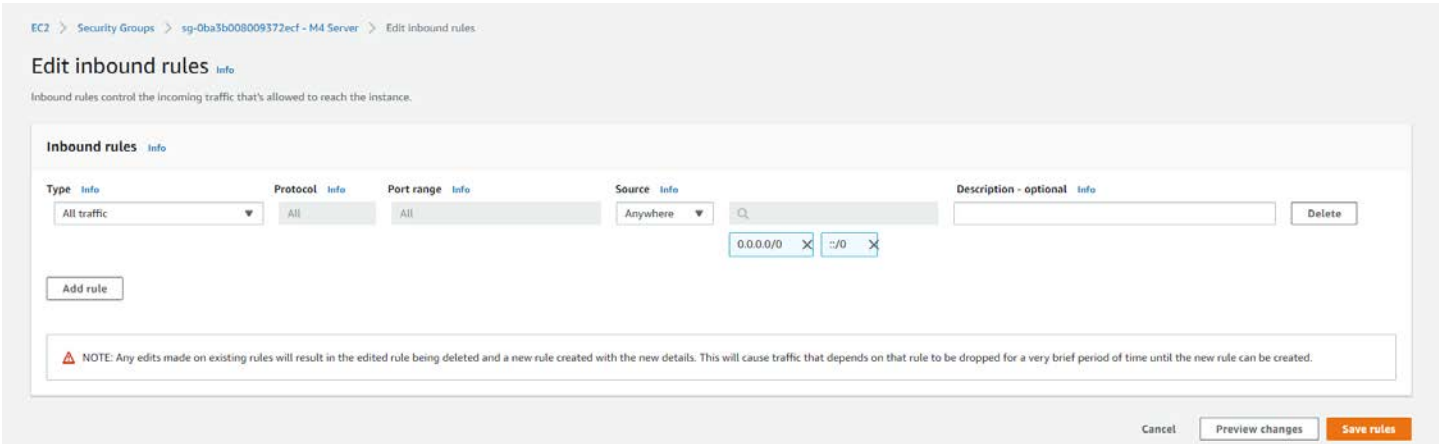
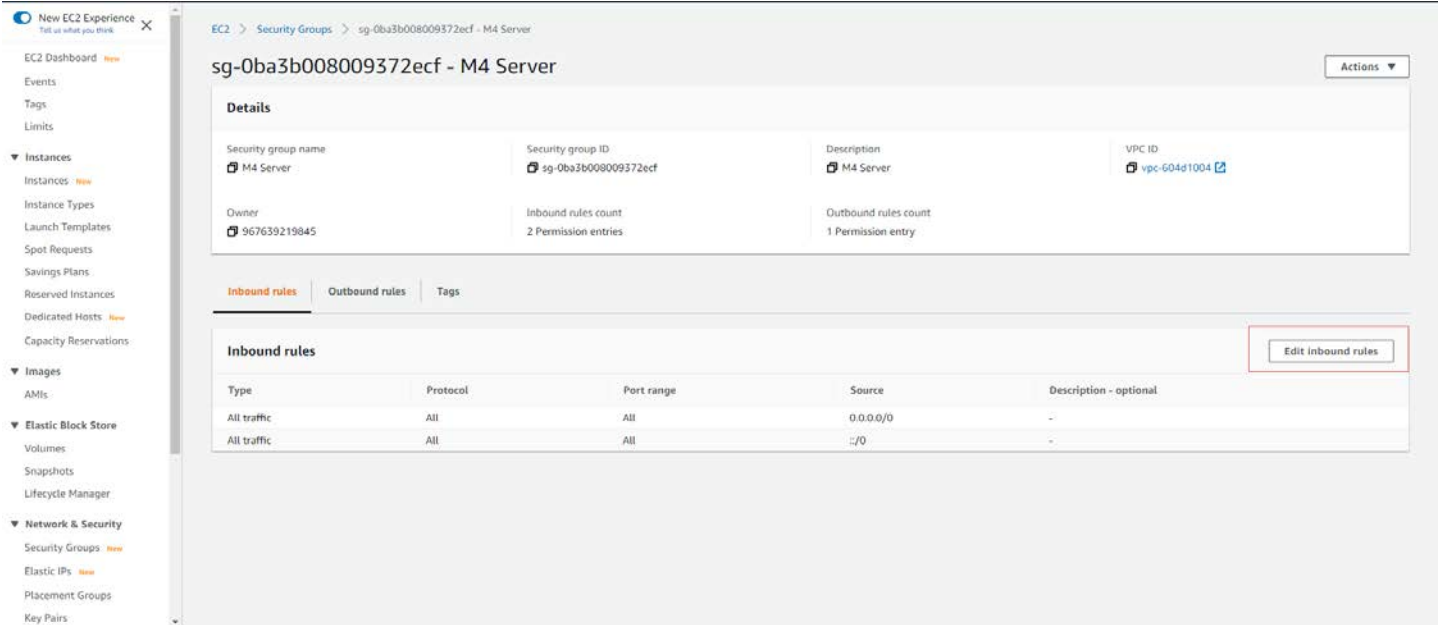
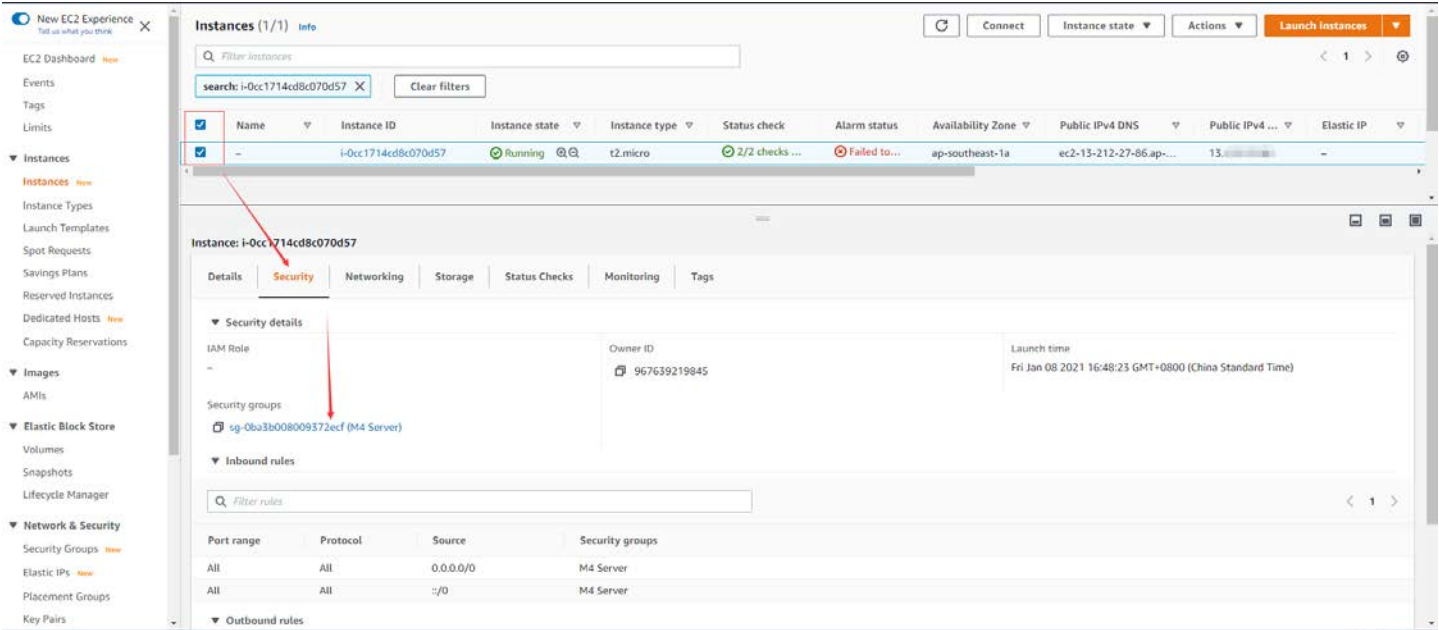
✔ **Your instances are now launching**

The following instance launches have been initiated: i-0cc1714cd8c070d57 [View launch log](#)

you can stop the instance to save your cost if you don't use the server all the time, to start it when you need to use the instance again, the server public IPv4 will be changed once restarted, keep your M4 server IP same as your EC2's instance.



k. 10 - edit security groups for port



2. Connect to Your Amazon EC2 Instance

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

Here from Windows using PuTTY , <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html>

run PuTTY, and login as **admin**, by **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

```
admin@ip-172-31-4-154:~$ sudo -s
root@ip-172-31-4-154:/home/admin# wget https://gitee.com/link4all_admin/vps/raw/master/debian_ubuntu_install.sh -O debian_ubuntu_install.sh && sh debian_ubuntu_install.sh
```

when in install it, if any promotion, type y and click Enter to continue

```
0 upgraded, 114 newly installed, 1 to remove and 0 not upgraded.
Need to get 131 MB of archives.
After this operation, 405 MB 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.

To check your server 59999 & 60011 ports open status by <http://adminkit.net/telnet.aspx>

Enter Host name or IP address

Port number

Connection Status : **Connection to 18.138.34.105 on port 59999 was successful**

3. M4 Router Setup

- a. Management URL is <http://192.168.11.1>, default password is **admin**, or by WiFi M4Pro-2.4G-xxx or M4Pro-5G-xxxx, wifi default password is **12345678**
 1st Mwan Server select the Custom, 2nd Mwan Server is the installed M4 Server IP (IPv4 Public IP), port is 59999, others keep same as the default.

4G WIFI ROUTER

- [Home](#)
- [System Info](#)
- [Wireless Setting](#)
- [Network Setting](#)
- [System Admin](#)
- [Advance Setting](#)

Current Location: Advance Setting > Multi-4G Setting

Multi-4G Setting

EnableUDPMwan Server:

EnableTCPMwan Server

Bonding Mode: 1 Default ▼

Mwan Server: Custom ▼

Mwan Server: 15.1

Port: 59999

Bonding Method: none

Password: hewenhao12345

Save

Bonding Mode:

- 1 Default - normal mode, it gives priority to the sim card(s) with better network speed.
- 2 Roundrobin - forced traffic balance mode, force each sim card use same network bandwidth, bandwidth will be limited by the speed of the card with the worst signal.
- 3 Redundant - redundancy mode, improved based on the mode 1, to avoid packet loss when network unstable.

When all settled, the SIM card still can't get network, maybe you need to setup the APN per your SIM provider, for the APN you can check here, <https://apn.how/>

← → ↻ 🏠 ⓘ 不安全 | 192.168.11.1/manage1.asp

4G WIFI ROUTER

🏠 Home

📡 System Info

📶 Wireless Setting

🌐 Network Setting

WAN Setting

LAN Setting

DHCP Setting

4G1 Setting

4G2 Setting

4G3 Setting

4G4 Setting

VPN Setting

⚙️ System Admin

📧 Advance Setting

Current Location: Network Setting > 4G Setting

4G1 Setting

IP Address: 4G modem dail failure, not get IP !

Dail Mode: Gobinet ▼

AT command device: /dev/ttyUSB2 ▼

APN Setting: 3gnet

Dail Number: *99#

Auth Mode: None ▼

User Name: Optional required

Password: Optional required

PIN Code: Optional required

Save