

How to Login MySQL Server?

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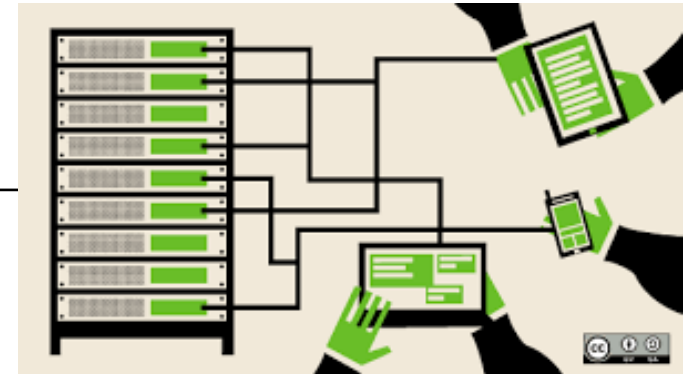
What is a server?

Computers in TC301
(Linux server)

Your computer
(Windows or Mac)



Remote control

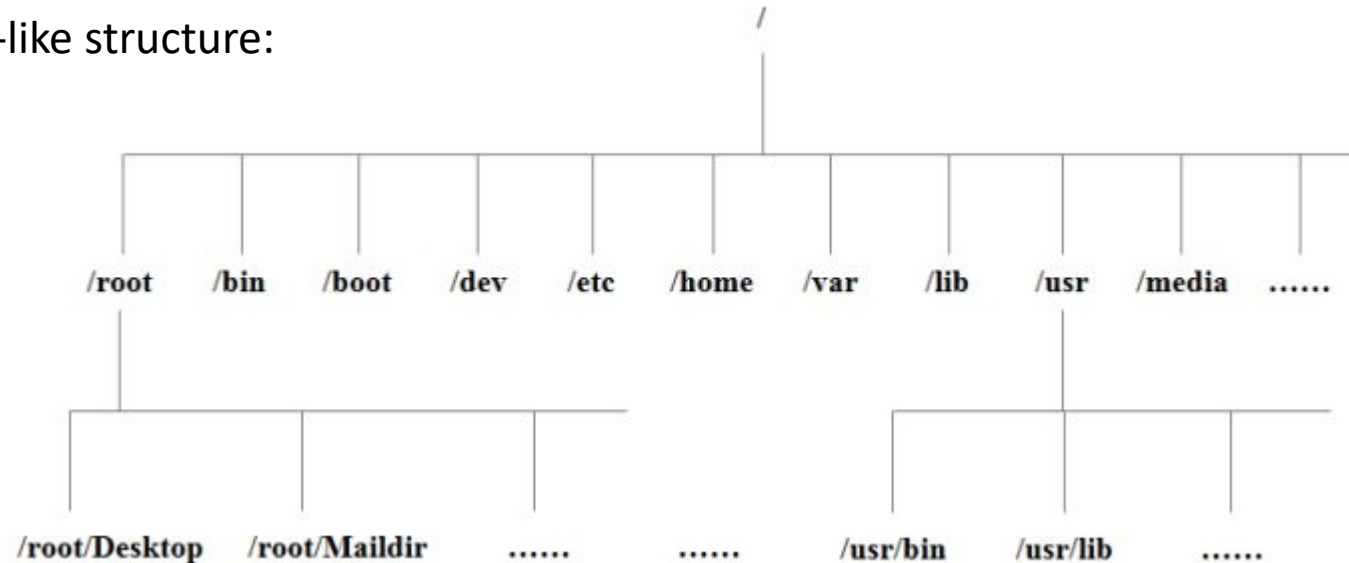


A server is a computer or system that provides resources, data, services, or programs to other computers, known as clients, over a network. In theory, whenever computers share resources with client machines they are considered servers. There are many types of servers, including web servers, mail servers, and virtual servers.

How to work on Linux OS?

```
[student@bogon ~]$ ls /
bin    dev    home  lib64  mnt    proc   run    srv    tmp    var
boot   etc    lib    media  opt     root   sbin   sys    usr
[student@bogon ~]$
```

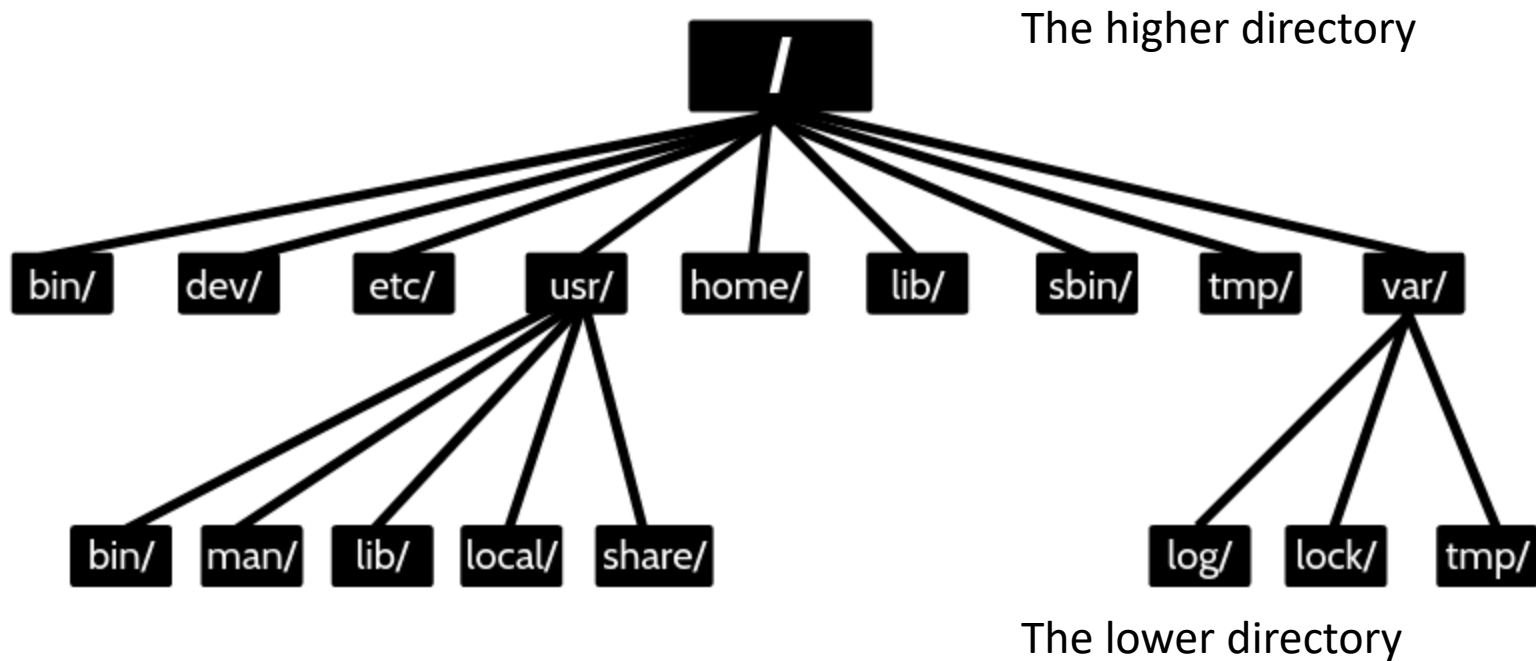
Tree-like structure:



For Linux Beginners: <https://www.lifewire.com/beginners-guide-to-linux-4090233>

Linux Reference Manual (in Chinese): <http://www.runoob.com/linux/linux-tutorial.html>

Linux file system structure: directory tree





Terminal

- Mac

Open Terminal

On your Mac, do one of the following:

- Click the Launchpad icon  in the Dock, type Terminal in the search field, then click Terminal.
- In the Finder , open the /Applications/Utilities folder, then double-click Terminal.

- Windows

- Download putty

- <https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>

- Input “WIN + R” and search “cmd”

How to log in Linux server?

- **Command**

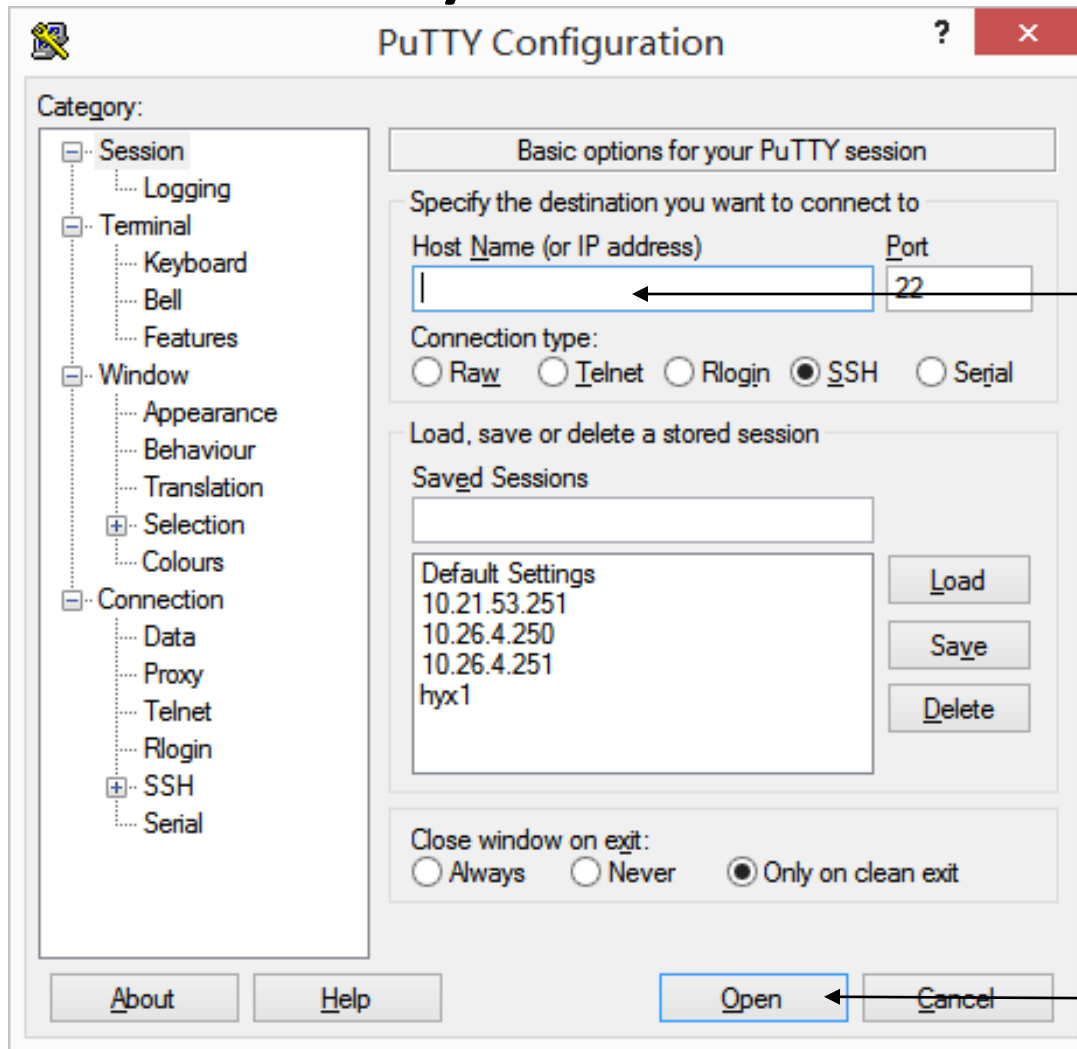
- `ssh -p 22 account@server IP`

- `ssh -p 22 NYCU-BiOmicsLab@140.115.50.198`
pwd: biomics317@nycu

Download the Putty Program

- Step 1: Download the **putty-64bit-0.79-installer** from E3 system.
- Step 2: Install the **putty-64bit-0.79-installer**
- Step 3: Execute the **putty.exe** program

Putty visual interface

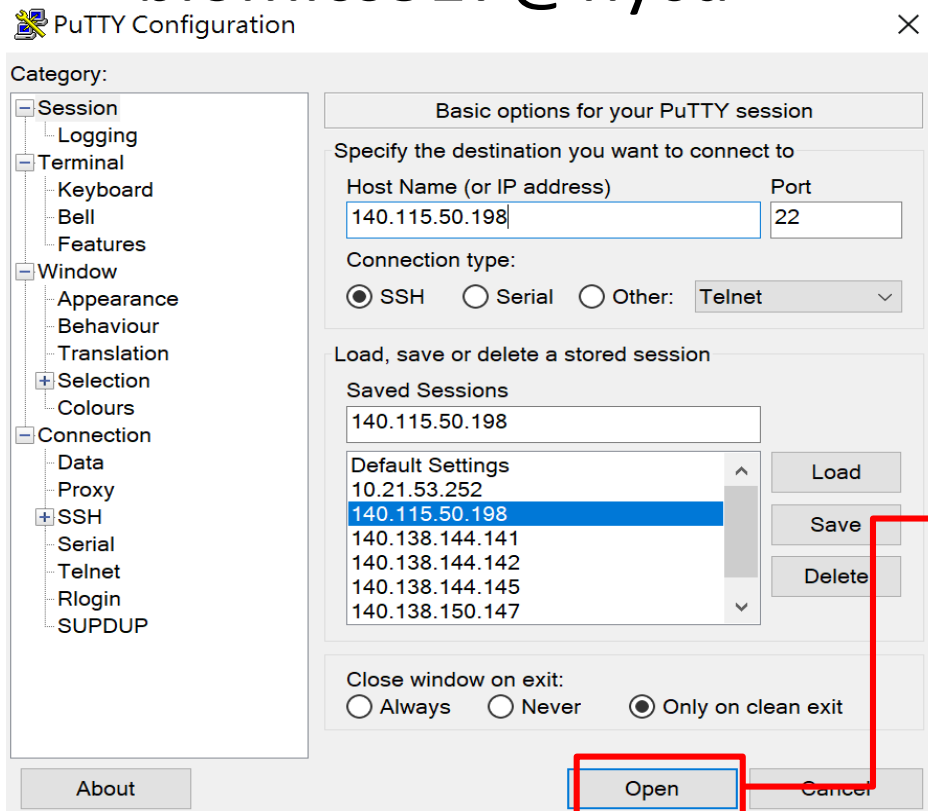


The first step:
Input server IP

The second step:
Open

Setup the login information

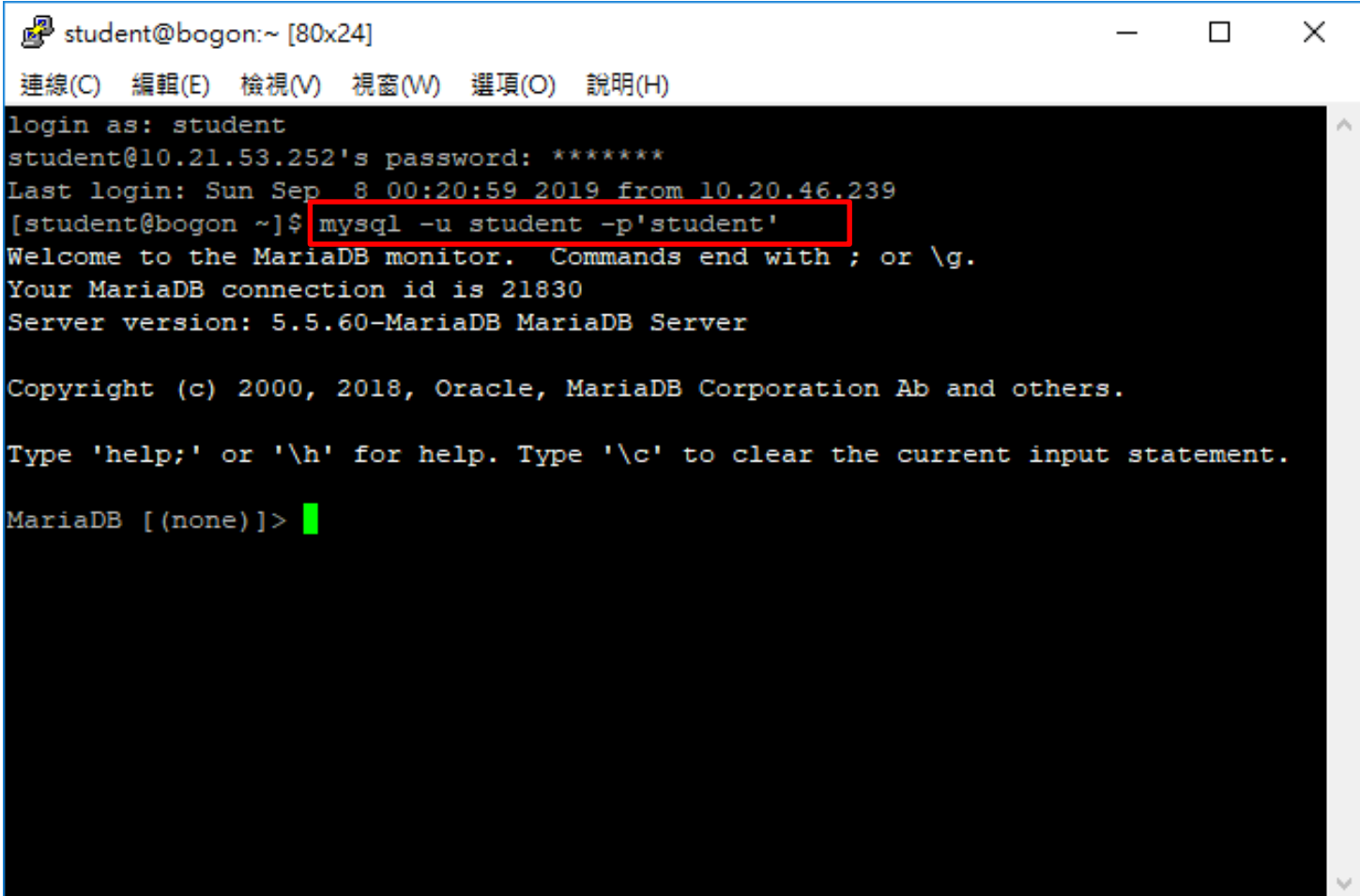
- Linux server IP : 140.115.50.198
- Port : 22
- User account/password : NYCU-BiOmicsLab / biomics317@nycu



```
NYCU-BiOmicsLab@NCU-IntelliBioMedLab: ~  
login as: NYCU-BiOmicsLab  
NYCU-BiOmicsLab@140.115.50.198's password:  
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-32-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
Expanded Security Maintenance for Applications is not enabled.  
  
11 updates can be applied immediately.  
To see these additional updates run: apt list --upgradable  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
Last login: Mon Sep 18 19:24:07 2023 from 140.115.50.198  
NYCU-BiOmicsLab@NCU-IntelliBioMedLab:~$ ls  
Desktop Documents Downloads Music Pictures Public snap Templates  
NYCU-BiOmicsLab@NCU-IntelliBioMedLab:~$ cd ..  
NYCU-BiOmicsLab@NCU-IntelliBioMedLab:/home$ ls  
ncu-intelliobiomedlab NYCU-BiOmicsLab  
NYCU-BiOmicsLab@NCU-IntelliBioMedLab:/home$ cd ..  
NYCU-BiOmicsLab@NCU-IntelliBioMedLab:/home$ ls  
bin cdrom etc lib lib64 lost+found mnt proc run snap swa
```

Login the MySQL DBMS

- Input the `mysql -u student -p'student'` in the command line to login MySQL.

A terminal window titled 'student@bogon:~ [80x24]' with standard window controls. The terminal shows the login process for a user named 'student'. It displays the password prompt, the last login time, and the command 'mysql -u student -p'student'' which is highlighted with a red box. The terminal then shows the MariaDB monitor welcome message, connection ID, server version, and copyright information. The prompt 'MariaDB [(none)]>' is shown at the bottom with a green cursor.

```
student@bogon:~ [80x24]
連線(C) 編輯(E) 檢視(V) 視窗(W) 選項(O) 說明(H)
login as: student
student@10.21.53.252's password: *****
Last login: Sun Sep  8 00:20:59 2019 from 10.20.46.239
[student@bogon ~]$ mysql -u student -p'student'
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 21830
Server version: 5.5.60-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> █
```

```
student@CSB-Course:~ [75x27]
nt.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| student |
| student2 |
| student3 |
| test |
+-----+
5 rows in set (0.00 sec)

mysql> use student2;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_student2 |
+-----+
| s993316 |
| s993332 |
+-----+
2 rows in set (0.00 sec)

mysql> █
```

Now you can practice the SQL queries in the
command line of MySQL DBMS!

Linux Basic Commands

- **pwd**
 - print working directory
- **ls**
 - used to view the contents of a directory.
- **cd**
 - to navigate through the Linux files and directories. E.g.,
cd file, cd ..
- **mkdir**
 - used to create a directory. E.g., mkdir file.
- **rm**
 - to move files. E.g., rm -rf file.

Reference

- 鳥哥的 Linux 私房菜:
https://linux.vbird.org/linux_basic/centos7/