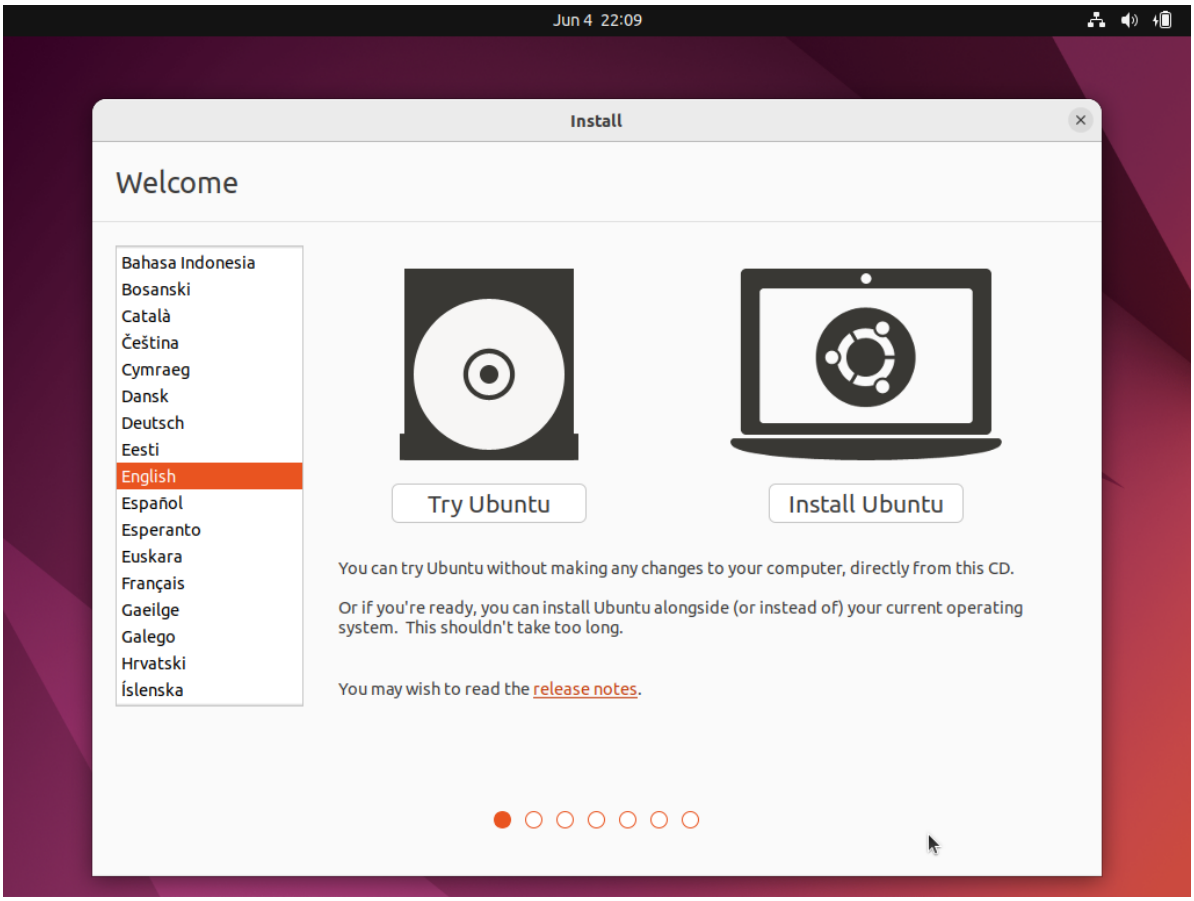
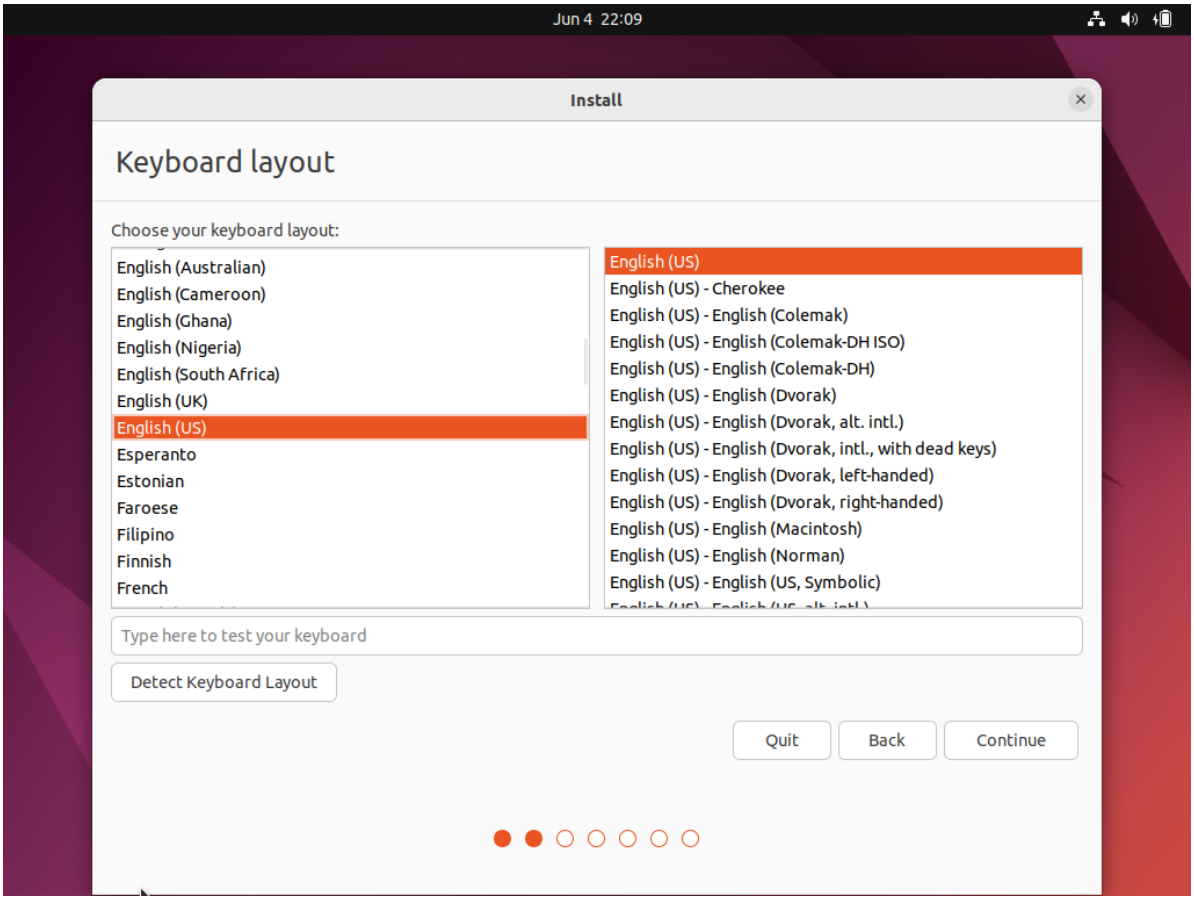
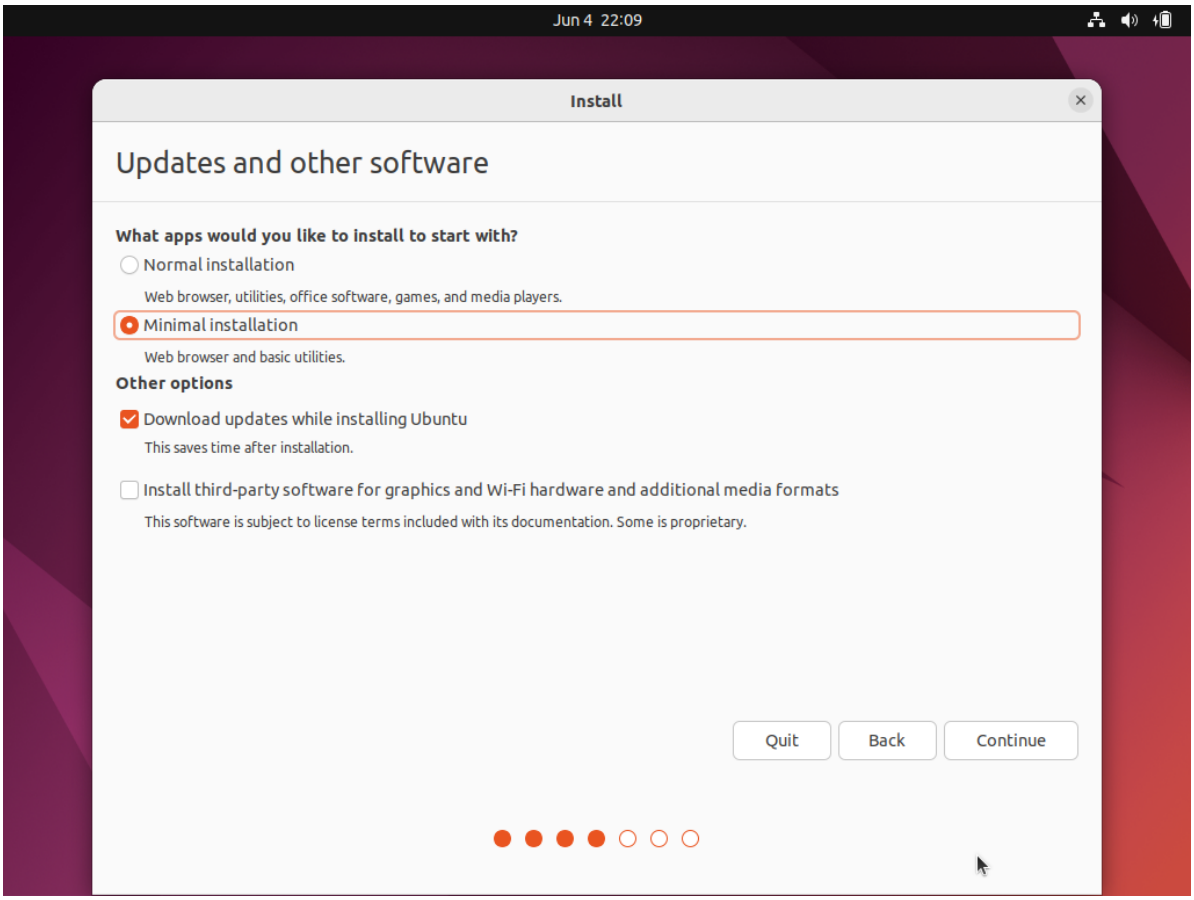
Setup Linux Machine

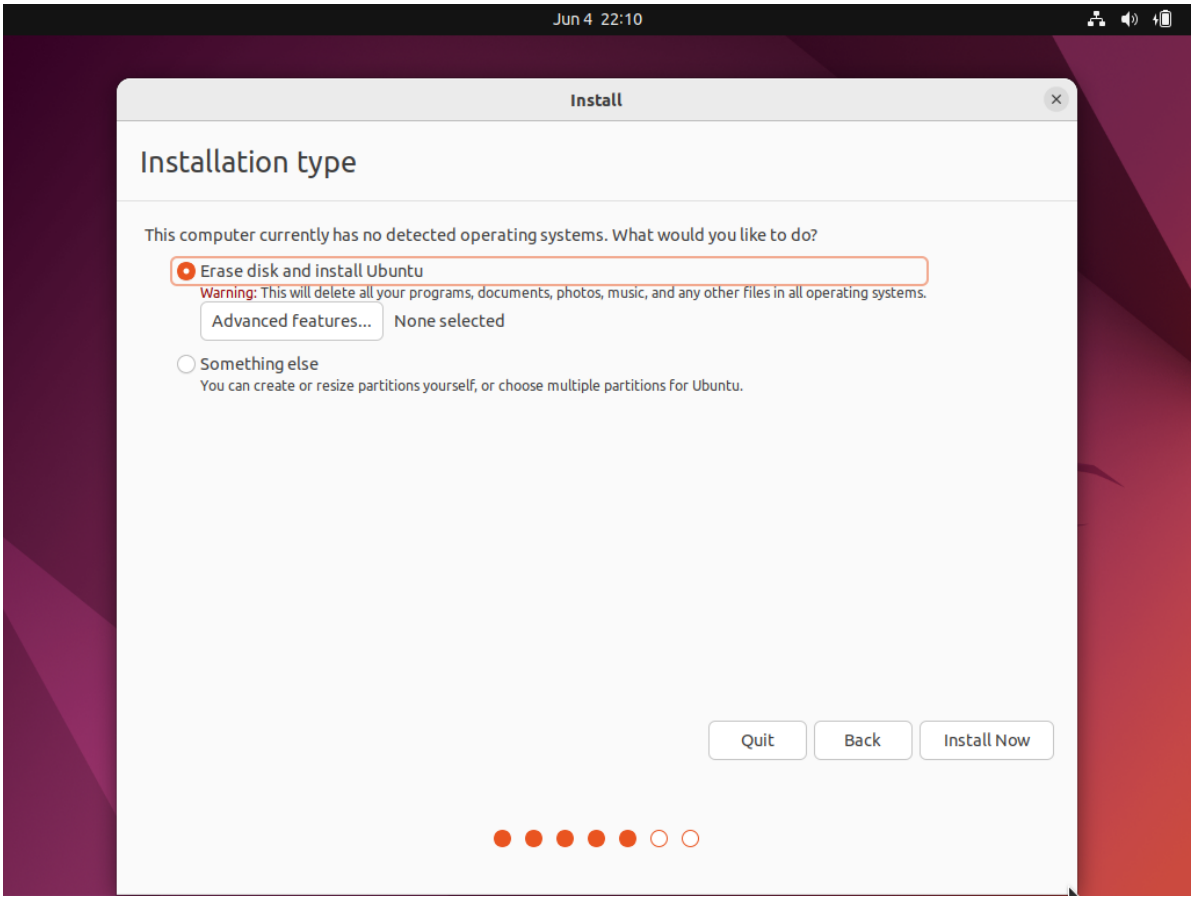
VMWare

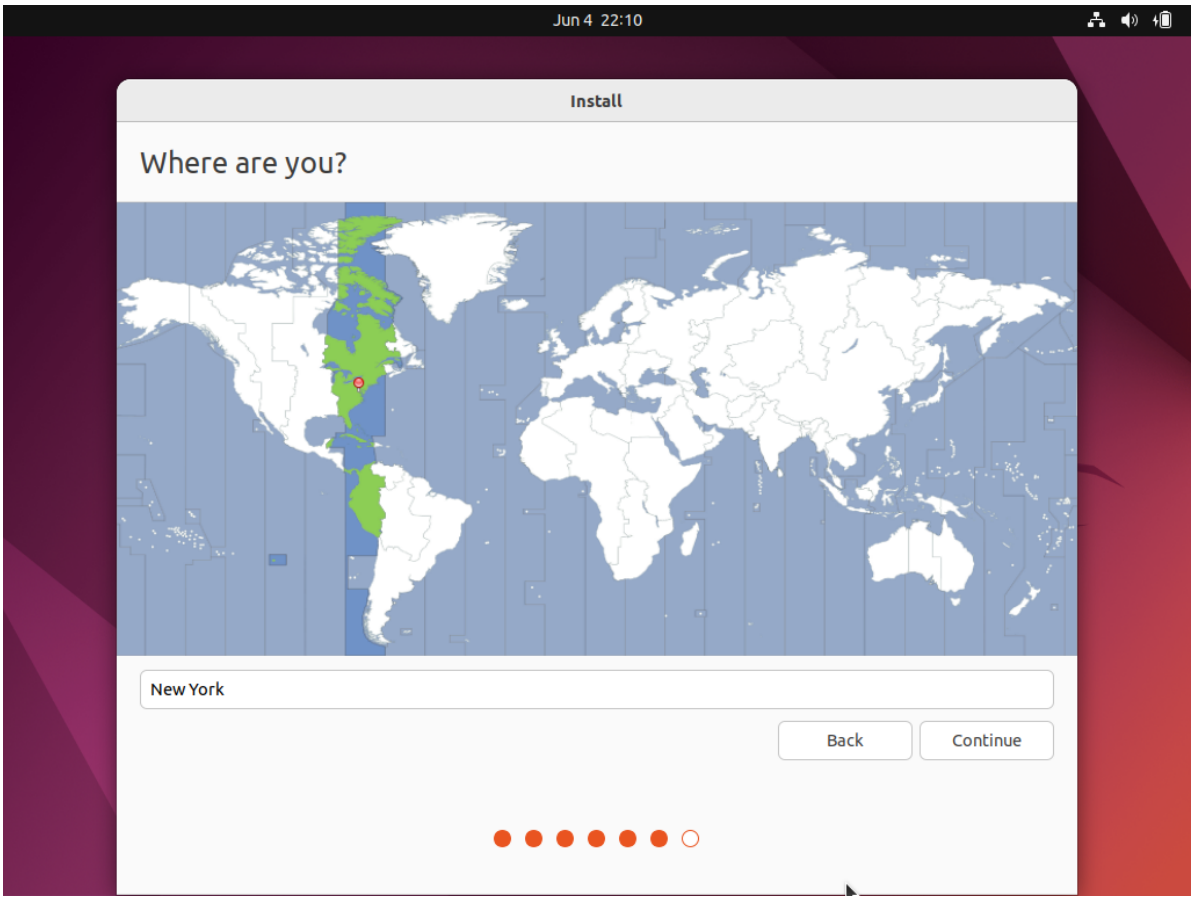
- Download VMWare Player. It is free.
- Download Ubuntu iso. It is free.
- Create a virtual machine, using Ubuntu as system image. Follow the following procedures to make it:

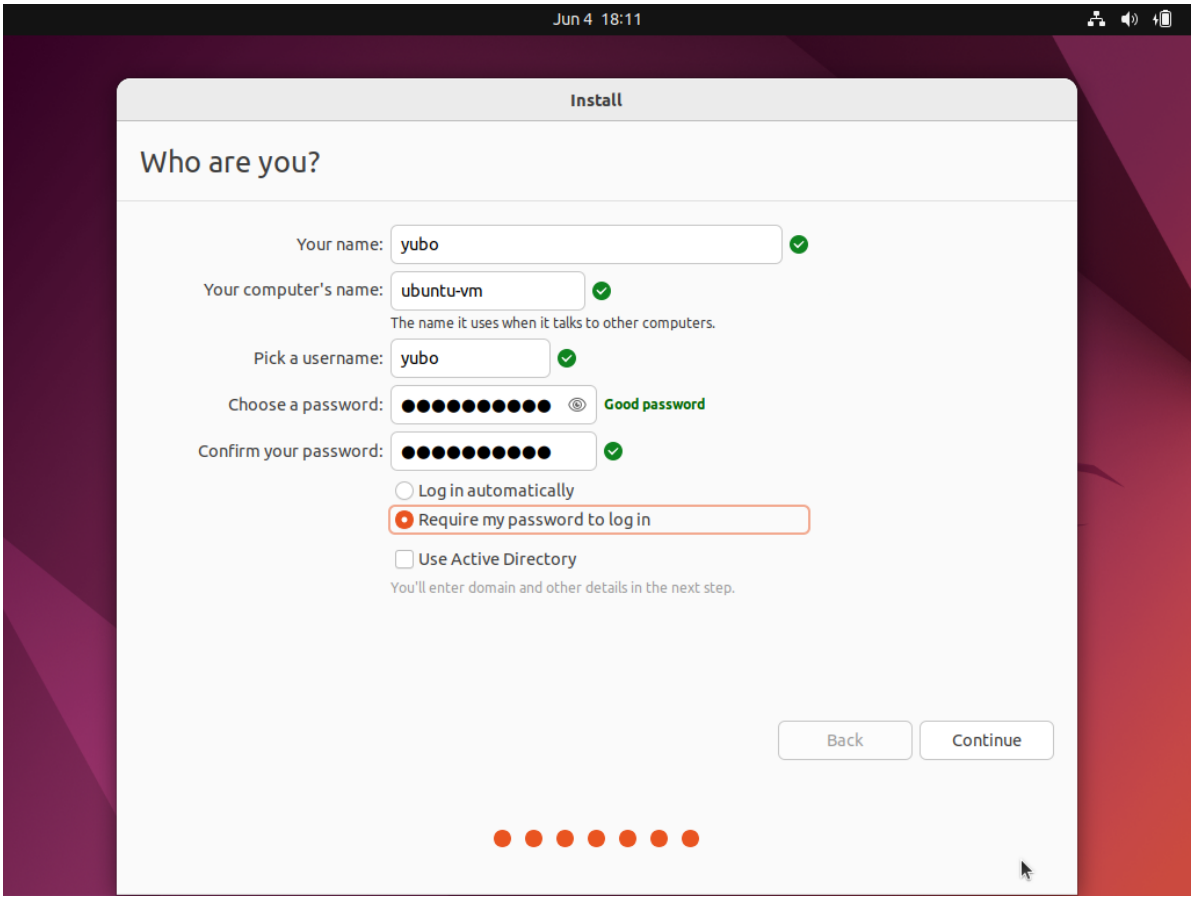


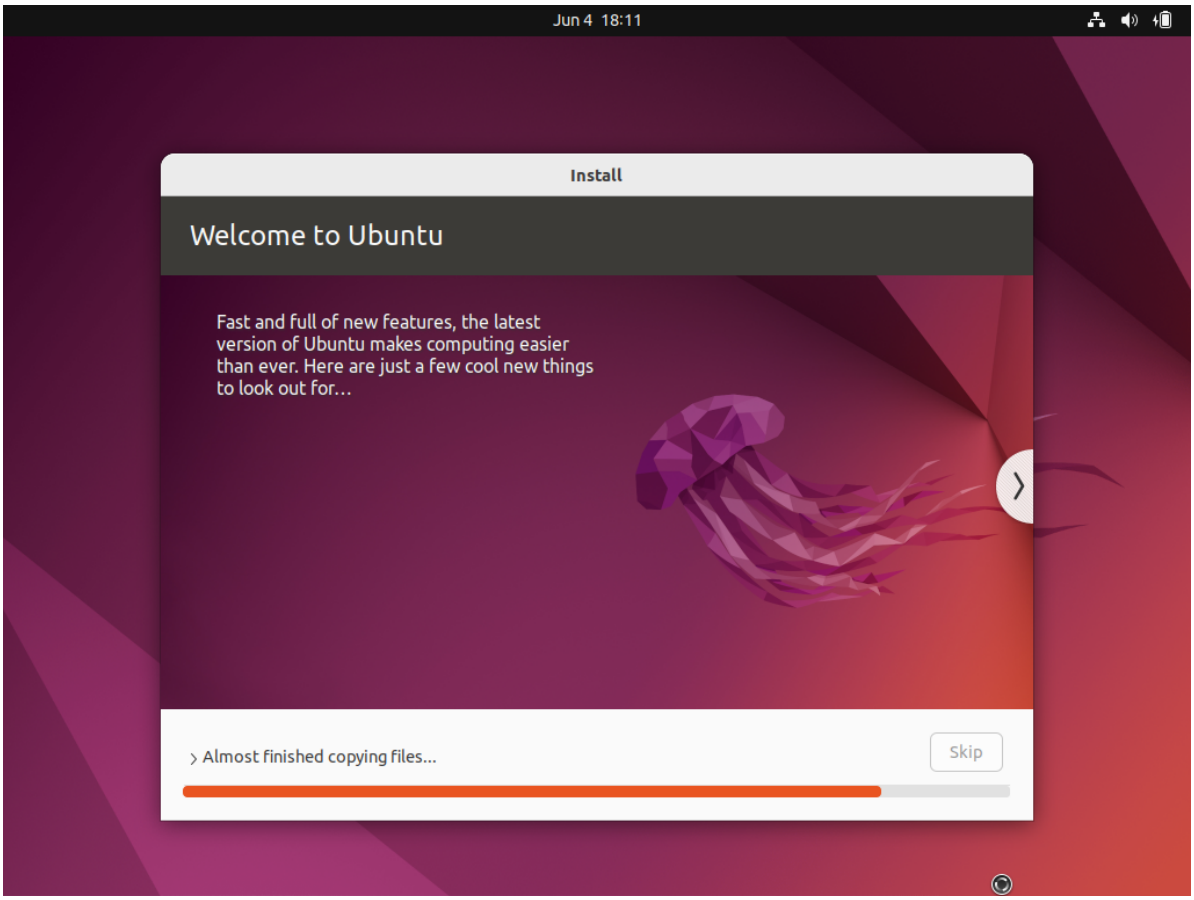

Jun 4 22:09
Install
Keyboard layout
Choose your keyboard layout:
English (Australian)
English (Cameroon)
English (Ghana)
English (Nigeria)
English (South Africa)
English (UK)
English (US)
Esperanto
Estonian
Faroese
Filipino
Finnish
French
English (US)
English (US) - Cherokee
English (US) - English (Colemak)
English (US) - English (Colemak-DH ISO)
English (US) - English (Colemak-DH)
English (US) - English (Dvorak)
English (US) - English (Dvorak, alt. intl.)
English (US) - English (Dvorak, intl., with dead keys)
English (US) - English (Dvorak, left-handed)
English (US) - English (Dvorak, right-handed)
English (US) - English (Macintosh)
English (US) - English (Norman)
English (US) - English (US, Symbolic)
Type here to test your keyboard
Detect Keyboard Layout
Quit
Back
Continue


Jun 4 22:09
Install
Updates and other software
What apps would you like to install to start with?
Normal installation
Web browser, utilities, office software, games, and media players.
Minimal installation
Web browser and basic utilities.
Other options
Download updates while installing Ubuntu
This saves time after installation.
Install third-party software for graphics and Wi-Fi hardware and additional media formats
This software is subject to license terms included with its documentation. Some is proprietary.
Quit
Back
Continue


Jun 4 22:10
Install
Installation type
This computer currently has no detected operating systems. What would you like to do?
Erase disk and install Ubuntu
Warning: This will delete all your programs, documents, photos, music, and any other files in all operating systems.
Advanced features...
None selected
Something else
You can create or resize partitions yourself, or choose multiple partitions for Ubuntu.
Quit
Back
Install Now

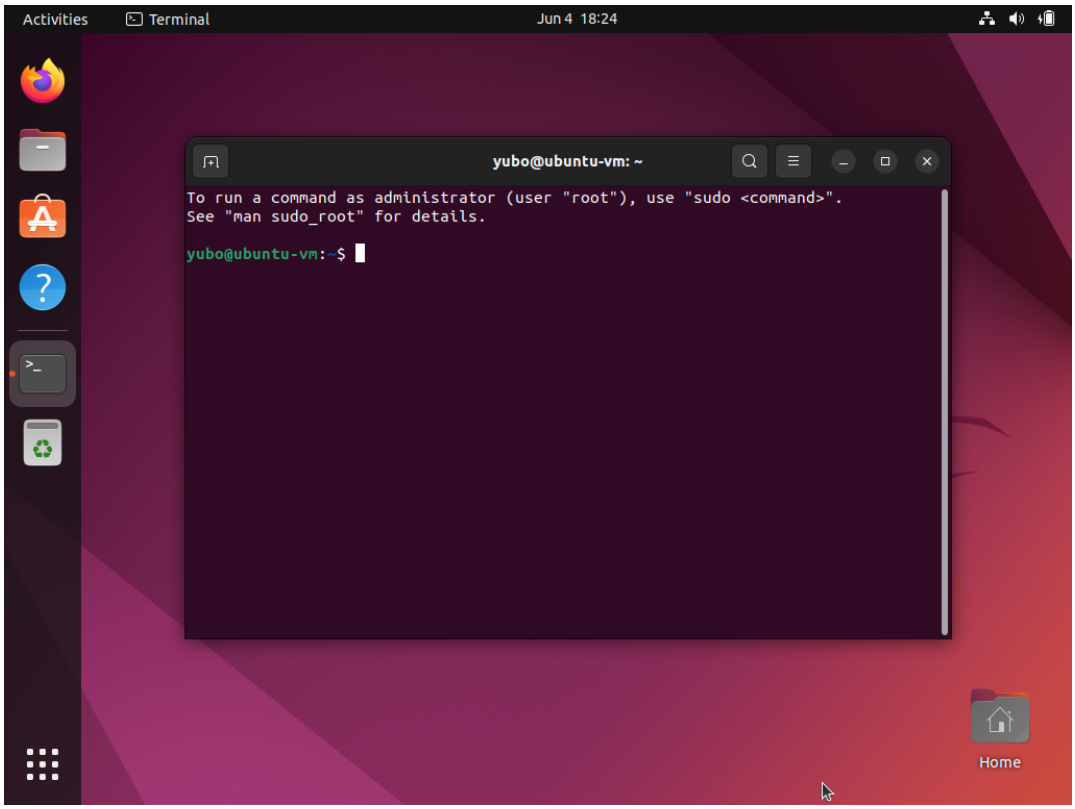

Jun 4 22:10
Install
Where are you?
New York
Back
Continue


Jun 4 18:11
Install
Who are you?
Your name: yubo
Your computer's name: ubuntu-vm
The name it uses when it talks to other computers.
Pick a username: yubo
Choose a password: ●●●●●●●●●● Good password
Confirm your password: ●●●●●●●●●●
Log in automatically
Require my password to log in
Use Active Directory
You'll enter domain and other details in the next step.
Back
Continue


Jun 4 18:11
Install
Welcome to Ubuntu
Fast and full of new features, the latest version of Ubuntu makes computing easier than ever. Here are just a few cool new things to look out for…
› Almost finished copying files...
Skip

Root

Terminal

- `Ctrl + Alt + T`
  - 

- **Don’t worry** if this terminal looks shabby and you want to go back to your windows machine. **SSH** will help!

Root

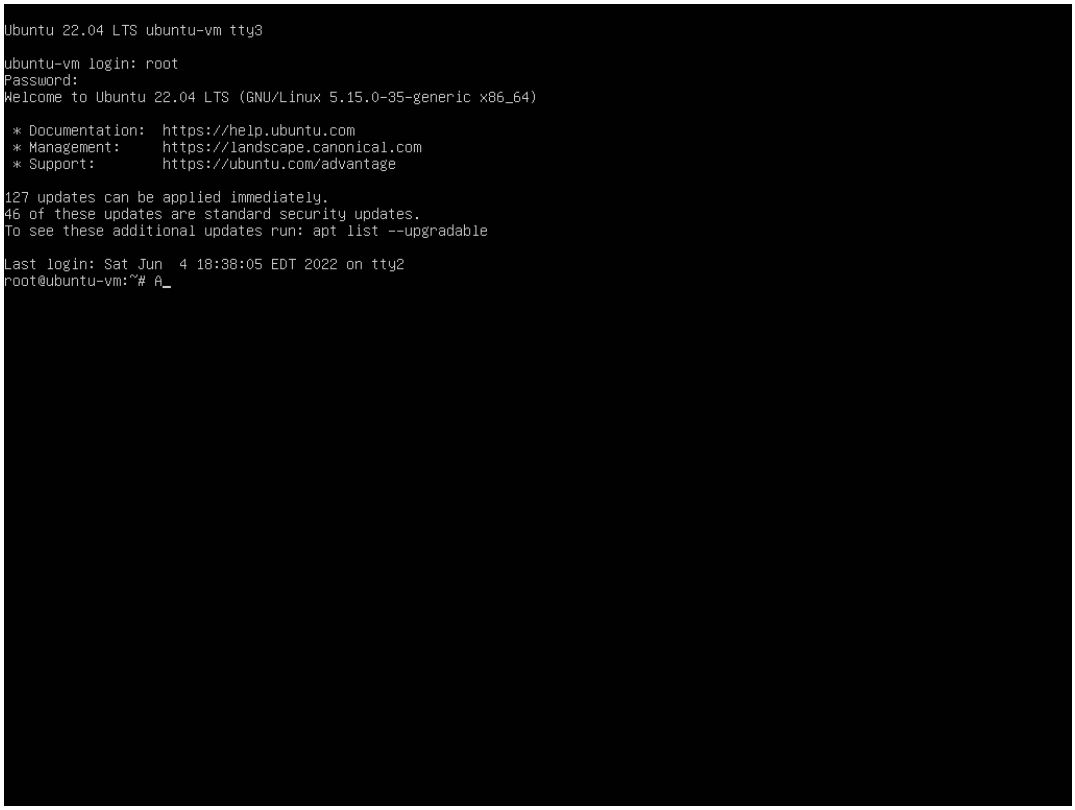
- Sudo allow you execute command with `root` privilege.
- However, Ubuntu did some trick so that you can’t login as `root`. Sometrick will be provided to address that.
- **Do not do that for competition machine**, this is just to make life easier, but make the system more vulnerable.

NOPASSWD

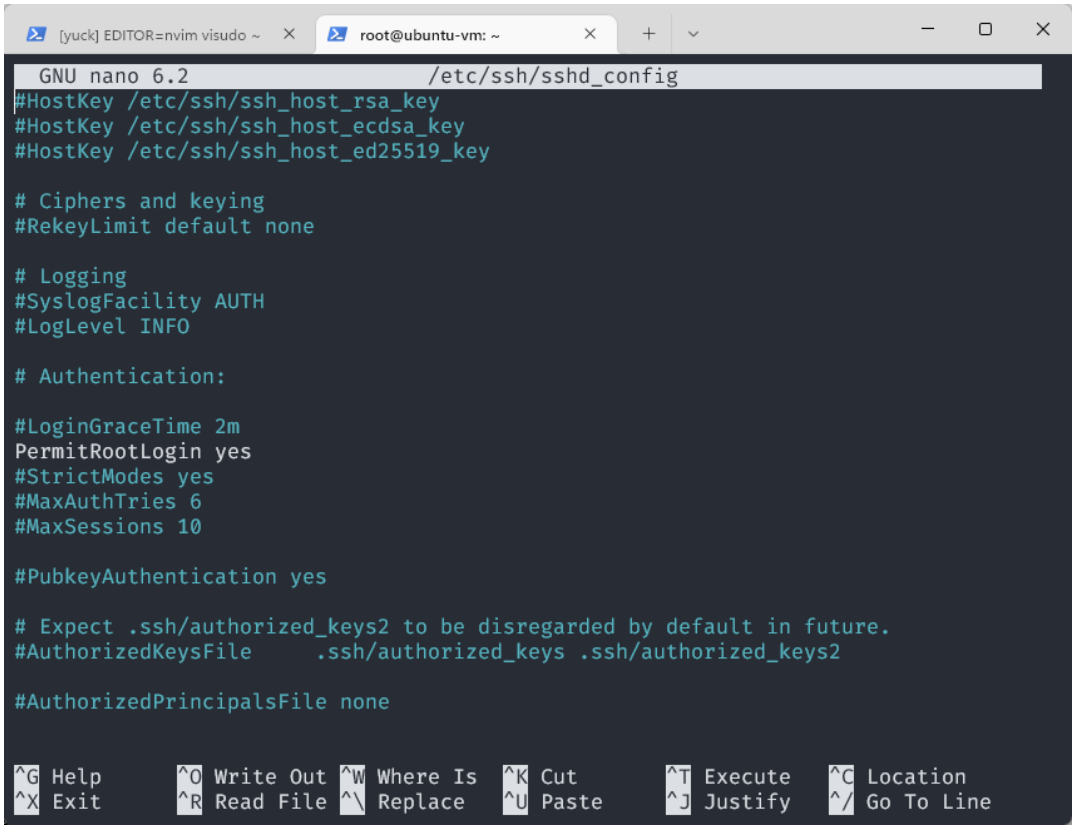
- `sudo visudo`, go to the line where `%sudo` is presented, and modify it as follows
  - ```
    %sudo   ALL=(ALL:ALL) NOPASSWD: ALL
    ```

ROOT

- `sudo passwd root`
  - Type the password you want to set for `root`. Nothing will change in the terminal, but the password is recorded.
- after that, `su root` and type the password you have set. Everything would work.
  - However, you still can not login in to GUI as root. They won’t release that restriction.
- Virtual terminal would work. Type `Ctrl+Alt+F2` to login as root.
    ```

- 

SSH

- `apt install openssh-server`
- `vim /etc/ssh/sshd_config`
  - 

  - Change `PermiRootLogin` to `yes`
- `ip --family inet --color address | perl -nle 'print $1 if /((?:\d{1,3}\.){3}\d{1,3}).*eth0/'`
  - Issue this command to get ip address of your guest machine.
- On **windows**, execute `ssh -l root $ip`, where `$ip` is obtained in previous step.

- Type yes for the prompt.
- Type password for root in the Ubuntu machine.