

國立陽明交通大學資訊工程學系資訊中心 IT Center of Department of Computer Science, National Yang Ming Chiao Tung University

Install Debian

Debian

- Debian is an operating system based on Linux kernel and a distribution of Free Software.
- NYCU CSIT uses Debian to build services, including workstations, websites, etc.



ISO

- ISO is a file format that contains a complete image of an operating system installation disc.
- It can be used to create bootable media like USB drives or DVDs.

Install Debian



Download Debian ISO

- The newest version of Debian is 13.0, which is release on August, 2025.
- The ISO file can be found in the <u>official download page</u> or the following two mirror sites in Taiwan:
 - https://debian.cs.nycu.edu.tw/debian-cd/
 - https://free.nchc.org.tw/debian-cd/

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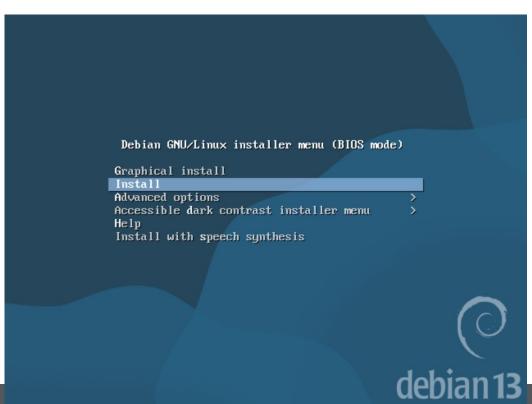


Debian Installation - TL;DR

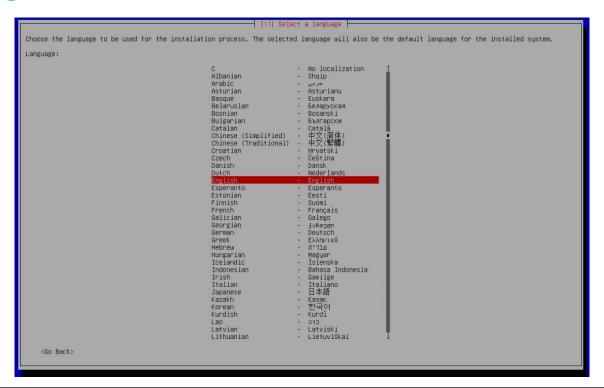
- A few things to notice
 - The country should be TW.
 - The keymap and locale should be en_US.
 - For disk partitioning, you can use the guided one and leave everything default.
 - NYCU CSIT hosts a Debian mirror site on <u>debian.cs.nycu.edu.tw</u>, and you can choose it when selecting mirror site.
 - For package selection, it's recommended to select openssh-server. Desktop environment is up to you.
- And you can leave others default.

Installation Menu

- Selecting "Install" is recommended.
- "Graphical Install" sometimes breaks.



Language Selection





Location Selection

Choose "other >> Asia >> Taiwan".



Locale & Keymap Selection

```
[!] Configure locales
There is no locale defined for the combination of language and country you have selected. You can now select your preference from the locales
available for the selected language. The locale that will be used is listed in the second column.
Country to base default locale settings on:
                                                     Antigua and Barbuda - en AG
                                                     Australia
                                                                          - en AU.UTF-8
                                                     Botswana
                                                                         - en BW.UTF-8
                                                     Canada
                                                                         - en CA.UTF-8
                                                     Hong Kong
                                                                         - en_HK.UTF-8
                                                     India
                                                                         - en IN
                                                     Ireland
                                                                         - en IE.UTF-8
                                                     Israel
                                                                         - en_IL
                                                     New Zealand
                                                                         - en_NZ.UTF-8
                                                     Nigeria
                                                                         - en NG
                                                     Philippines
                                                                         - en_PH.UTF-8
                                                     Seuchelles
                                                                         - en_SC.UTF-8
                                                     Singapore
                                                                         - en_SG.UTF-8
                                                     South Africa
                                                                         - en_ZA.UTF-8
                                                     United Kingdom
                                                                         - en_GB.UTF-8
                                                     Zambia
                                                                         - en_ZM
                                                     Zimbabwe
                                                                         - en_ZW.UTF-8
    <Go Back>
```



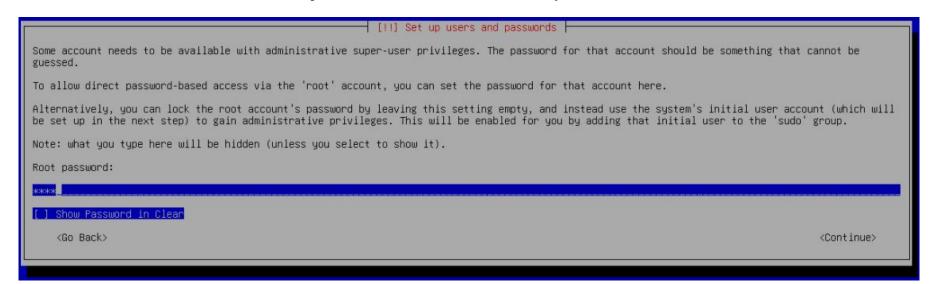
Hostname & Domain name

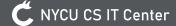
You can configure your own hostname and domain name based on the homework requirements.

[!] Configure the network	
Please enter the hostname for this system.	
The hostname is a single word that identifies your system to the network. If you don't know what your hostname should be, consuladministrator. If you are setting up your own home network, you can make something up here.	lt your network
Hostname:	
nasa-hu	
<go back=""></go>	<continue></continue>
[!] Configure the network	
The domain name is the part of your Internet address to the right of your host name. It is often something that ends in .com, .net, If you are setting up a home network, you can make something up, but make sure you use the same domain name on all your computers.	.edu, or .org.
Domain name:	
2025.sa	
<go back=""></go>	<continue></continue>

Set Root Password

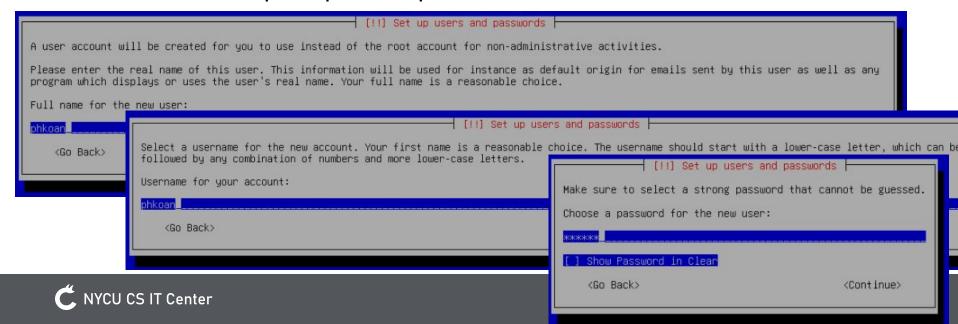
- Choose your own password.
- The installer will ask your confirmation for password.





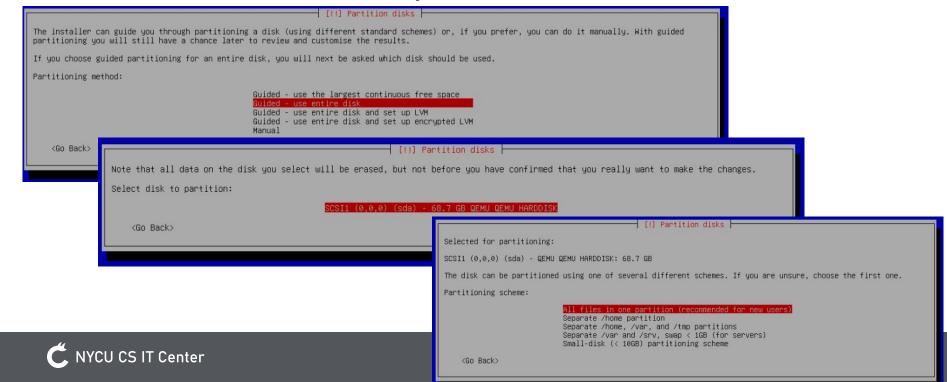
Setup User Account

- Enter your desired username and password.
 - Full name and username can be the same.
- You will also be prompted for password confirmation.



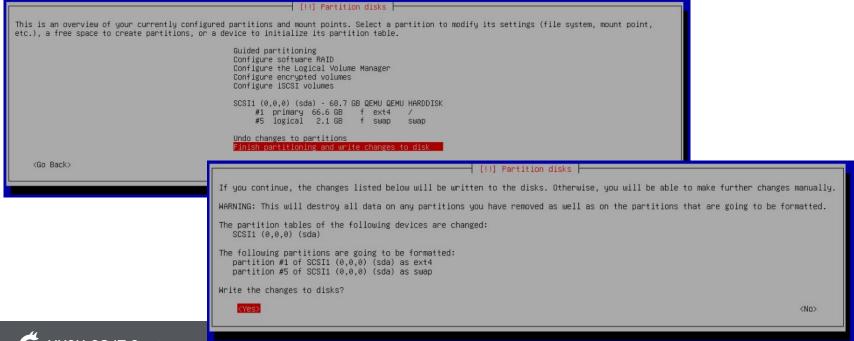
Disk Partitioning

Choose "Guide - use entire disk" if you are new to Linux.



Disk Partitioning

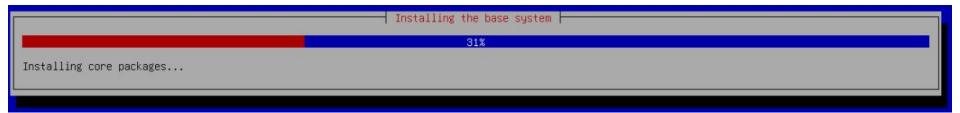
Finish partitioning and write changes to disk.





Base System Installation

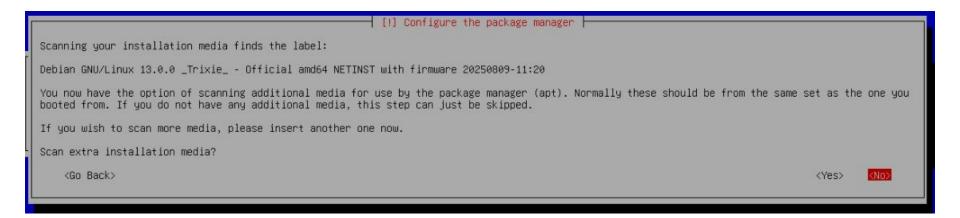
Just wait a few minutes.





Extra Installation Media

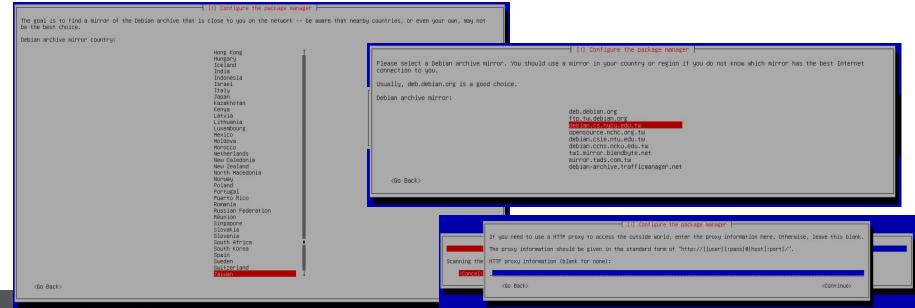
It can be skipped for now.





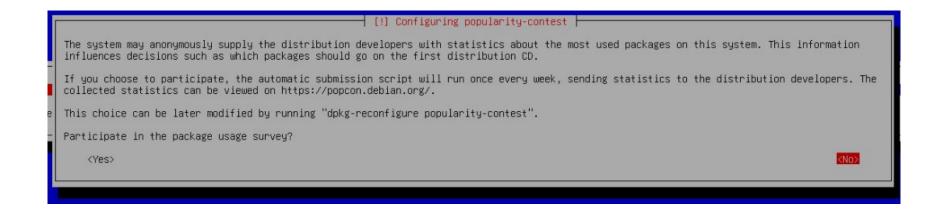
Package Mirror Selection

- NYCU CSIT hosts a Debian mirror site on <u>debian.cs.nycu.edu.tw</u>.
- The proxy can be left empty.



Popularity Contest Survey

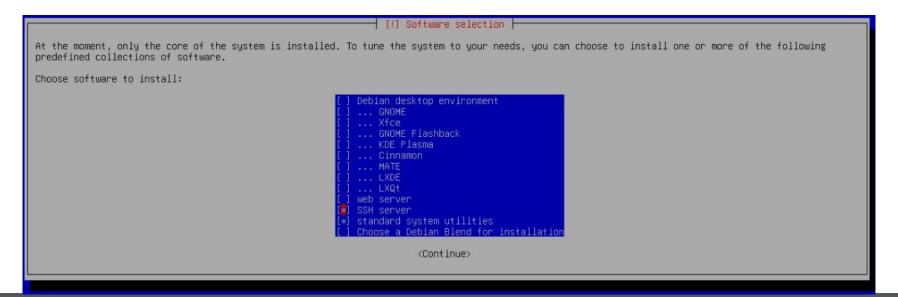
This selection is up to you.





Software Selection

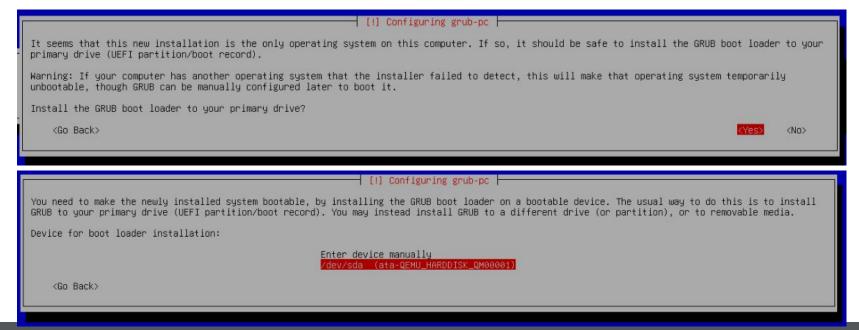
- Select SSH server and standard system utilities.
- You can select desktop environment, but this can slow down your system.





Grub installation

Install grub on the drive.





Finishing Installation

Choose "Continue" to reboot and enjoy your system.

```
[!!] Finish the installation
                                                              Installation complete
  Installation is complete, so it is time to boot into your new system. Make sure to remove the installation media, so that you boot into the new
  system rather than restarting the installation.
  Please choose (Continue) to reboot.
      (Go Back)
Debian GNU/Linux 13 nasa tty1
nasa login: phkoan
assword:
inux nasa 6.12.41+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.41-1 (2025-08-12) x86_64_
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
phkoan@nasa:~$
```

