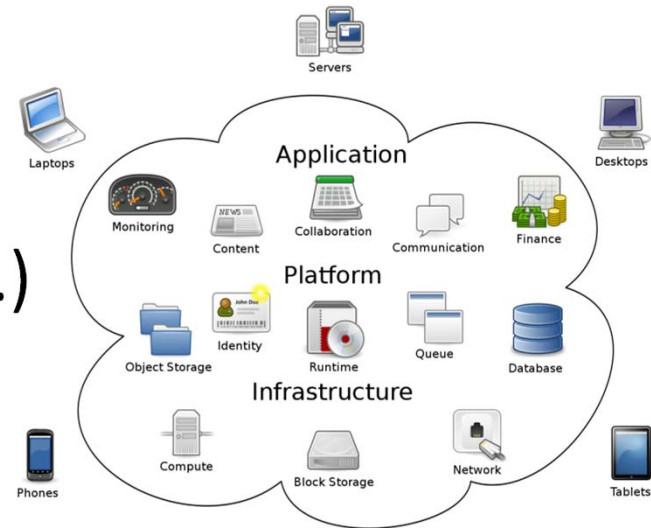


Install Linux on AWS

YoungMin Kwon

Amazon Web Services (AWS)

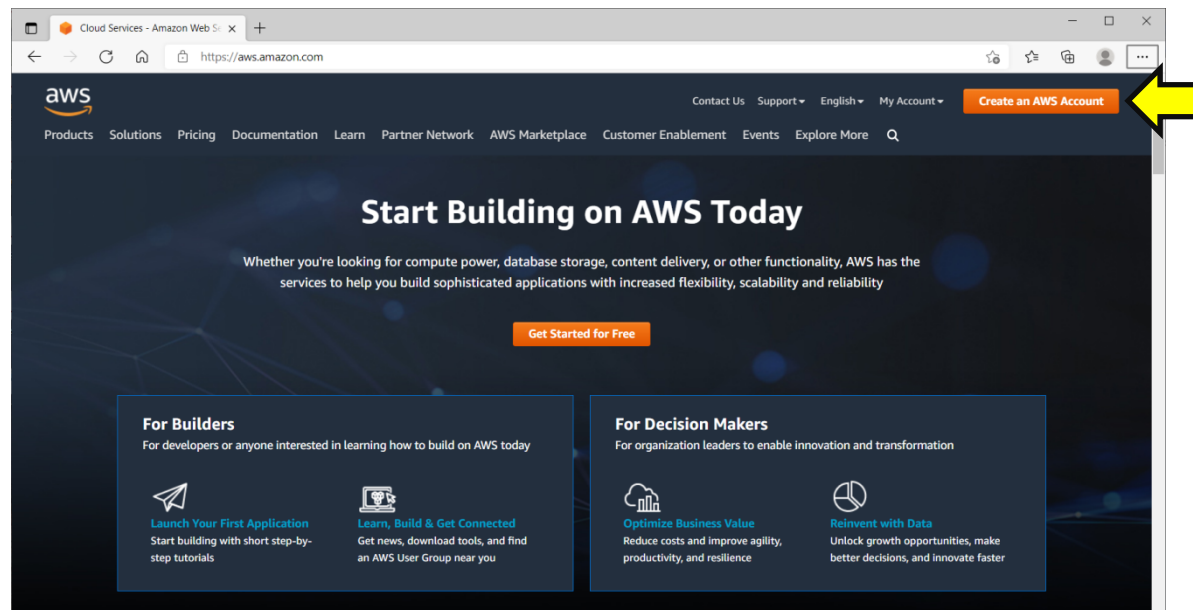
- Cloud computing
 - Computer system resources (storage, computing power, ...) available to the user on-demand
- Amazon Web Services (AWS)
 - AWS is a cloud computing platform provided by Amazon



Create an AWS Account

- Goto

- <https://aws.amazon.com>
- Click on “Create an AWS Account” button...



Create an AWS Account

- Create a free tier account

Explore Free Tier products with a new AWS account.

To learn more, visit aws.amazon.com/free.

Sign up for AWS

Email address
You will use this email address to sign in to your new AWS account.

Password

Confirm password

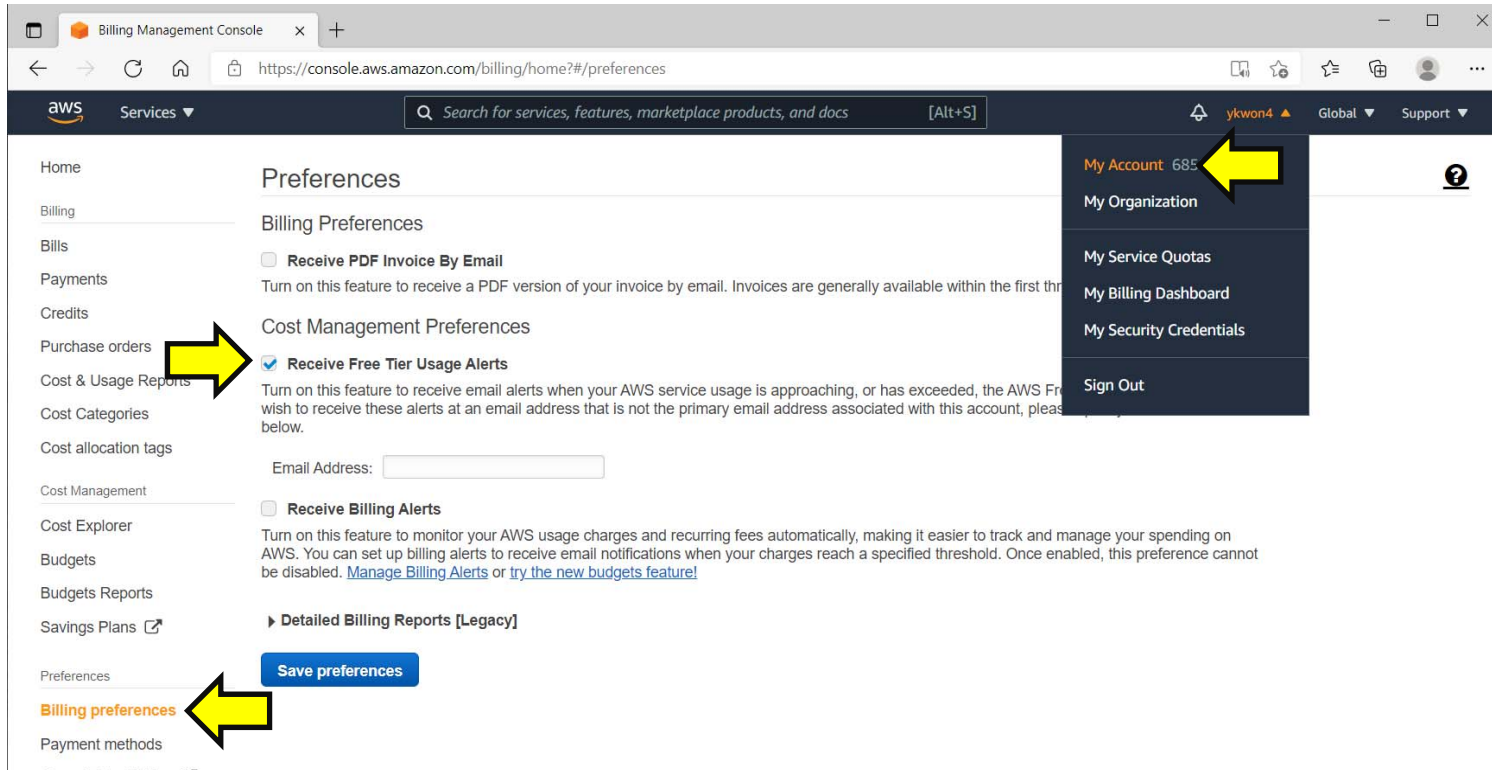
AWS account name
Choose a name for your account. You can change this name in your account settings after you sign up.

Continue (step 1 of 5)

[Sign in to an existing AWS account](#)

Set Free Tier Usage Alerts

- My Account ⇒ Billing preferences ⇒ Check Receive Free Tier Usage Alerts



The screenshot displays the AWS Billing Management Console interface. The browser address bar shows the URL `https://console.aws.amazon.com/billing/home?#/preferences`. The page title is "Preferences". The left sidebar contains a navigation menu with categories: Home, Billing, Bills, Payments, Credits, Purchase orders, Cost & Usage Reports, Cost Categories, Cost allocation tags, Cost Management, Cost Explorer, Budgets, Budgets Reports, Savings Plans, Preferences, Billing preferences, and Payment methods. The "Billing preferences" section is expanded, showing "Billing Preferences" and "Cost Management Preferences". Under "Cost Management Preferences", the checkbox for "Receive Free Tier Usage Alerts" is checked. Below this, there is a text input field for "Email Address:". Other options include "Receive PDF Invoice By Email" (unchecked), "Receive Billing Alerts" (unchecked), and "Detailed Billing Reports [Legacy]". A blue "Save preferences" button is located at the bottom of the preferences section. A yellow arrow points to the "Receive Free Tier Usage Alerts" checkbox. Another yellow arrow points to the "Billing preferences" link in the left sidebar. A third yellow arrow points to the "My Account 685" link in the top right navigation bar.

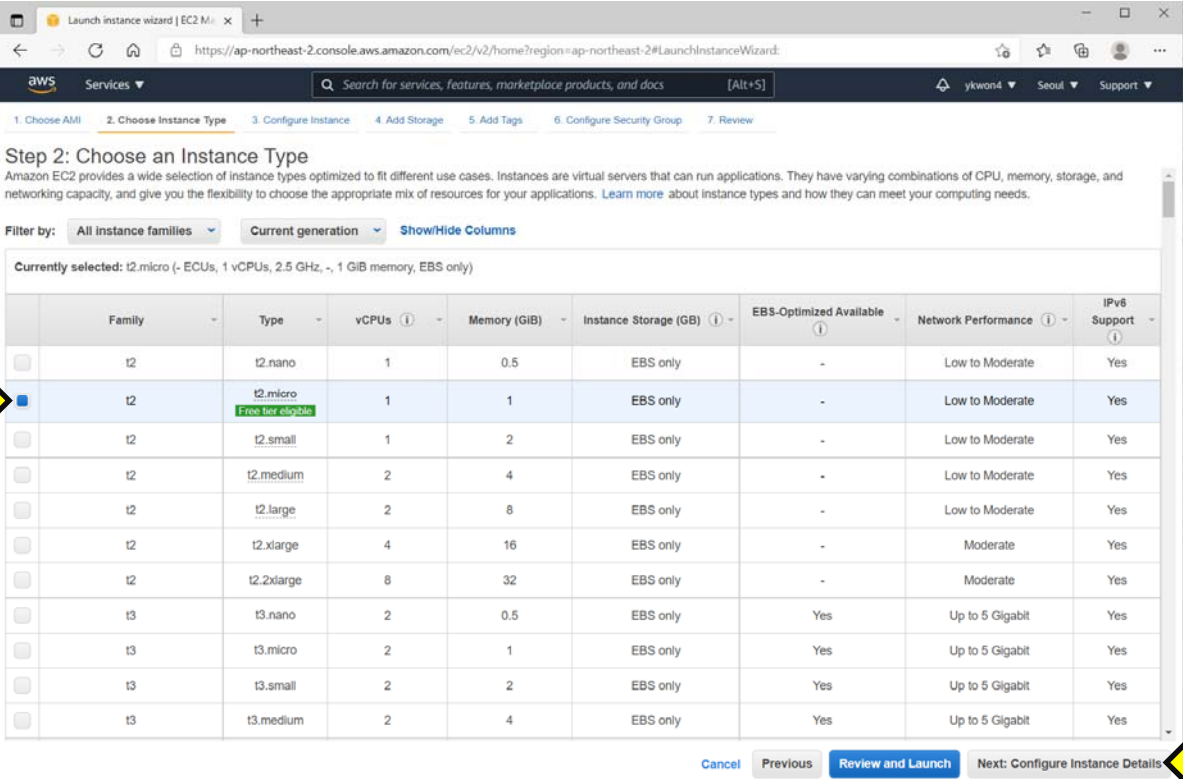
Create a Virtual Machine

- Mark “Free tier only”
- Select the latest 64-bit (x86) LTS version of Ubuntu
 - LTS: Long Term Support

The screenshot shows the AWS Management Console's 'Launch instance wizard' for EC2. The current step is 'Step 1: Choose an Amazon Machine Image (AMI)'. The left sidebar has a 'Free tier only' filter selected, indicated by a yellow arrow. The main area displays a list of AMIs. The 'Ubuntu Server 20.04 LTS (HVM), SSD Volume Type' AMI is highlighted, and its '64-bit (x86)' radio button is selected, also indicated by a yellow arrow. Other AMIs shown include 'Amazon Linux 2' and 'Ubuntu Server 18.04 LTS'. The bottom right corner features the SUNY Korea logo.

Create a Virtual Machine

- Select t2.micro (**Free tier eligible**)
- Click on “Next: Configure Instance Details”



Launch instance wizard | EC2 M... x

https://ap-northeast-2.console.aws.amazon.com/ec2/v2/home?region=ap-northeast-2#LaunchInstanceWizard:

Services Search for services, features, marketplace products, and docs [Alt+S]

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 (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

| | Family | Type | vCPUs | Memory (GiB) | Instance Storage (GB) | 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 Free tier eligible | 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 |

Cancel Previous **Review and Launch** Next: Configure Instance Details

Create a Virtual Machine

- Click on “Next: Configure Instance Details”

Launch instance wizard | EC2 Ma x +
https://ap-northeast-2.console.aws.amazon.com/ec2/v2/home?region=ap-northeast-2#LaunchInstanceWizard:

aws Services Search for services, features, marketplace products, and docs [Alt+S] ykwon4 Seoul Support

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

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 [Create new VPC](#)

Subnet [Create new subnet](#)

Auto-assign Public IP

Placement group Add Instance to placement group

Capacity Reservation

Domain join directory [Create new directory](#)

IAM role [Create new IAM role](#)

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.

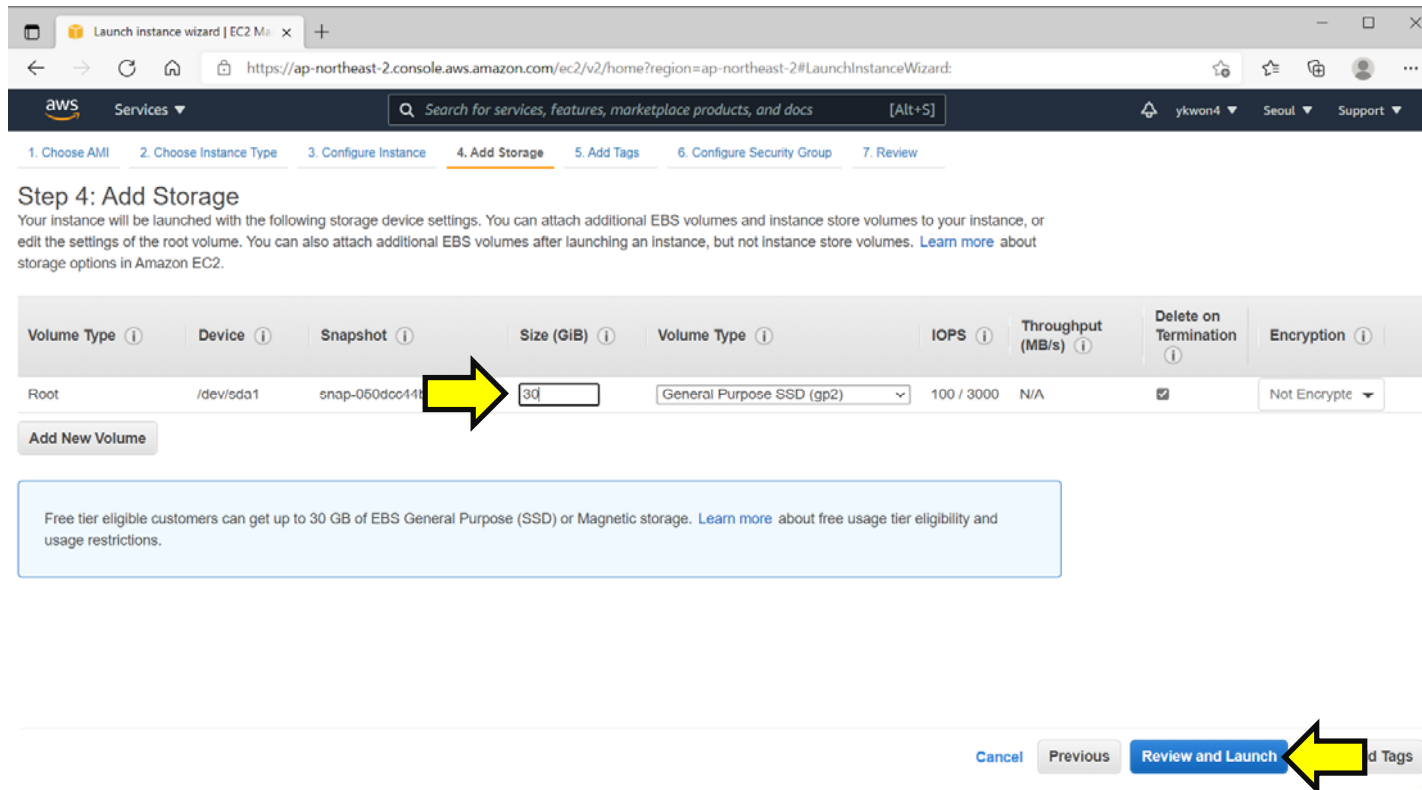
Tenancy
Additional charges will apply for dedicated tenancy.

Elastic Inference Add an Elastic Inference accelerator

Cancel Previous **Review and Launch** Next: Add Storage

Create a Virtual Machine

- Enter 30 to Size (GiB)
- Click on “Review and Launch”



The screenshot shows the AWS Management Console 'Launch instance wizard' at Step 4: Add Storage. The interface includes a progress bar at the top with steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage (current), 5. Add Tags, 6. Configure Security Group, and 7. Review. Below the progress bar, the title 'Step 4: Add Storage' is followed by a descriptive paragraph. A table lists the storage configuration for the 'Root' volume, with a yellow arrow pointing to the 'Size (GiB)' field containing '30'. The table columns are: Volume Type, Device, Snapshot, Size (GiB), Volume Type, IOPS, Throughput (MB/s), Delete on Termination, and Encryption. Below the table is an 'Add New Volume' button and a blue information box. At the bottom right, a navigation bar contains 'Cancel', 'Previous', 'Review and Launch' (highlighted with a yellow arrow), and 'Add Tags' buttons. The AWS logo and search bar are visible at the top left of the console interface.

| Volume Type | Device | Snapshot | Size (GiB) | Volume Type | IOPS | Throughput (MB/s) | Delete on Termination | Encryption |
|-------------|-----------|----------------|------------|---------------------------|------------|-------------------|-------------------------------------|---------------|
| Root | /dev/sda1 | snap-050dco41t | 30 | 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.

Create a Virtual Machine

- Click on “Launch”

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.

⚠ Improve your instances' security. Your security group, launch-wizard-2, 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](#)

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-04876f29fd3a5e8ba
Free tier eligible
Ubuntu Server 20.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).
Root Device Type: ebs Virtualization type: hvm

▼ Instance Type [Edit instance type](#)

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

▼ Security Groups [Edit security groups](#)

Security group name: launch-wizard-2
Description: launch-wizard-2 created 2021-09-06T09:51:19.721+09:00

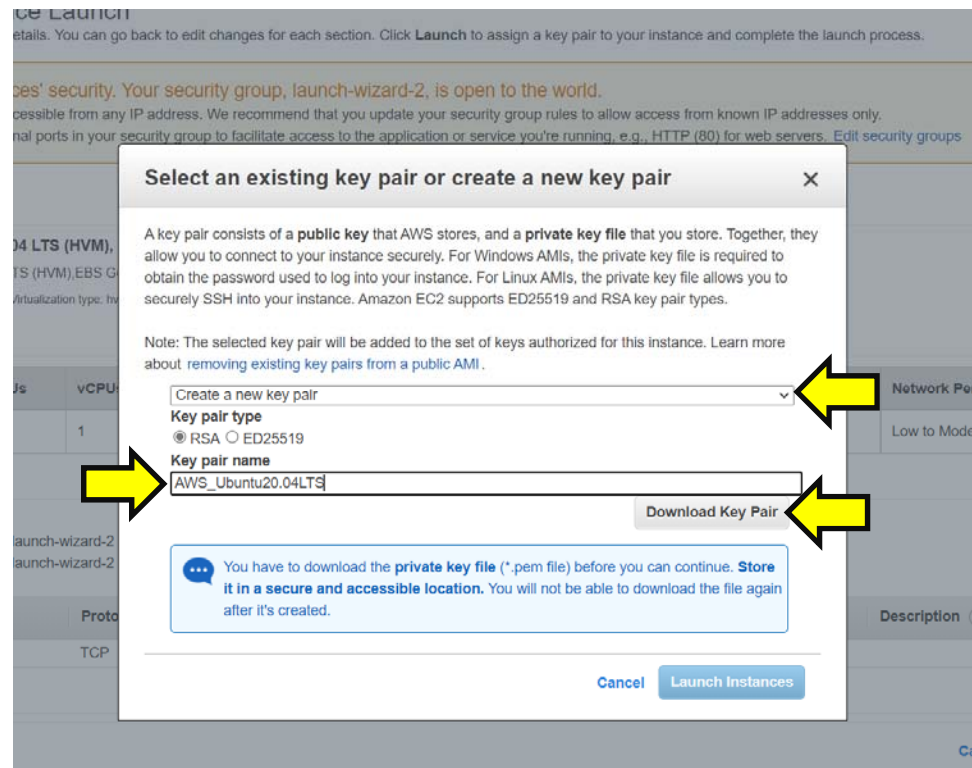
| Type ⓘ | Protocol ⓘ | Port Range ⓘ | Source ⓘ | Description ⓘ |
|--------|------------|--------------|-----------|---------------|
| SSH | TCP | 22 | 0.0.0.0/0 | |

▶ Instance Details [Edit instance details](#)

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

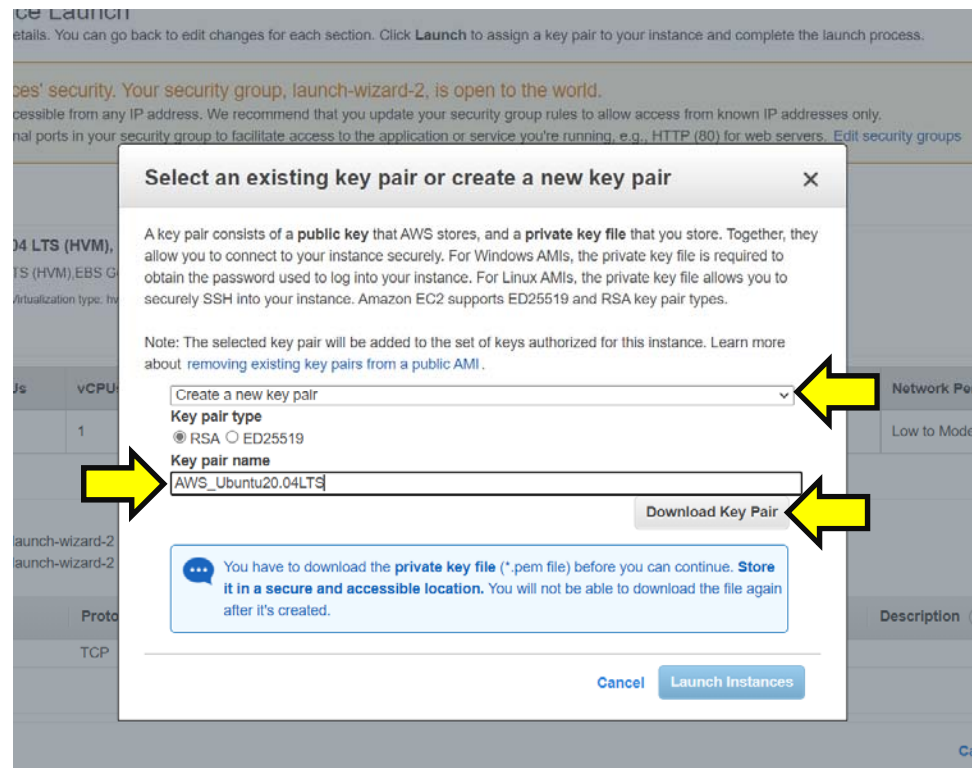
Create a Virtual Machine

- Select “Create a new key pair”
- Enter a Key pair name
- Click on “Download Key Pair”



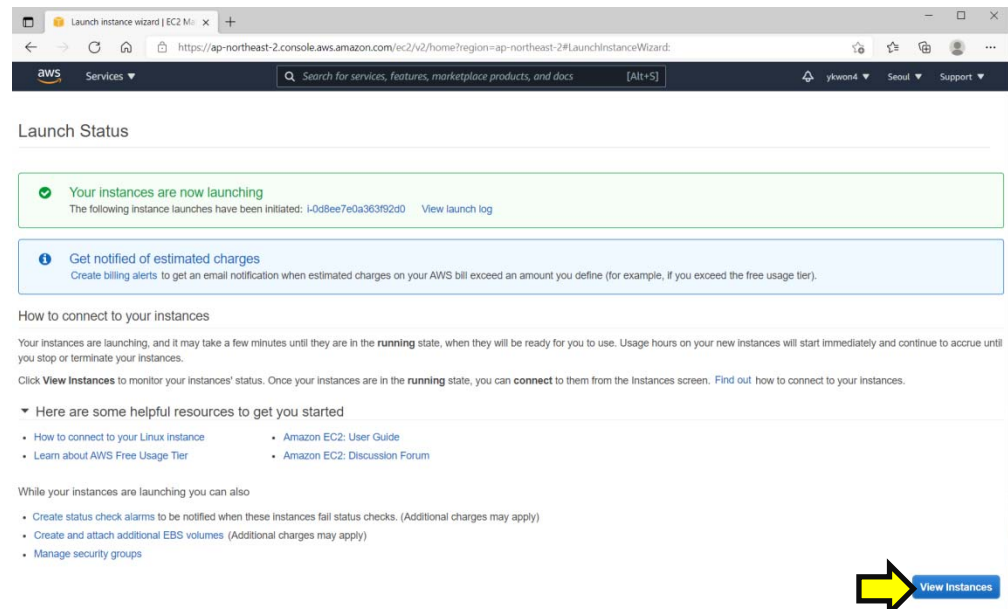
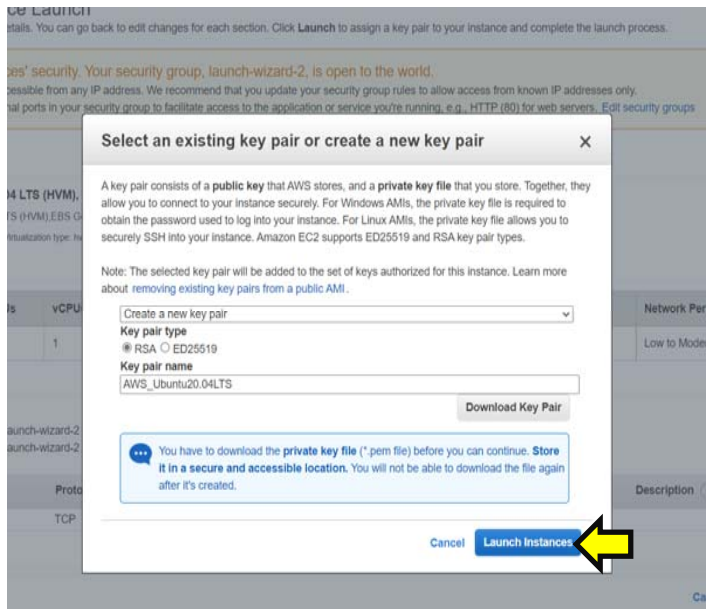
Create a Virtual Machine

- Download the Key pair
 - Email the .pem file to yourself (to access the VM from other machines)



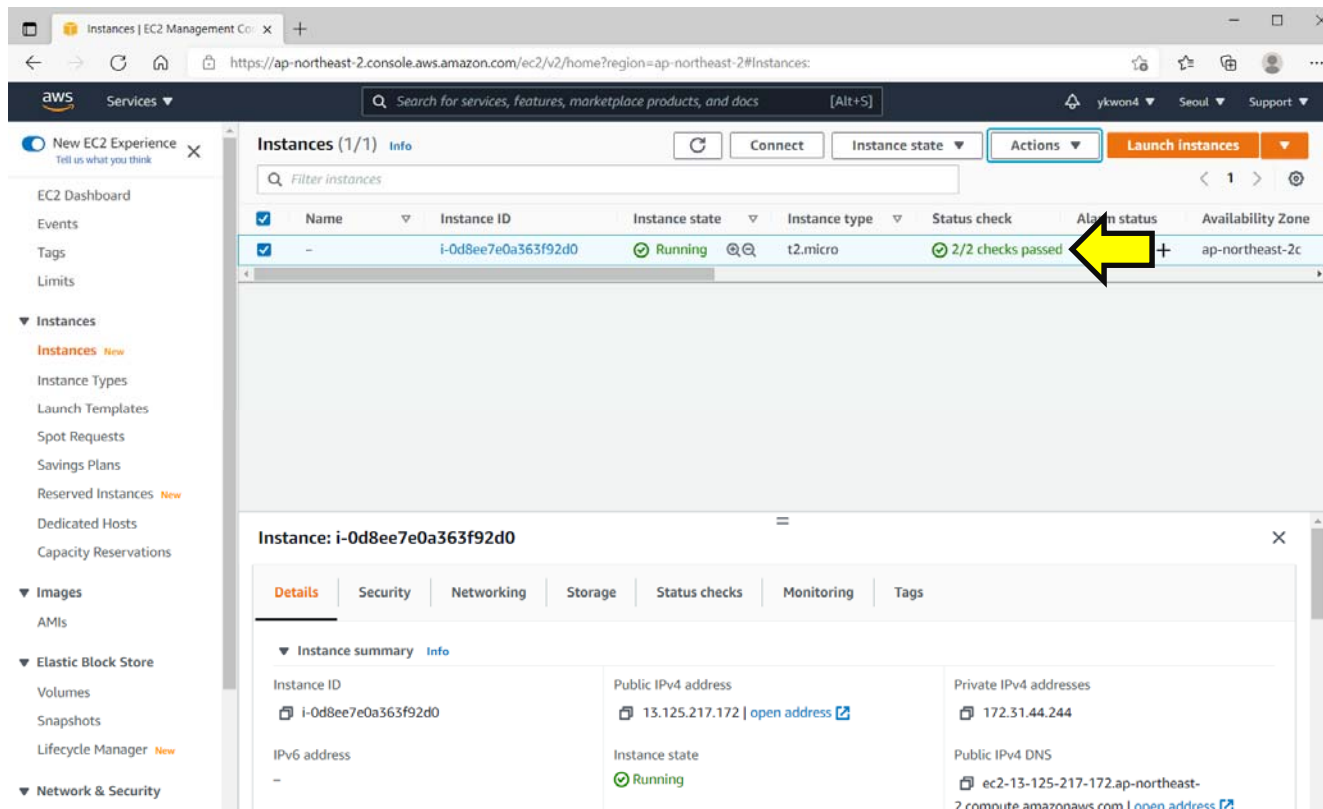
Create a Virtual Machine

- Click on “Launch Instances”
- Click on “View Instances”



Create a Virtual Machine

- Wait until Status check becomes green
 - May need to refresh the page



The screenshot displays the AWS Management Console interface for EC2 instances. The main content area shows a table of instances with the following columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. A single instance is listed with the ID 'i-0d8ee7e0a363f92d0', in a 'Running' state, using the 't2.micro' instance type, and with a status check of '2/2 checks passed'. A yellow arrow points to the 'Status check' column for this instance. Below the table, the 'Instance: i-0d8ee7e0a363f92d0' details are shown, including the Instance ID, Public IPv4 address (13.125.217.172), Private IPv4 addresses (172.31.44.244), and Instance state (Running).

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone |
|------|---------------------|----------------|---------------|-------------------|--------------|-------------------|
| - | i-0d8ee7e0a363f92d0 | Running | t2.micro | 2/2 checks passed | | ap-northeast-2c |

Instance: i-0d8ee7e0a363f92d0

| Instance summary | | |
|---------------------|---|--|
| Instance ID | Public IPv4 address | Private IPv4 addresses |
| i-0d8ee7e0a363f92d0 | 13.125.217.172 open address | 172.31.44.244 |
| IPv6 address | Instance state | Public IPv4 DNS |
| - | Running | ec2-13-125-217-172.ap-northeast-2.compute.amazonaws.com open address |

Connect to the VM

- “Instances” ⇒ Select the VM you created ⇒ “Actions” ⇒ “Connect”

The screenshot shows the AWS Management Console interface for EC2 instances. The left sidebar contains navigation options, with 'Instances' highlighted by a yellow arrow. The main content area displays a table of instances. One instance is selected, and its 'Actions' dropdown menu is open, with 'Connect' highlighted by a yellow arrow. Below the table, the details for the selected instance 'i-Od8ee7e0a363f92d0' are shown, including its public and private IP addresses.

| Name | Instance ID | Instance state | Instance type | Status checks |
|------|---------------------|----------------|---------------|-------------------|
| - | i-Od8ee7e0a363f92d0 | Running | t2.micro | 2/2 checks passed |

Instance: i-Od8ee7e0a363f92d0

Instance summary

| | | |
|---------------------|-------------------------------|------------------------|
| Instance ID | Public IPv4 address | Private IPv4 addresses |
| i-Od8ee7e0a363f92d0 | 13.125.217.172 open address | 172.31.44.244 |

Connect to the VM

- Click on “SSH client” tab
 - Copy the line after Example:

Connect to instance | EC2 Manag... x +

https://ap-northeast-2.console.aws.amazon.com/ec2/v2/home?region=ap-northeast-2#ConnectToInstance:instanceId=i-Od8ee7e0a363f92d0

aws Services Search for services, features, marketplace products, and docs [Alt+S]

EC2 > Instances > i-Od8ee7e0a363f92d0 > Connect to instance

Connect to instance Info

Connect to your instance i-Od8ee7e0a363f92d0 using any of these options:

EC2 Instance Connect | Session Manager | **SSH client** | EC2 Serial Console

Instance ID
i-Od8ee7e0a363f92d0

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is AWS_Ubuntu20.04LTS.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 AWS_Ubuntu20.04LTS.pem
4. Connect to your instance using its Public DNS:
ec2-13-125-217-172.ap-northeast-2.compute.amazonaws.com

Example:

```
ssh -i "AWS_Ubuntu20.04LTS.pem" ubuntu@ec2-13-125-217-172.ap-northeast-2.compute.amazonaws.com
```

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

Connect to the VM (Linux, Mac)

- Create a .sh file with the following contents
 - It will run ssh
 - E.g. vi sshaws.sh

```
#!/bin/bash  
ssh -i "AWS_Ubuntu2004LTS.pem" ubuntu@ec2-13-125-217-172.ap-northeast-2.compute.amazonaws.com
```

from AWS SSH client tab

Connect to the VM (Linux, Mac)

- Remove rwx permissions from the .pem file
 - `chmod go-rwx AWS_Ubuntu2004LTS.pem`
- Add x permission to the .sh file
 - `chmod u+x sshaws.sh`
- Run the .sh file
 - `./sshaws.sh`

```
ubuntu@ip-172-31-44-244: ~  
ykwon4@youngbox2:~/home/aws$ vi sshaws.sh  
ykwon4@youngbox2:~/home/aws$  
ykwon4@youngbox2:~/home/aws$ chmod go-rwx AWS_Ubuntu2004LTS.pem  
ykwon4@youngbox2:~/home/aws$  
ykwon4@youngbox2:~/home/aws$ chmod u+x sshaws.sh  
ykwon4@youngbox2:~/home/aws$  
ykwon4@youngbox2:~/home/aws$ ./sshaws.sh  
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-aws x86_64)
```

Upload/Download Files (Linux, Mac)

- Create a .sh file with the following contents
 - It will run sftp
 - E.g. vi sftpaws.sh

```
#!/bin/bash  
sftp -i "AWS_Ubuntu2004LTS.pem" ubuntu@ec2-13-125-217-172.ap-northeast-2.compute.amazonaws.com
```

from AWS SSH client tab
* the command is sftp

Upload/Download Files (Linux, Mac)

- Add x permission to the .sh file
 - `chmod u+x sftpaws.sh`
- Run the .sh file
 - `./sftpaws.sh`
 - E.g. to upload hello.c: `put hello.c`
 - E.g. to download hello.c: `get hello.c`

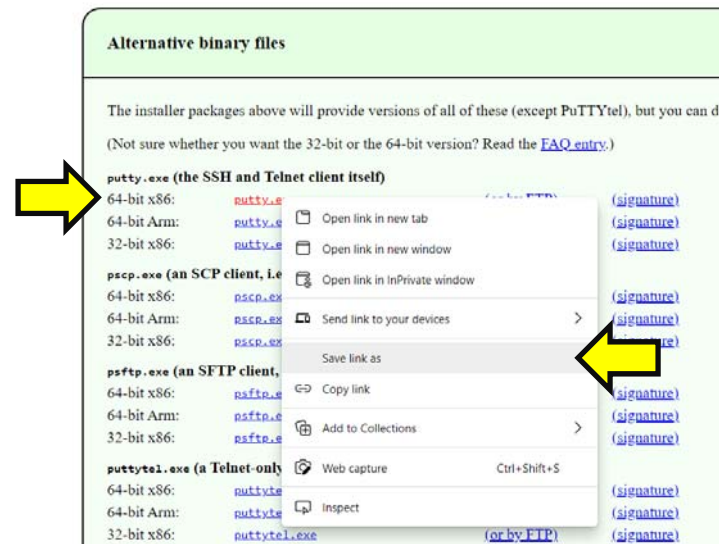
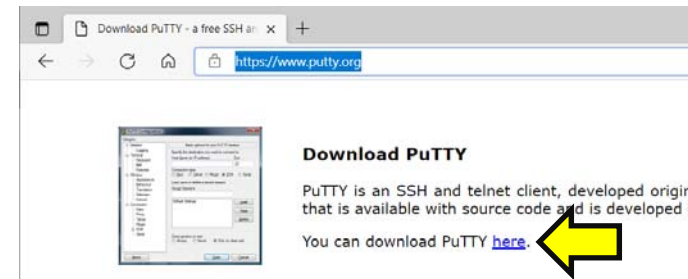
```
ykwon4@youngbox2: ~/home/aws
ykwon4@youngbox2:~/home/aws$ vi sftpaws.sh
ykwon4@youngbox2:~/home/aws$ chmod u+x sftpaws.sh
ykwon4@youngbox2:~/home/aws$ ./sftpaws.sh
Connected to ec2-13-125-217-172.ap-northeast-2.compute.amazonaws.com.
sftp> put hello.c
Uploading hello.c to /home/ubuntu/hello.c
hello.c
sftp> get hello.c
Fetching /home/ubuntu/hello.c to hello.c
/home/ubuntu/hello.c
sftp> bye
ykwon4@youngbox2:~/home/aws$
```

Connect to the VM (Windows)

- Download putty.exe, psftp.exe, puttygen.exe
- Convert a private key using puttygen.exe
- Create .cmd files to connect to the VM

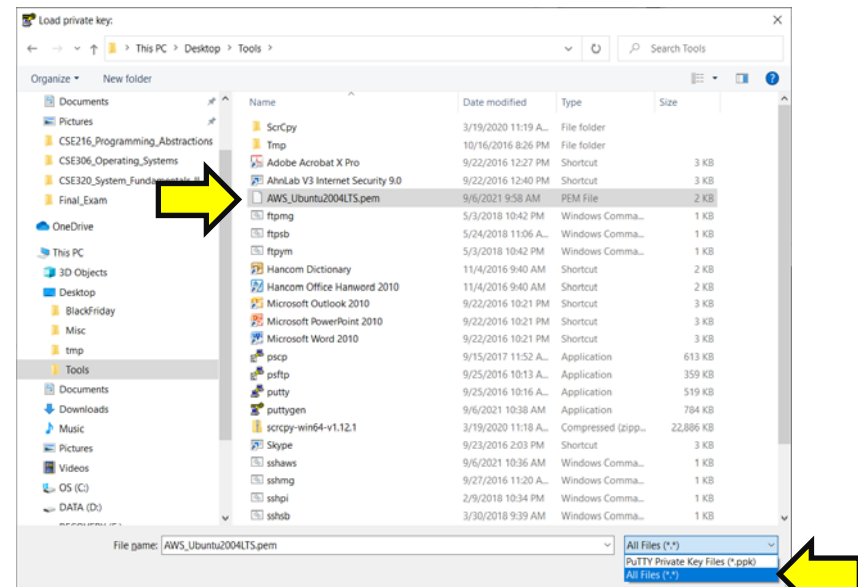
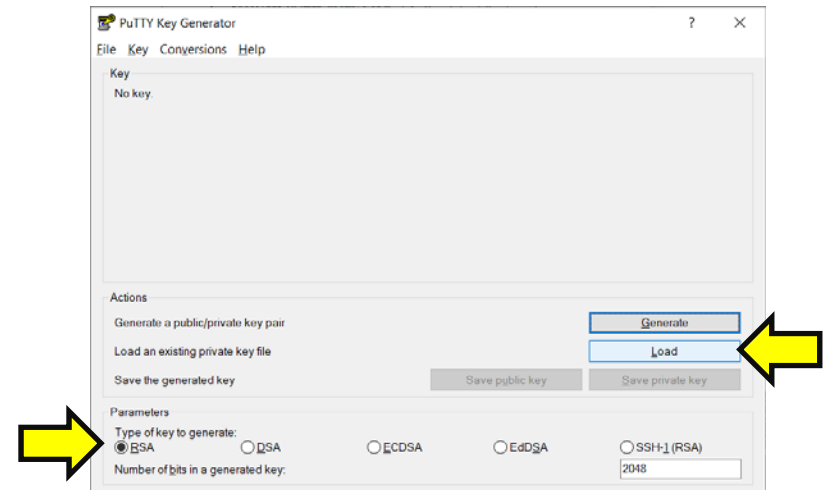
Download putty.exe...

- Goto
 - <https://www.putty.org>
 - Download **putty.exe**
 - Write click on putty.exe
 - Save link as...
 - Download **puttygen.exe**
 - Download **psftp.exe**
- Copy these .exe and the .pem files to a same folder
 - E.g. in Desktop\Tools\



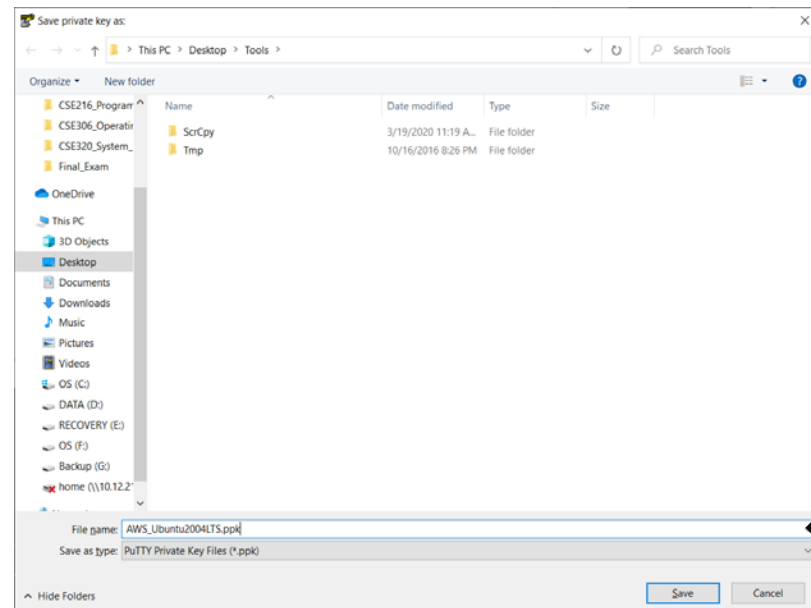
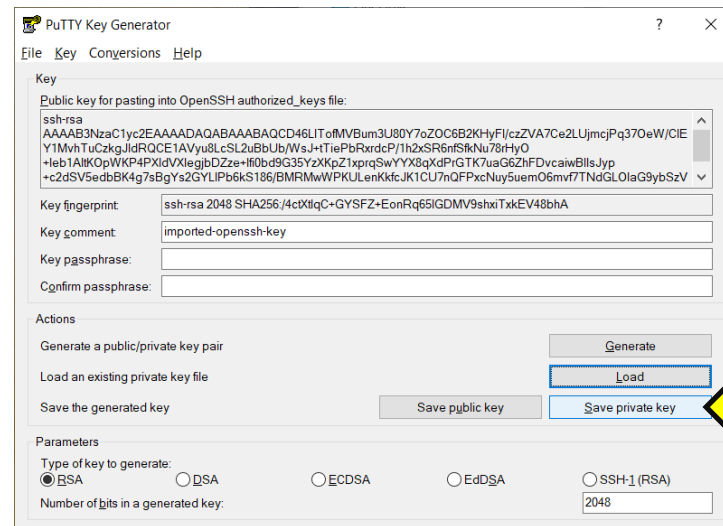
Convert your Private Key (.pem file)

- Run puttygen.exe
- Select RSA ⇒ Load
- Choose “All files (*.*)”
- Select the .pem file
 - . in 20.04LTS is dropped



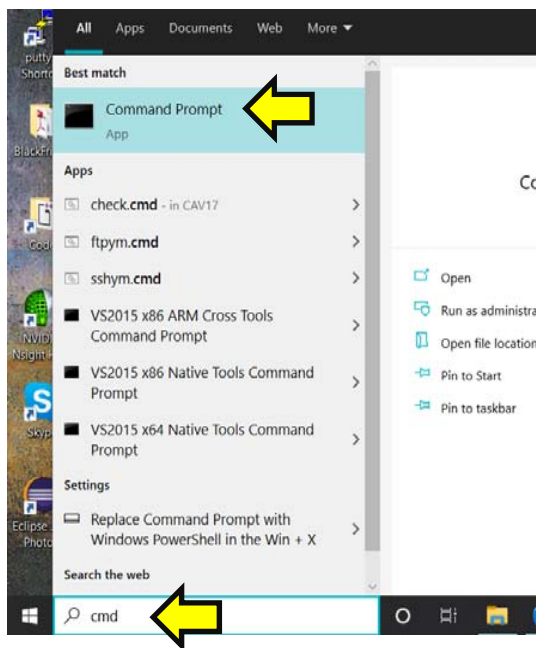
Convert your Private Key (.pem file)

- Save private key
- Save it as a .ppk file



Connect to the VM

- Create a .cmd file (e.g. sshaws.cmd)
 - cd to the folder where .pem, .ppk file, .exe files are
 - notepad sshaws.cmd



```
Command Prompt
Microsoft Windows [Version 10.0.19041.1165]
(c) Microsoft Corporation. All rights reserved.

C:\Users\youngmin.kwon>cd C:\Users\youngmin.kwon\Desktop\Tools
C:\Users\youngmin.kwon\Desktop\Tools>dir AWS*
Volume in drive C is OS
Volume Serial Number is 4208-28A3

Directory of C:\Users\youngmin.kwon\Desktop\Tools

09/06/2021  09:58 AM                1,700 AWS_Ubuntu2004LTS.pem
09/06/2021  10:57 AM                1,462 AWS_Ubuntu2004LTS.ppk
                2 File(s)                3,162 bytes
                0 Dir(s) 108,731,109,376 bytes free

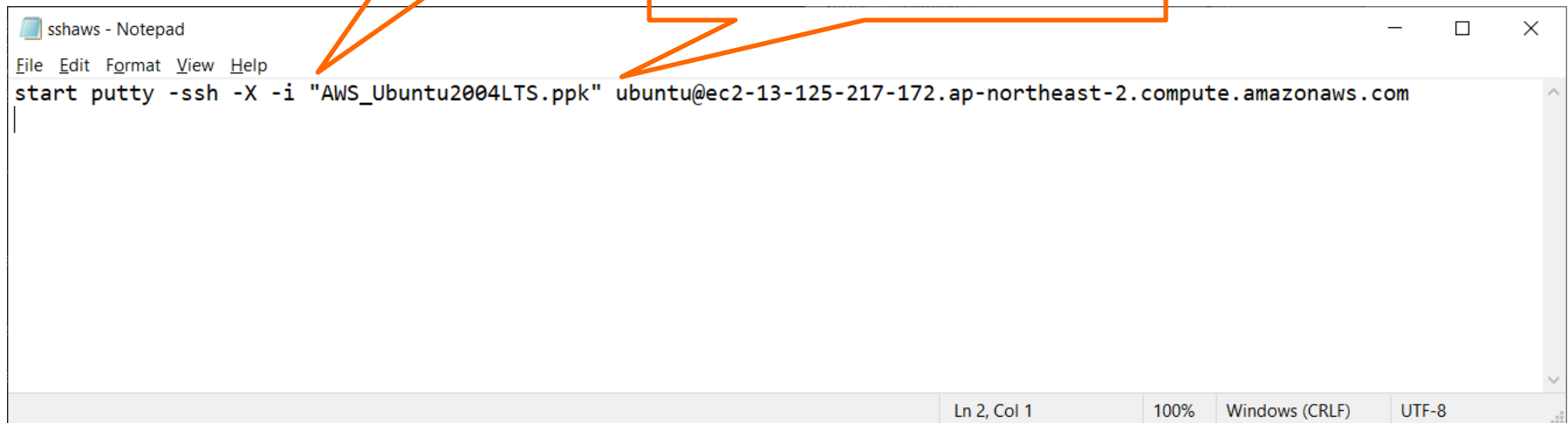
C:\Users\youngmin.kwon\Desktop\Tools>notepad sshaws.cmd
```

Connect to the VM

- In the .cmd file enter the command as in the figure

.ppk file from puttygen.exe

from AWS SSH client tab



The screenshot shows a Notepad window titled "sshaws - Notepad". The menu bar includes "File", "Edit", "Format", "View", and "Help". The text area contains the command: `start putty -ssh -X -i "AWS_Ubuntu2004LTS.ppk" ubuntu@ec2-13-125-217-172.ap-northeast-2.compute.amazonaws.com`. The status bar at the bottom indicates "Ln 2, Col 1", "100%", "Windows (CRLF)", and "UTF-8".

Connect to the VM

- Run the command
 - E.g. sshaws.cmd

```
Command Prompt
C:\Users\youngmin.kwon\Desktop\Tools>dir AWS*. *
Volume in drive C is OS
Volume Serial Number is 4208-28A3

Directory of C:\Users\youngmin.kwon\Desktop\Tools

09/06/2021  09:58 AM                1,700 AWS_Ubuntu2004LTS.pem
09/06/2021  10:57 AM                1,462 AWS_Ubuntu2004LTS.ppk
                2 File(s)                    3,162 bytes
                0 Dir(s)        110,111,059,968 bytes free

C:\Users\youngmin.kwon\Desktop\Tools>notepad sshaws.cmd
C:\Users\youngmin.kwon\Desktop\Tools>sshaws.cmd
```

- You are connected to the VM on AWS

```
ubuntu@ip-172-31-44-244: ~
Using username "ubuntu".
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

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

System information as of Mon Sep  6 06:02:38 UTC 2021

System load:  0.0          Processes:            100
Usage of /:   4.4% of 29.02GB  Users logged in:     0
Memory usage: 22%          IPv4 address for eth0: 172.31.44.244
Swap usage:   0%

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable

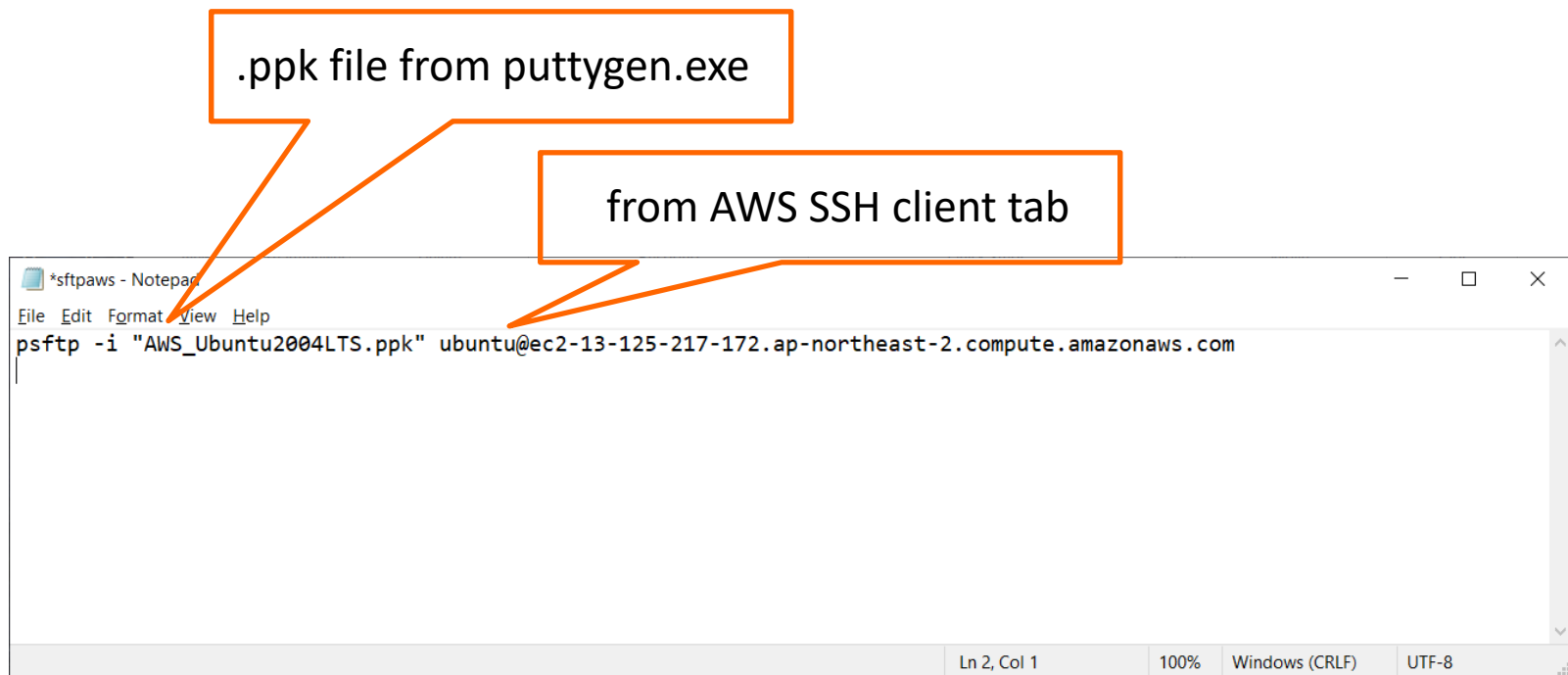
The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Mon Sep  6 04:20:08 2021 from 223.194.196.108
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-44-244:~$
```

Upload/Download Files

- Make a .cmd file (e.g. sftpaws.cmd) and enter the command as in the figure



.ppk file from puttygen.exe

from AWS SSH client tab

```
*sftpaws - Notepad
File Edit Format View Help
psftp -i "AWS_Ubuntu2004LTS.ppk" ubuntu@ec2-13-125-217-172.ap-northeast-2.compute.amazonaws.com
Ln 2, Col 1 100% Windows (CRLF) UTF-8
```

Upload/Download Files

- Run the command (e.g. sftpaws.cmd)
- You can upload/download files
 - E.g. to upload hello.c: **put** hello.c
 - E.g. to download hello.c: **get** hello.c

```
Command Prompt
C:\Users\youngmin.kwon\Desktop\Tools>sftpaws.cmd
C:\Users\youngmin.kwon\Desktop\Tools>psftp -i "AWS_Ubuntu2004LTS.ppk" ubuntu@ec2-13-125-217-172.ap-no
Using username "ubuntu".
Remote working directory is /home/ubuntu
psftp> put hello.c
local:hello.c => remote:/home/ubuntu/hello.c
psftp> get hello.c
remote:/home/ubuntu/hello.c => local:hello.c
psftp> bye
C:\Users\youngmin.kwon\Desktop\Tools>
```

To Stop the VM

- After use, stop the VM
 - If you use multiple VMs, after the free limit (750 hr/mo) AWS will charge you
 - EC2 Dashboard ⇒ Instances ⇒ Select the VM ⇒ Instance State ⇒ Stop Instance (don't touch Terminate instance)

The image consists of two screenshots of the AWS Management Console, illustrating the steps to stop an EC2 instance.

Top Screenshot: Shows the 'Instances (1/1) Info' page. The instance is in a 'Running' state. The 'Instance state' dropdown menu is open, and the 'Stop instance' option is highlighted with a yellow arrow. Other options visible include 'Start instance', 'Reboot instance', 'Hibernate instance', and 'Terminate instance'.

Bottom Screenshot: Shows the same 'Instances (1) Info' page. The instance is now in a 'Stopped' state, indicated by a grey stop icon in the 'Instance state' column. A yellow arrow points to the 'Stopped' status.

Yellow arrows in both screenshots point to the 'EC2 Dashboard' link in the left-hand navigation menu.

To Restart the VM

- EC2 Dashboard ⇒ Instances ⇒ Select the VM ⇒ Instance State ⇒ Start instance
- The SSH client will be changed after restart

The image displays two screenshots of the AWS Management Console, illustrating the process of restarting an EC2 instance.

Top Screenshot: The console shows the 'Instances (1/1)' page. The instance is in a 'Stopped' state. The 'Instance state' dropdown menu is open, and the 'Start instance' option is selected. A yellow arrow points to the 'Start instance' option.

Bottom Screenshot: The console shows the same instance, now in a 'Running' state. A yellow arrow points to the 'Running' state in the 'Instance state' column.

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability zone |
|------|---------------------|----------------|---------------|-------------------|--------------|-------------------|
| - | i-0d8ee7e0a363f92d0 | Stopped | t2.micro | - | No alarms | ap-northeast-2 |
| - | i-0d8ee7e0a363f92d0 | Running | t2.micro | 2/2 checks passed | No alarms | ap-northeast-2 |