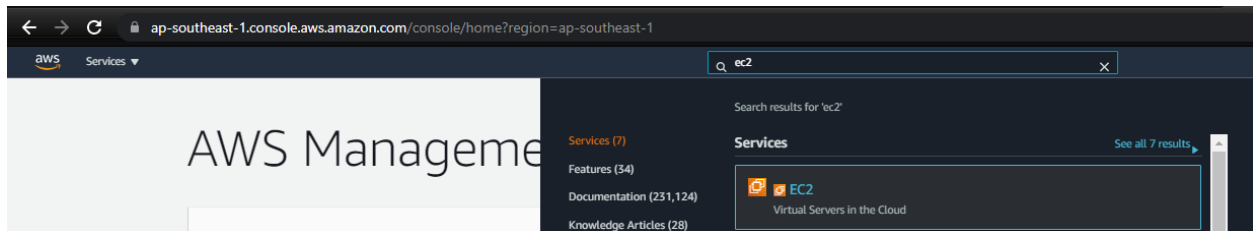
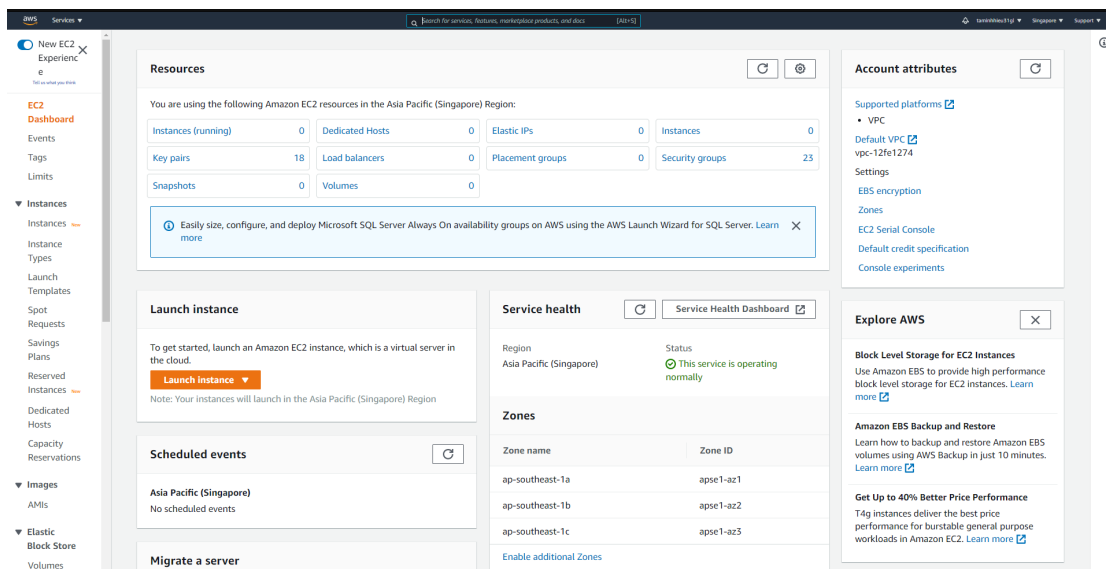


CÁC BƯỚC TẠO 1 MÁY ẢO EC2 TRÊN AWS

1. Đăng nhập vào AWS: <https://aws.amazon.com/vi>
2. Tìm kiếm và chọn EC2



3. Chọn Launch Instance



4. Chọn AMI bạn muốn (window, ubuntu, linux,...). Ví dụ này mình chọn Ubuntu 20.04

RWS

Services

Search for services, features, marketplace products, and docs

1 Choose AMI2 Choose Instance Type3 Configure Instance4 Add Storage5 Add Tags6 Configure Security Group7 Review

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. You can select an AMI provided by AWS, our user community, or the AWS Marketplace, or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Free tier only

Free tier only

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0f511ead81cc0e020 (64-bit x86) / ami-88486d2a9ef746f7f (64-bit Arm)

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Brutils 2.26.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.

Root device type: ebsVirtualization type: hvmENI Enabled: Yes

Select

64-bit (x86)64-bit (Arm)

macOS Big Sur 11.5.1 - ami-06ea122492b0ba1c

The macOS Big Sur AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebsVirtualization type: hvmENI Enabled: Yes

Select

64-bit (Mac)

macOS Catalina 10.15.7 - ami-08de033876d8aefc

The macOS Catalina AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebsVirtualization type: hvmENI Enabled: Yes

Select

64-bit (Mac)

macOS Mojave 10.14.6 - ami-0211326088a9a7b9

The macOS Mojave AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Root device type: ebsVirtualization type: hvmENI Enabled: Yes

Select

64-bit (Mac)

Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-0d6ba217554f6137 (64-bit x86) / ami-0724377cc34a29f7c2 (64-bit Arm)

Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type

Root device type: ebsVirtualization type: hvmENI Enabled: Yes

Select

64-bit (x86)64-bit (Arm)

Are you launching a database instance? Try Amazon RDS.

Amazon RDS

Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale your database on AWS by automating time-consuming database management tasks. With RDS, you can easily deploy Amazon Aurora, MariaDB, MySQL, Oracle, PostgreSQL, and SQL Server databases on AWS. Aurora is a MySQL- and PostgreSQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. Learn more about RDS

Launch a database using RDS

Hide

SUSE Linux Enterprise Server 15 SP2 (HVM), SSD Volume Type - ami-03a6d3c5c16f119db (64-bit x86) / ami-0d9271c3b1767b34 (64-bit Arm)

SUSE Linux Enterprise Server 15 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Amazon EC2 AMI Tools preinstalled: Apache 2.2, MySQL 5.5, PHP 5.3, and Ruby 1.8.7 available.

Root device type: ebsVirtualization type: hvmENI Enabled: Yes

Select

64-bit (x86)64-bit (Arm)

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-0d050f64c25540c09 (64-bit x86) / ami-077a0ee40833386a (64-bit Arm)

Ubuntu Server 20.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/about/services).

Root device type: ebsVirtualization type: hvmENI Enabled: Yes

Select

64-bit (x86)64-bit (Arm)

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-05514772367bca99a (64-bit x86) / ami-062c2ec3a8bfa6209 (64-bit Arm)

Ubuntu Server 18.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/about/services).

Root device type: ebsVirtualization type: hvmENI Enabled: Yes

Select

64-bit (x86)64-bit (Arm)

5. Chọn type của EC2, đối với sinh viên nên chọn micro để được xài bản free. Click “Next Configure Instance Details”

RWS

Services

Search for services, features, marketplace products, and docs

1 Choose AMI2 Choose Instance Type3 Configure Instance4 Add Storage5 Add Tags6 Configure Security Group7 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 familiesCurrent generationShow/Hide Columns

Currently selected: t2.micro (t2 ECUs, 1 vCPU, 2.5 GHz, ~ 1 GB memory, EBS only)

	Family	Type	vCPUs	Memory (GB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
	t2	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
	t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
	t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
	t3	t3.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
	t3	t3.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes
	t3	t3.xlarge	4	16	EBS only	Yes	Up to 5 Gigabit	Yes
	t3	t3.2xlarge	8	32	EBS only	Yes	Up to 5 Gigabit	Yes
	t3a	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
	t3a	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
	t3a	t3a.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
	t3a	t3a.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
	t3a	t3a.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes
	t3a	t3a.xlarge	4	16	EBS only	Yes	Up to 5 Gigabit	Yes
	t3a	t3a.2xlarge	8	32	EBS only	Yes	Up to 5 Gigabit	Yes
	m4g	m4g.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
	m4g	m4g.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel

Previous

Review and Launch

Next: Configure Instance Details

6. Cấu hình chi tiết cho con máy ảo của bạn (Có thể để mặc định). Click “Next: Add Storage”

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Search for services, features, marketplace products, and docs

Alt+Q

Launch AWS CLI

Singapore

Support

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 instances1Launch into Auto Scaling Group

Purchasing optionRequest Spot instances

Networkip-12b1274 (default)Create new VPC

SubnetNo preference (default subnet in any Availability Zone)Create new subnet

Auto-assign Public IPUse subnet setting (Enable)

Placement groupAdd instance to placement group

Capacity ReservationOpen

Domain join directoryNo directoryCreate new directory

IAM roleNoneCreate new IAM role

Shutdown behaviorStop

Stop / Hibernate behaviorEnable hibernation as an additional stop behavior

Enable termination protectionProtect against accidental termination

MonitoringEnable CloudWatch detailed monitoringAdditional charges apply

TenancyShared - Run a shared hardware instanceAdditional charges will apply for dedicated tenancy

Credit specificationUnlimitedAdditional charges may apply

File systemsAdd file systemsCreate new file system

Advanced Details

EnclaveEnable

Metadata accessibleEnabled

Metadata versionV1 and V2 (token optional)

Metadata token response hop limit1

User dataAs textAs fileInput is already base64 encoded

Optional

Cancel

Previous

Review and Launch

Next: Add Storage

7. Chọn lưu trữ EC2 (bước này bỏ qua đối với mức basic). Nên để mặc định, click “Next: Add Tags”

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Search for services, features, marketplace products, and docs

Alt+Q

Launch AWS CLI

Singapore

Support

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 TypeRootDeviceidev-hvdaSnapshotsnap-07333e4b389c73a19Size (GiB)8Volume TypeGeneral Purpose SSD (gp2)IOPS100 / 3000Throughput (MB/s)Delete on TerminationNot Encrypted

Add New Volume

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.

Cancel

Previous

Review and Launch

Next: Add Tags

8. Thêm tags để dễ nhận biết thông tin về máy ảo. Click “Next: Configure Security Group”

Cancel Previous **Review and Launch** Next: Configure Security Group

9. Phân định IP nào được truy cập vào máy ảo của bạn

Giả sử ta mở cho tất cả IP

Click “Add Rule”, Port range: 0, Source: Any where. Click “Review and Launch”

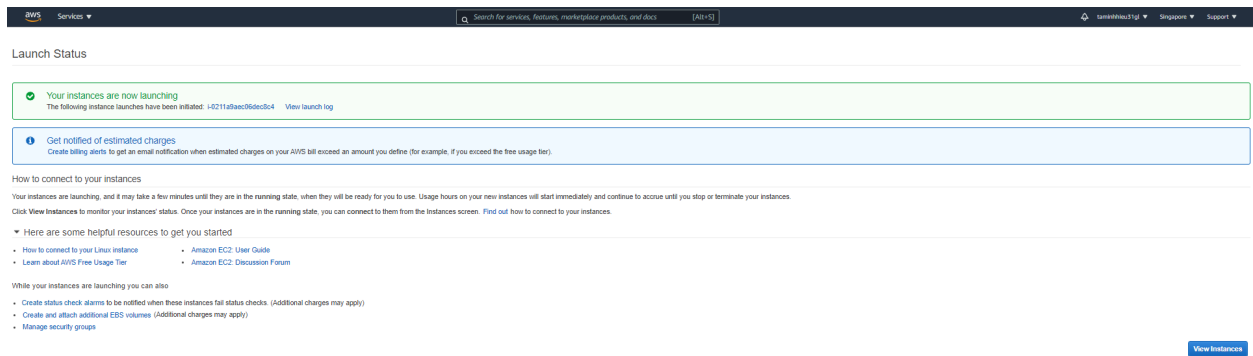
Cancel Previous Review and Launch

10. Xem lại 1 lần nữa cấu hình vừa tạo. Click “Launch”

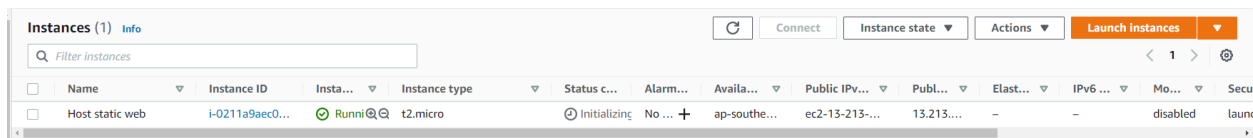
11. Chọn keypair để login vào máy ảo

Chọn “Create a new key pair”, nhập tên key và “Download Key Pair”. Click “Launch Instances”

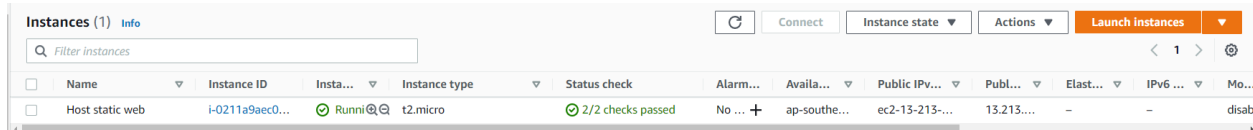
12. Click “View Instances”



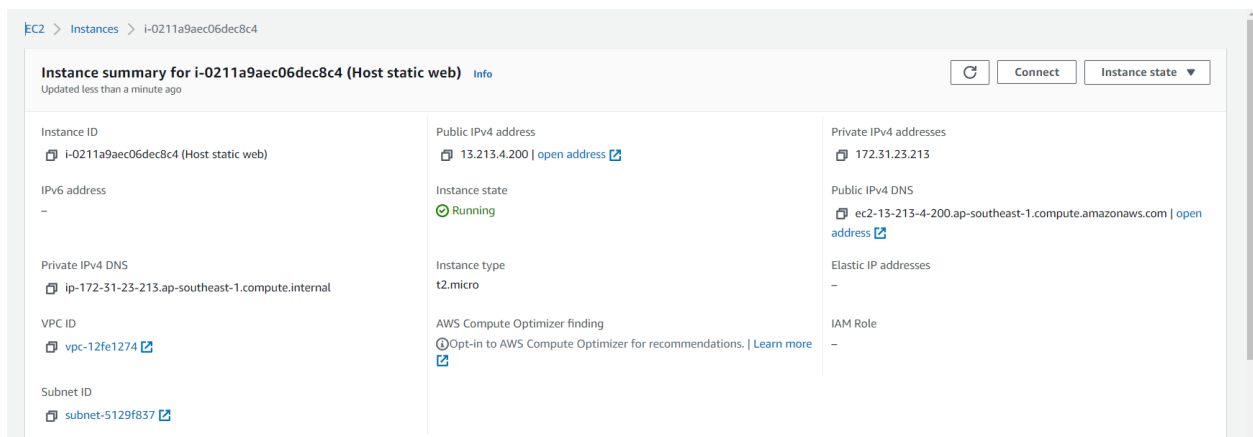
13. Đợi máy ảo khởi tạo ở cột “Status Check”



Chuyển sang “2/2 checks passed” là xong. Click vào Instances ID để tiến hành connect vào máy ảo



14. Click “Connect”



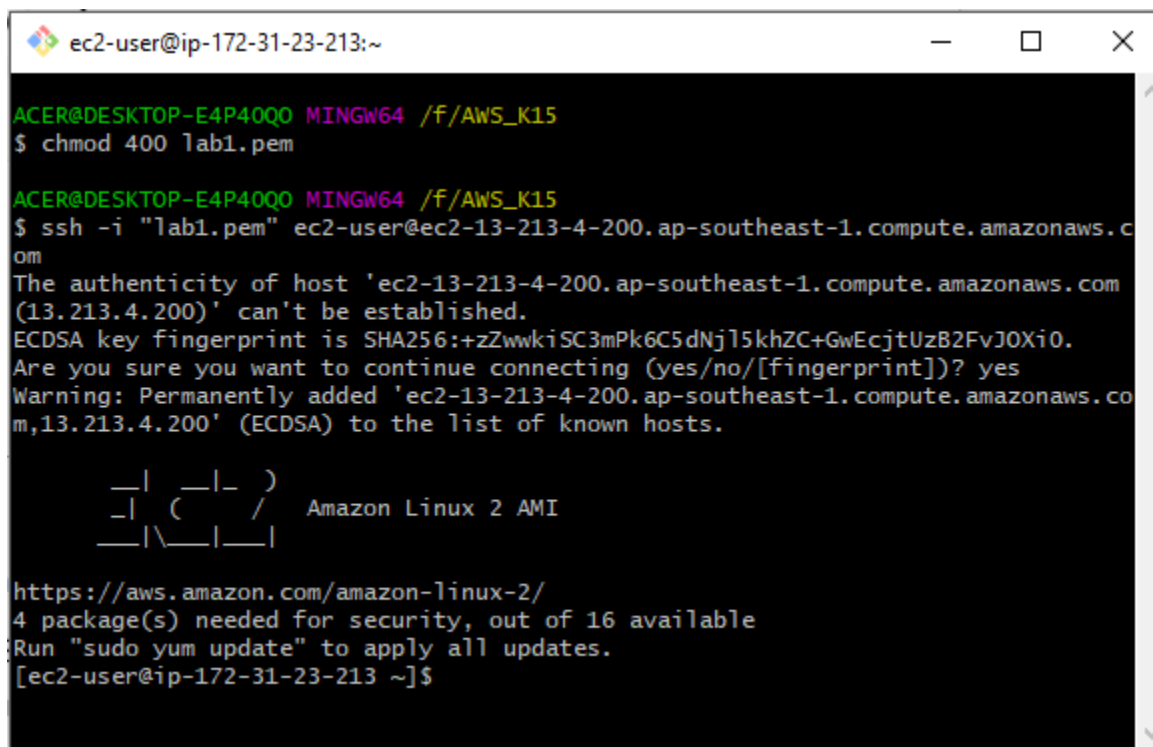
15. Mở folder chứa key pair đã tải ở bước 11 trong máy, làm theo các bước hướng dẫn trong cột SSH Client. Ví dụ

- Mở folder chứa key pair -> Mở CMD

- Thực hiện câu lệnh “chmod 400 lab1.pem”

- Thực hiện câu lệnh “ssh -i "lab1.pem" ec2-user@ec2-13-213-4-200.ap-southeast-1.compute.amazonaws.com”

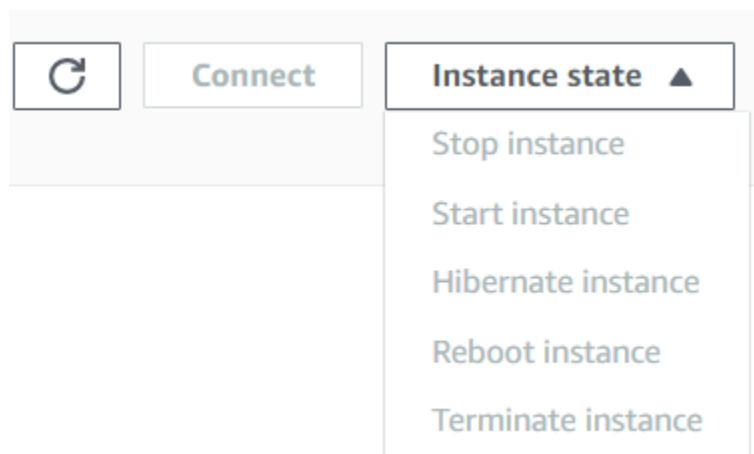
16. Đã vào được máy ảo.



```
ec2-user@ip-172-31-23-213:~  
ACER@DESKTOP-E4P40QO MINGW64 /F/AWS_K15  
$ chmod 400 lab1.pem  
ACER@DESKTOP-E4P40QO MINGW64 /F/AWS_K15  
$ ssh -i "lab1.pem" ec2-user@ec2-13-213-4-200.ap-southeast-1.compute.amazonaws.com  
The authenticity of host 'ec2-13-213-4-200.ap-southeast-1.compute.amazonaws.com  
(13.213.4.200)' can't be established.  
ECDSA key fingerprint is SHA256:+zZwwkiSC3mPk6C5dNj15khZC+GwEcjtUzB2FvJ0Xi0.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'ec2-13-213-4-200.ap-southeast-1.compute.amazonaws.com,13.213.4.200' (ECDSA) to the list of known hosts.  
  
  _ | _ | _ )  
  _ | (   /   Amazon Linux 2 AMI  
  _ | \ _ | _ |  
  
https://aws.amazon.com/amazon-linux-2/  
4 package(s) needed for security, out of 16 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-23-213 ~]$
```

17. Tại đây bạn có thể host static web, java, python,.....

18. Khi không sử dụng hãy “Terminal instance”, để tránh bị tính phí



XONG

