How to Build Bonding Server by AWS EC2

For AMIs

V1.0.2, May 9, 2024
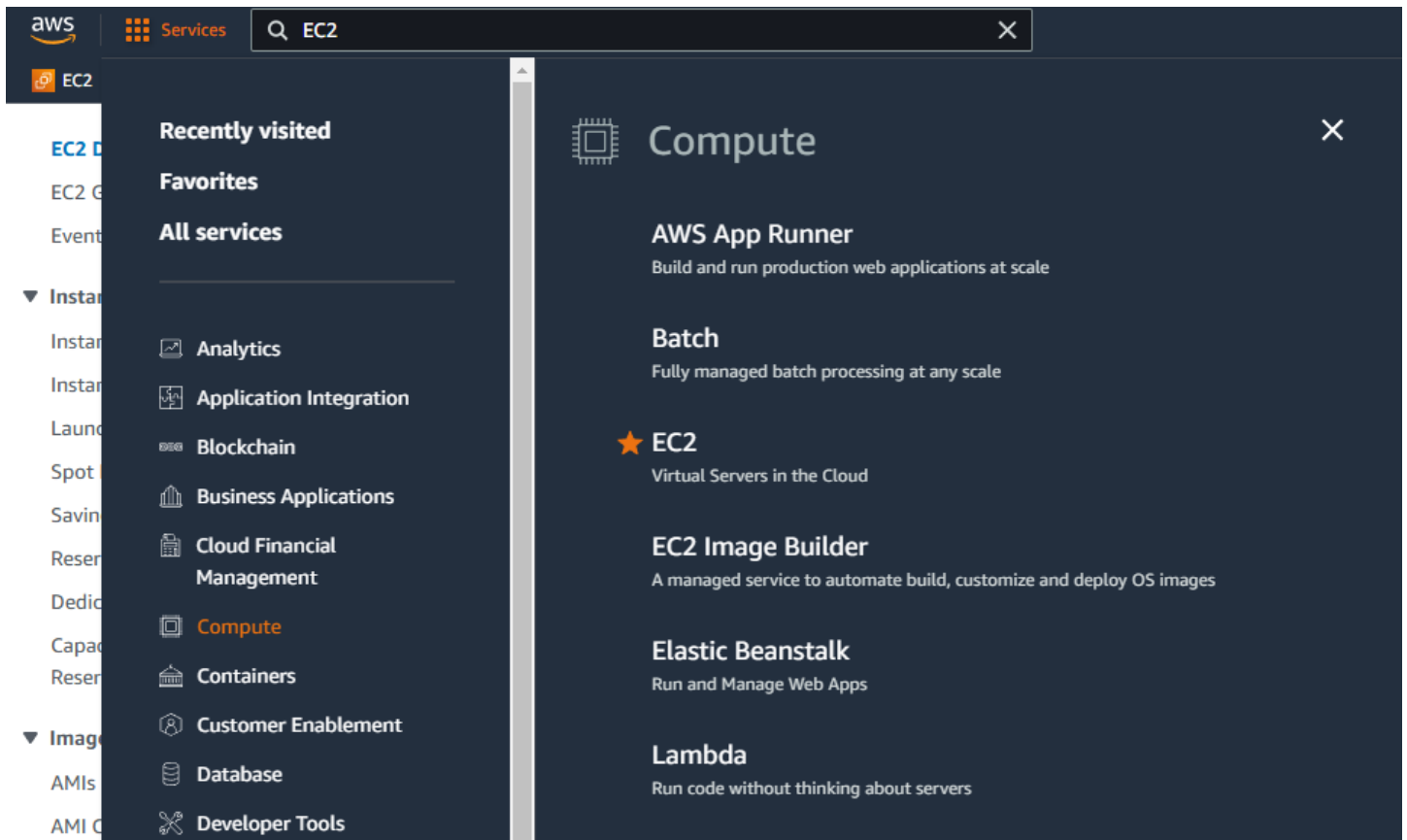
1. **Click https://aws.amazon.com, sign in and verify your account, or you need to create a AWS account.**

   Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
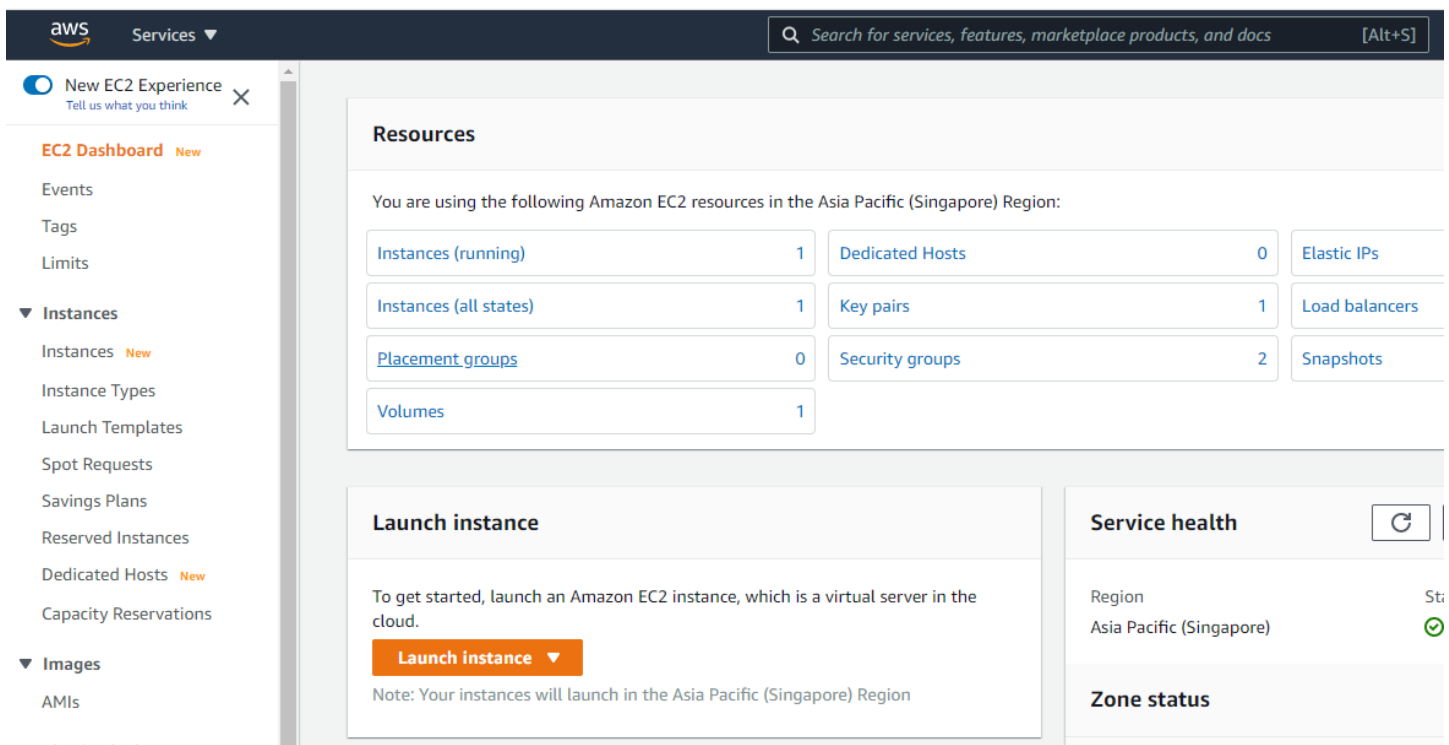
   a. Select the most appropriate region for your requirements. Region selection – top right, near your account, this guide select the Singapore region as example.
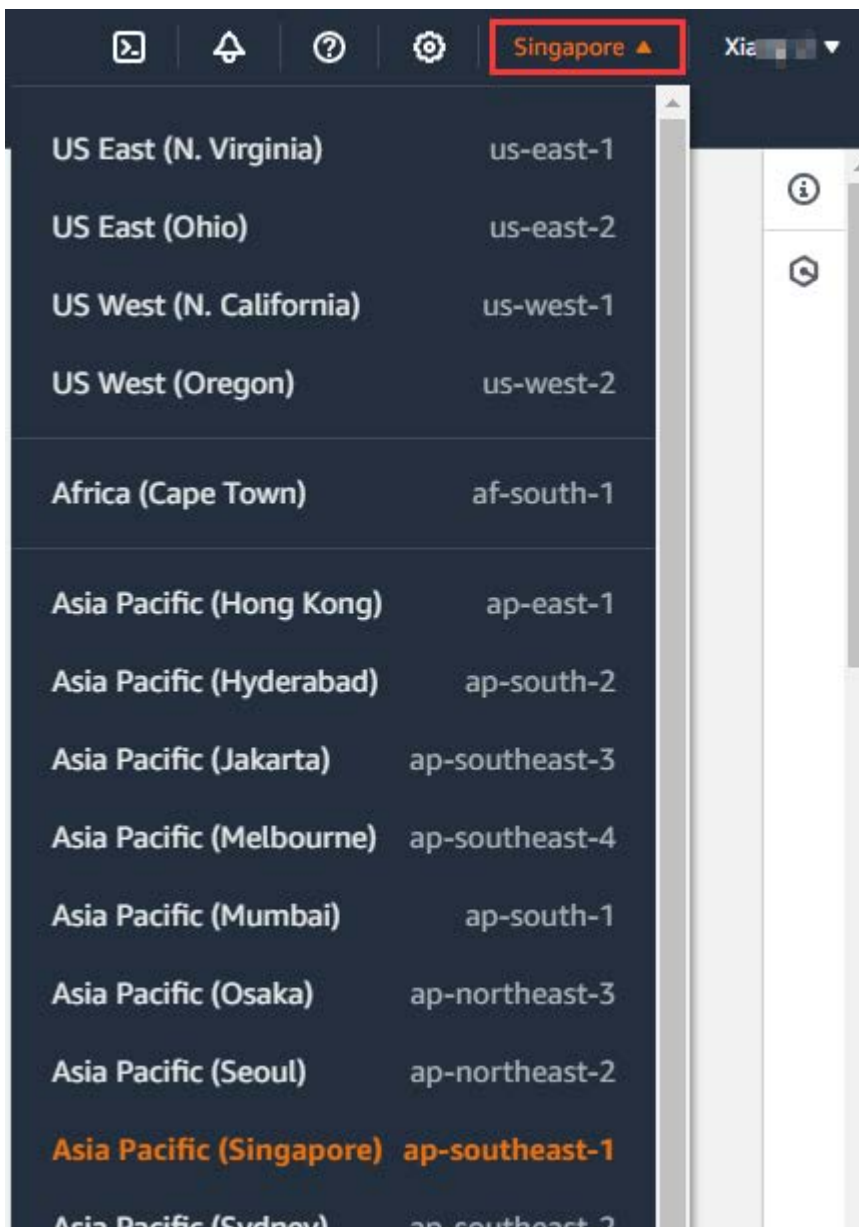
b. Pull down the Services or search EC2, then click the EC2,

c. Launch instance

d. click the Browse more AMIs

by type Mine Bonding Server
and search it, then click the community AMIs to select the correct one,

e. Create new key pair or select the exist Key pair if you have.

Private key file format based on your demand, you can choose .pem or .ppk to download and save it, you may need use it to login the bonding server.

For windows pc by putty – select the ppk would be better.

Q Mine Bonding Server   ✕

AMI from catalog | **My AMIs** | **Quick Start**

Amazon Machine Image (AMI)
Mine Bonding Server
ami-02bc28cc47a558207

Q
Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Catalog	Published	Architecture	Virtualization	Root device type	ENA Enabled
Community AMIs	2024-01-22T01:58:38.00 0Z	x86_64	hvm	ebs	Yes

▼ **Instance type** Info | Get advice

Instance type

t2.micro   Free tier eligible
Family: t2   1 vCPU   1 GiB Memory   Current generation: true
On-Demand Linux base pricing: 0.0146 USD per Hour
On-Demand Windows base pricing: 0.0192 USD per Hour   ▼
On-Demand RHEL base pricing: 0.0746 USD per Hour
On-Demand SUSE base pricing: 0.0146 USD per Hour

⬤ All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ **Key pair (login)** Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

Select   ▼   ↻   Create new key pair

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Create key pair ✕

Key pair name
Key pairs allow you to connect to your instance securely.

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The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

- ● **RSA**
  RSA encrypted private and public key pair

- ○ **ED25519**
  ED25519 encrypted private and public key pair

Private key file format

- ● .pem
  For use with OpenSSH

- ○ .ppk
  For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** Learn more ↗

Cancel   **Create key pair**

f. Network settings – click the Edit to set Inbound rules, you can open all the ports or per your needs.
   By Add security group rule to open more ports. Our bonding server need to open TCP ports 22 for SSH, port 54321 for the bonding server admin panel, port 54322 for aggregating traffic.

▼ **Network settings** Info   Edit

   ▼ **Network settings** Info

   VPC - *required*   Info

   | vpc-604d1004   (default) ⌄ | ↻
   | 172.31.0.0/16 |

   Subnet   Info

   | No preference   ⌄ | ↻ Create new subnet ↗

   Auto-assign public IP   Info

   | Enable | ⌄

   Additional charges apply when outside of free tier allowance

   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-1 |

   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 ._-:/()#,@[]+=&;{}!$*

   Description - *required*   Info

   | For Bonding Serve |

   Inbound Security Group Rules

   ▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)   Remove

   Type   Info   Protocol   Info   Port range   Info
   | ssh   ⌄ | | TCP | | 22 |

   Source type   Info   Source   Info   Description - *optional*   Info
   | Anywhere   ⌄ | | 🔍 Add CIDR, prefix list or security | | e.g. SSH for admin desktop |

                              | 0.0.0.0/0 ✕ |

   ⚠ 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.

   | Add security group rule |

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▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

Remove

Type | Info

ssh ▼

Protocol | Info

TCP

Port range | Info

22

Source type | Info

Anywhere ▼

Source | Info

🔍 Add CIDR, prefix list or security

0.0.0.0/0 ✕

Description - optional | Info

e.g. SSH for admin desktop

▼ Security group rule 2 (TCP, 54321, 0.0.0.0/0)

Remove

Type | Info

Custom TCP ▼

Protocol | Info

TCP

Port range | Info

54321

Source type | Info

Anywhere ▼

Source | Info

🔍 Add CIDR, prefix list or security

0.0.0.0/0 ✕

Description - optional | Info

e.g. SSH for admin desktop

▼ Security group rule 3 (TCP, 54322, 0.0.0.0/0)

Remove

Type | Info

Custom TCP ▼

Protocol | Info

TCP

Port range | Info

54322

Source type | Info

Anywhere ▼

Source | Info

🔍 Add CIDR, prefix list or security

0.0.0.0/0 ✕

Description - optional | Info

e.g. SSH for admin desktop

⚠ 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.

Add security group rule

You can skip this page – for the inbound security groups rules, you can change them after the EC2 created.

g. Launch Instance – click the launch instance, after instance created, click the instance ID

h. Start & Stop or Terminate EC2

To reduce costs (new user with 1 year free tier), you can stop your instance when it's not in using. Keep in mind that when you restart the instance, its public IPv4 address will change. To maintain a consistent IP address for your BONDING server, ensure it matches the EC2 instance's IP after each restart. Terminate instance means delete your bonding server.

To check your server port open status, such as 54321,54322 ports status by https://dnschecker.org/port-scanner.php