- Connect to Lab231
- Basic commands in Unix/Linux
- File editors
- FTP

Outline

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Lab 231 workstation list

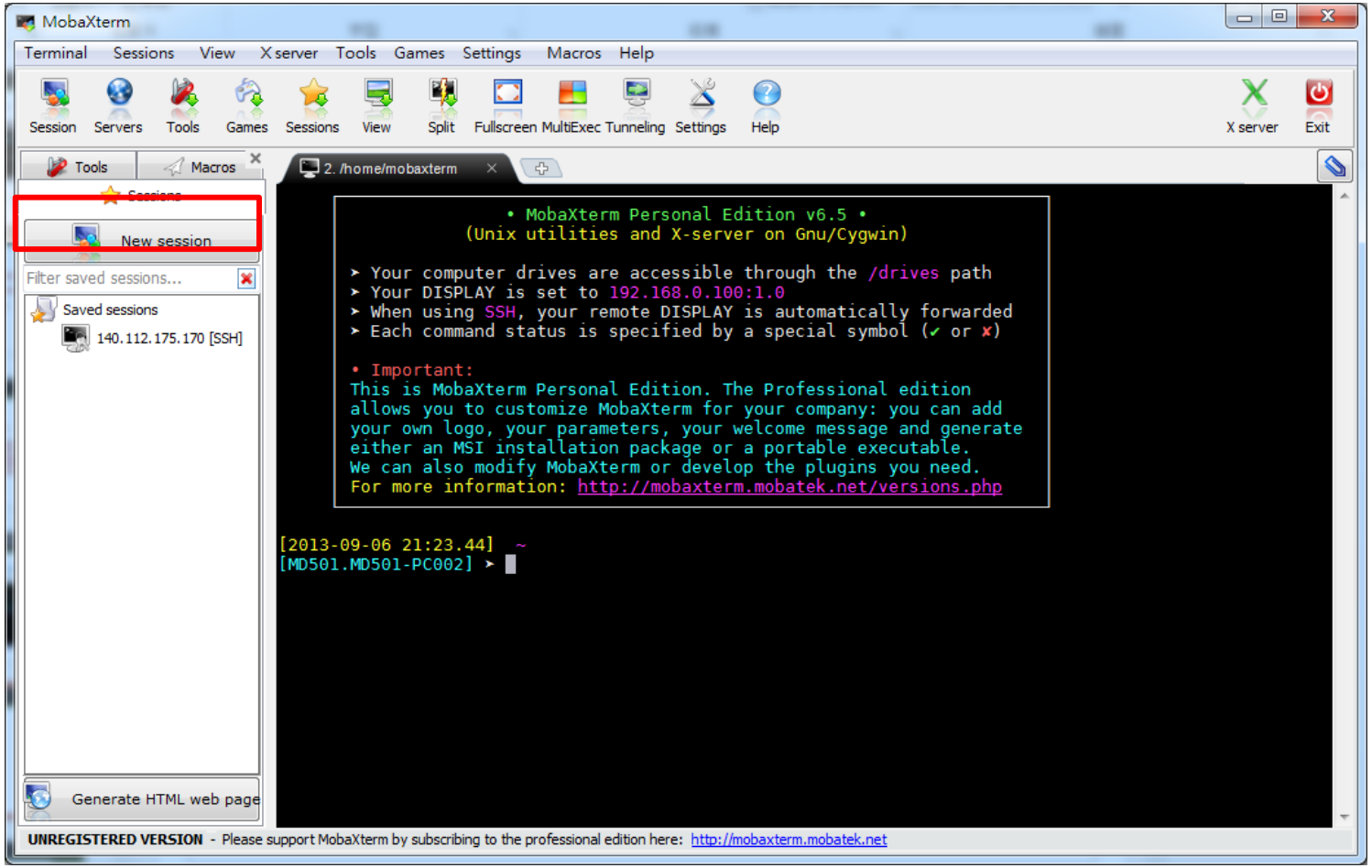
- http://cad.ee.ntu.edu.tw

* IP	Name	Type	CPU	CPU Clock	Memory	OS
59	cad16	IBM X3500	Intel Xeon 64	1.2 GHz * 24	40 GB	CentOS 6.10
60	cad17	IBM x260	Intel Xeon 64	1.2 GHz * 24	32 GB	CentOS 6.10
64	cad21	DELL R620	Intel Xeon 64	2 GHz * 32	48 GB	CentOS 6.9
66	cad23	DELL R620	Intel Xeon 64	2 GHz * 16	96 GB	CentOS 6.9
70	cad27	DELL R640	Intel Xeon Silver 4110	2.1 GHz * 32	128 GB	CentOS 6.10
~~71~~	~~cad28~~	~~IBM e336~~	~~Intel Xeon 64~~	~~3.2 GHz~~	~~5 GB~~	
72	cad29	Dell R730	Intel Xeon 64	2.3GHz * 40	336 GB	CentOS 6.10
73	cad30		Intel Xeon 64	1.6GHz * 16	12 GB	CentOS 6.9
74	cad31	DELL R620	Intel Xeon 64	2.2 GHz * 32	48 GB	CentOS 6.9
~~76~~	~~cad33~~	~~IBM X3400~~	~~Intel Xeon 64~~	~~2.4 GHz * 16~~	~~100 GB~~	~~CentOS 6.9~~
77	cad34	IBM X3650	Intel Xeon 64	1.6 GHz * 16	16 GB	CentOS 6.9
81	cad38	IBM X3650	Intel Xeon 64	2.4 GHz * 16	96 GB	RHEL 5
82	cad39	IBM X3650	Intel Xeon 64	1.2 GHz * 24	40 GB	CentOS 6.9
83	cad40	IBM X3550	Intel Xeon 64	2 GHz * 24	132 GB	CentOS 6.9
84	cad41	IBM X3550	Intel Xeon 64	2.1 GHz * 24	132 GB	CentOS 6
85	cad42	IBM X3500	Intel Xeon 64	2 GHz * 24	32 GB	CentOS 7
86	cad43	IBM X3550	Intel Xeon 64	2.6GHz * 32	148 GB	CentOS 5.11

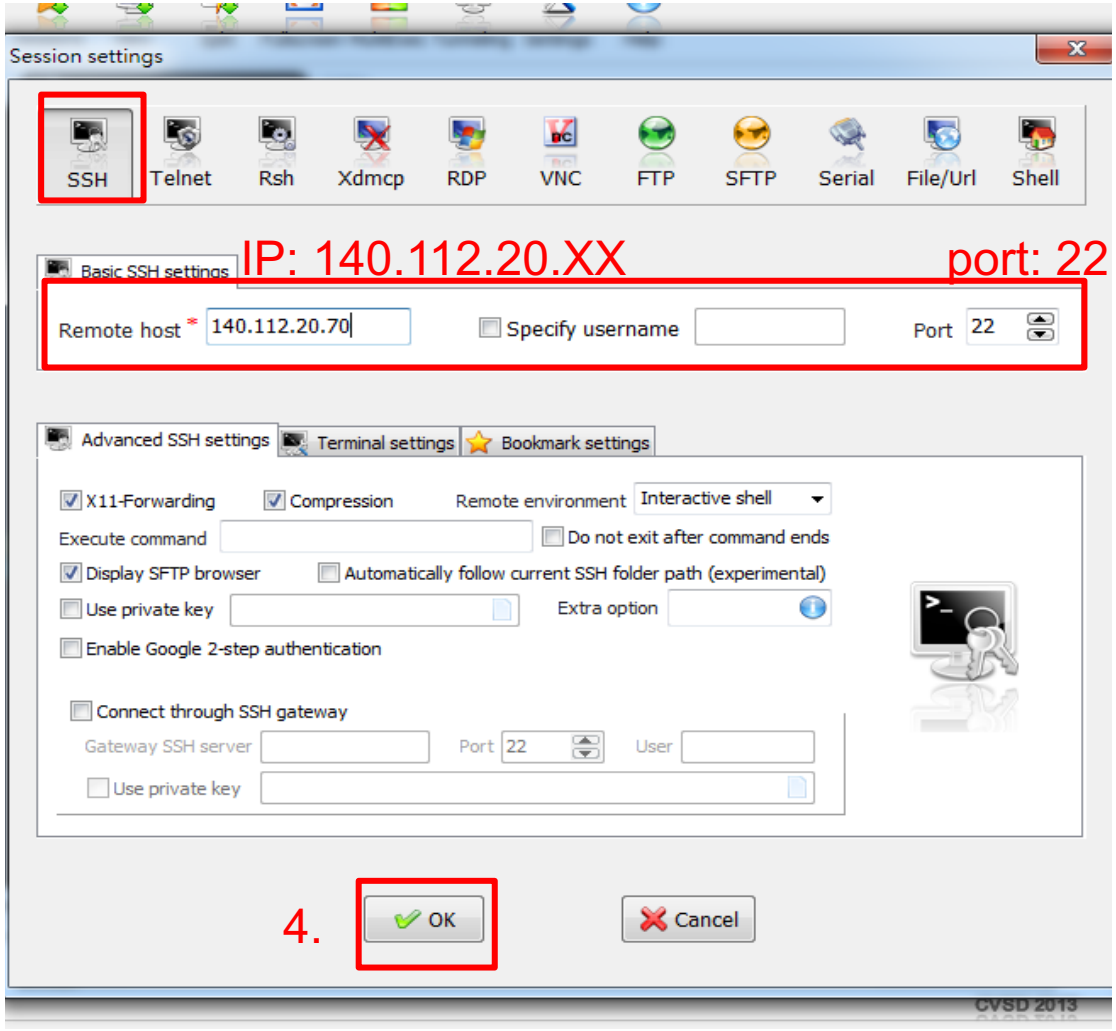
MobaXterm (1/4)

- MobaXterm = SFTP + SSH + X-server
- New Session

1.

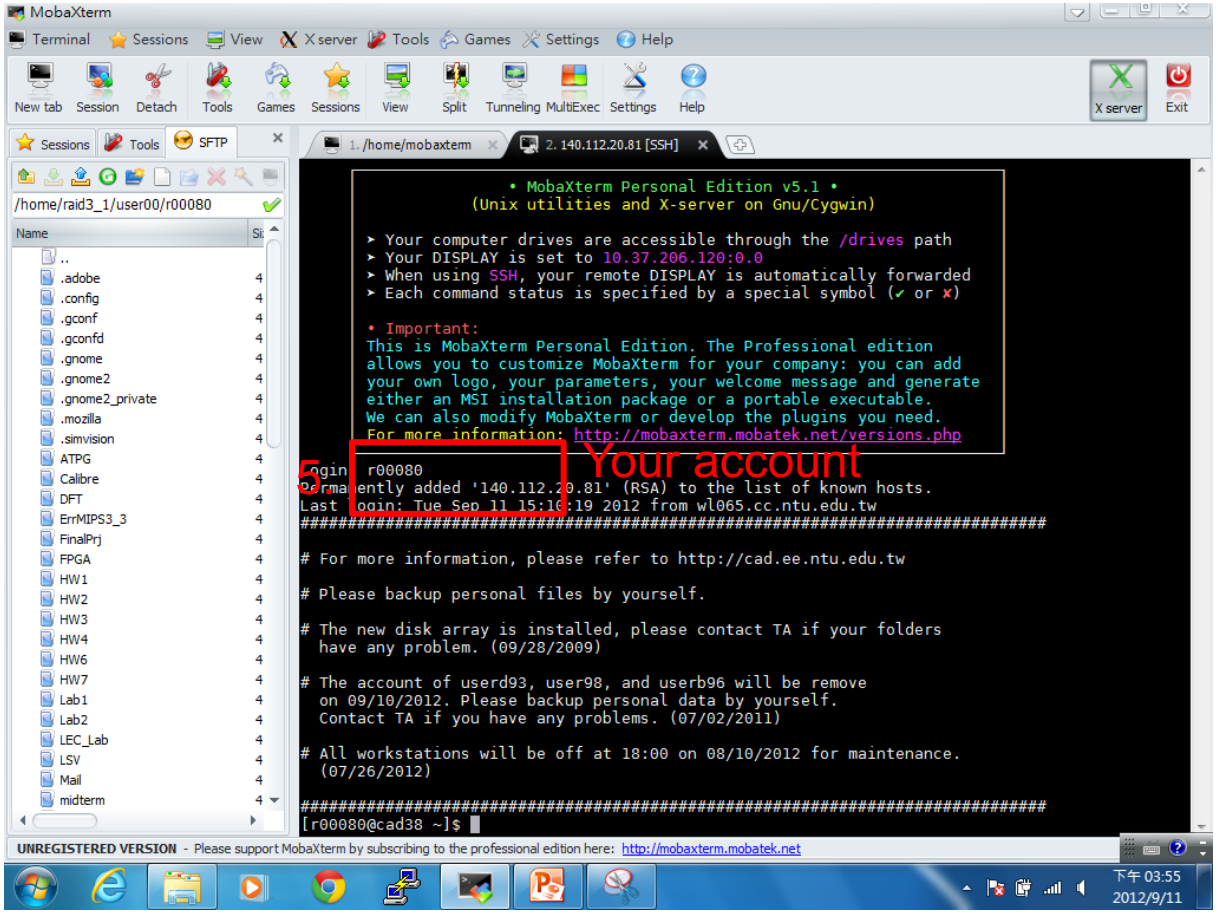


MobaXterm (2/4)



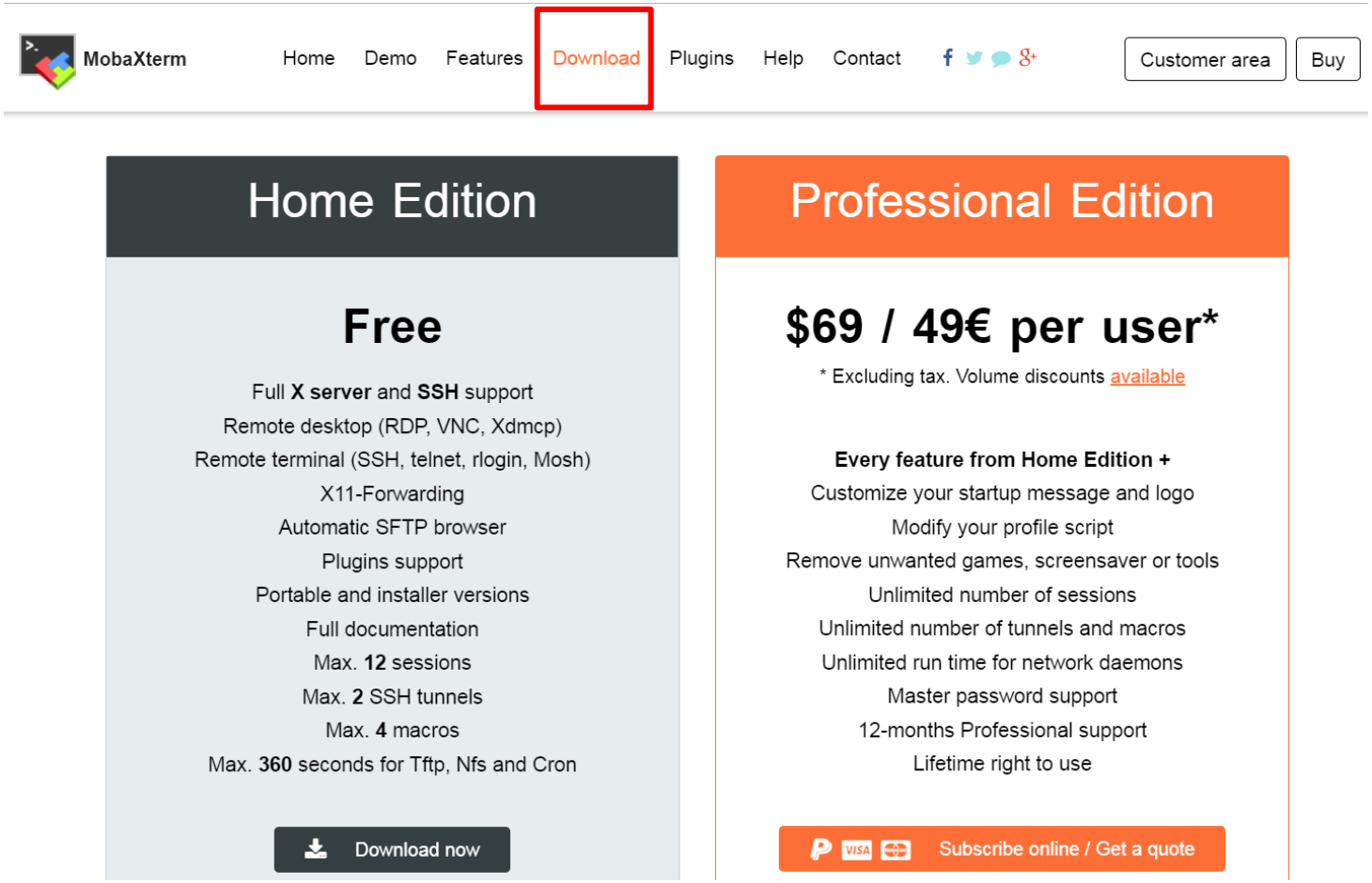
MobaXterm (3/4)

- or enter " *ssh b02000@140.112.20.70* " to connect



MobaXterm (4/4)

- Download :
  - http://mobaxterm.mobatek.net/



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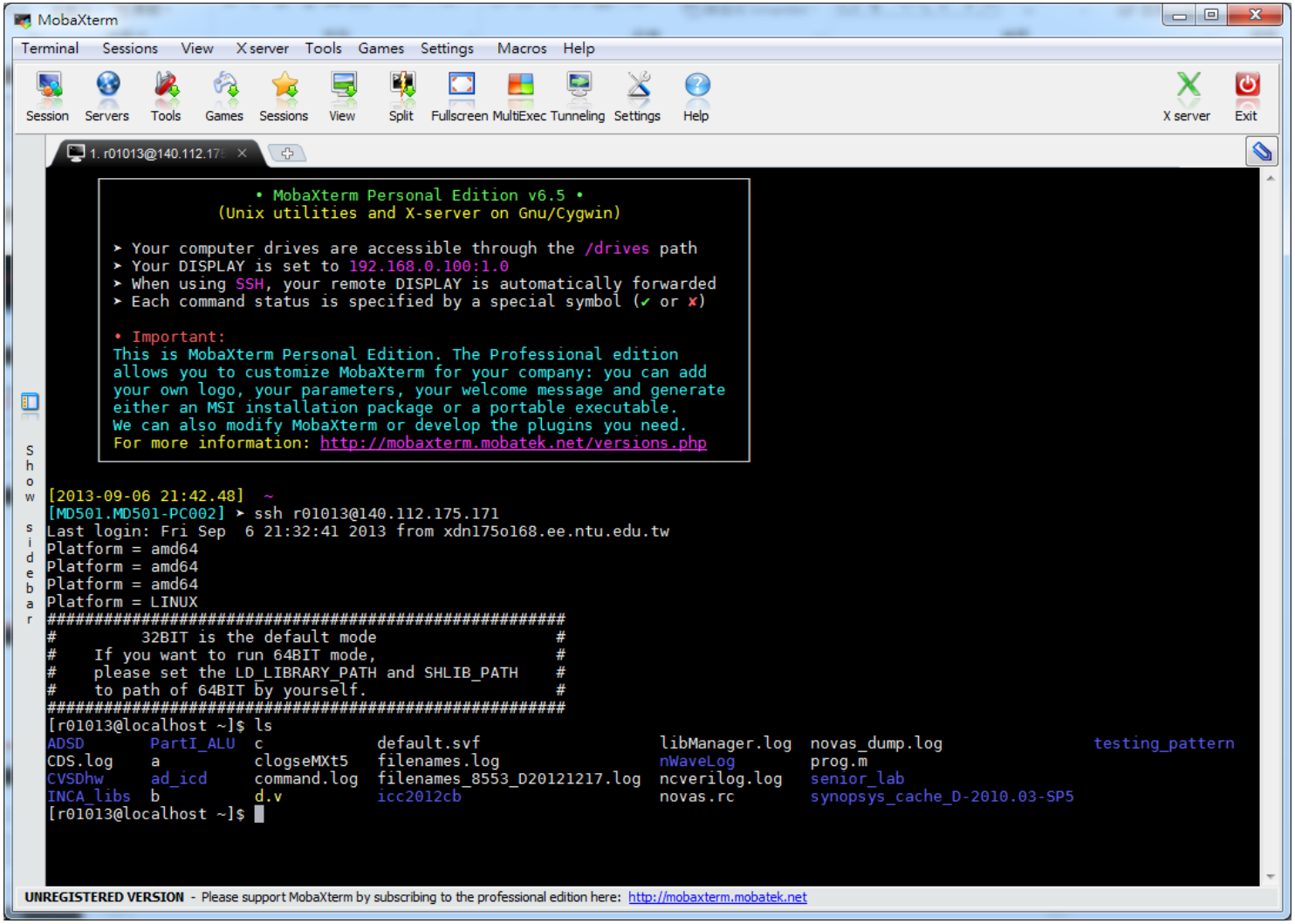
Environment



Basic commands (1/5)

- Files
  - ls : lists your files
  - ls -l : lists your files in long format
  - ls -a : lists all files, including the ones whose filename beginning in a dot
  - cp *src-filename dest-filename* : copy files
  - mv *src-filename dest-filename* : move/rename files
  - rm *filename* : delete this file
  - more *filename* : show the content of the file
  - less *filename* : show the content of the file

Basic commands (2/5)

- Directories
  - mkdir *dirname* : make a new directory
  - cd *dirname* : change directory
  - cd .. : go up one directory level from here
  - cd ~ : go to user's home directory
  - rm -rf *dirname* : remove a directory
  - mv *src-dirname dest-dirname* : move/rename directories

Basic commands (3/5)

- Compress
  - tar cvf *filename.tar filename/dirname*
  - tar czvf *filename.tar.gz filename/dirname*

- Decompress
  - tar xvf *filename.tar*
  - tar xzvf *filename.tar.gz*

Basic commands (4/5)

- Processes
  - ctrl +c : kill foreground process
  - ps : report processes and their pid numbers
  - kill *pid#*: kill the process with the *pid#*
- Logout
  - exit
- More options about command
  - man *command-name*: display on-line manual pages

Basic commands (5/5)

- Reference
  - Chinese
    - http://boson4.phys.tku.edu.tw/UNIX/Unix%20Command/index_basic.htm
    - http://www.lib.cgu.edu.tw/instruction/basiccmd.html
  - English
    - http://mally.stanford.edu/~sr/computing/basic-unix.html
    - http://www.math.utah.edu/lab/unix/unix-commands.html
    - http://www.computerhope.com/unix/overview.htm

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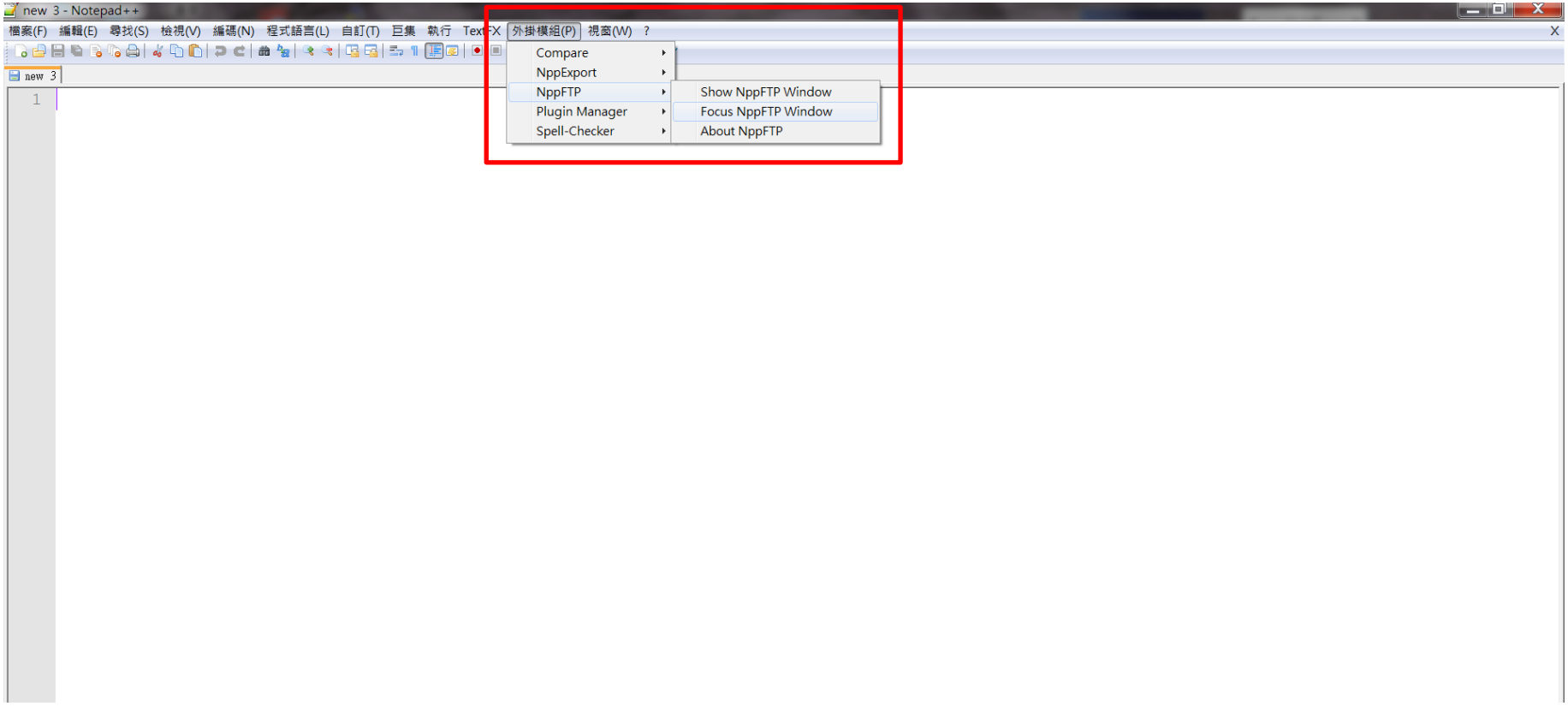
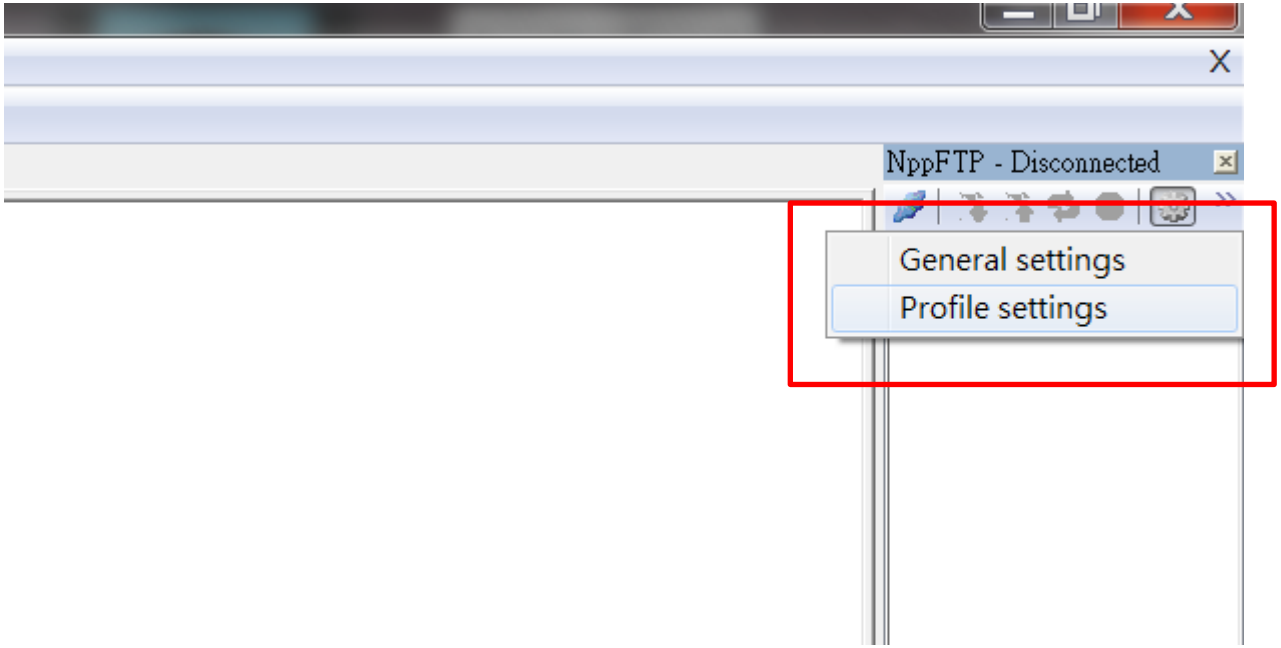
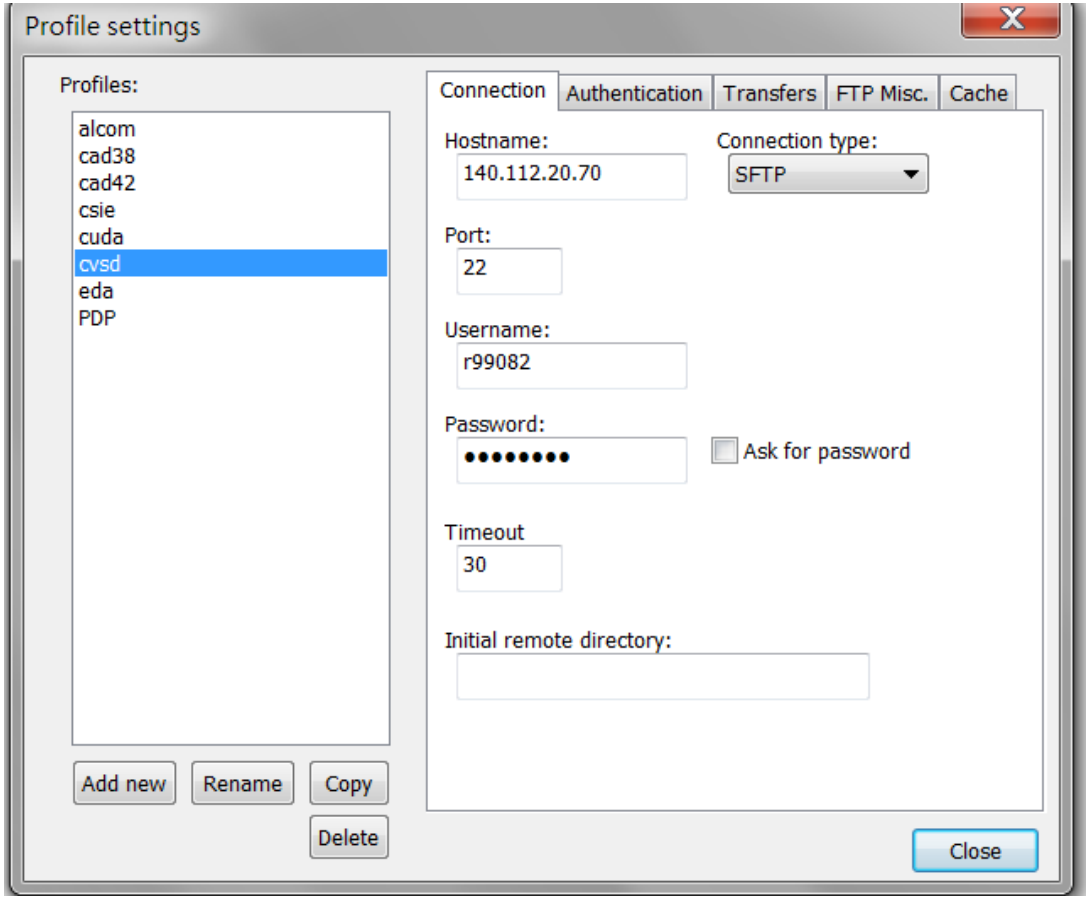
Notepad++ (1/4)


new 3 - Notepad++
檔案(F) 編輯(E) 尋找(S) 檢視(V) 編碼(N) 程式語言(L) 自訂(T) 巨集 執行 TextFX 外掛模組(P) 視窗(W) ?
new 3
1
Compare
NppExport
NppFTP
Plugin Manager
Spell-Checker
Show NppFTP Window
Focus NppFTP Window
About NppFTP

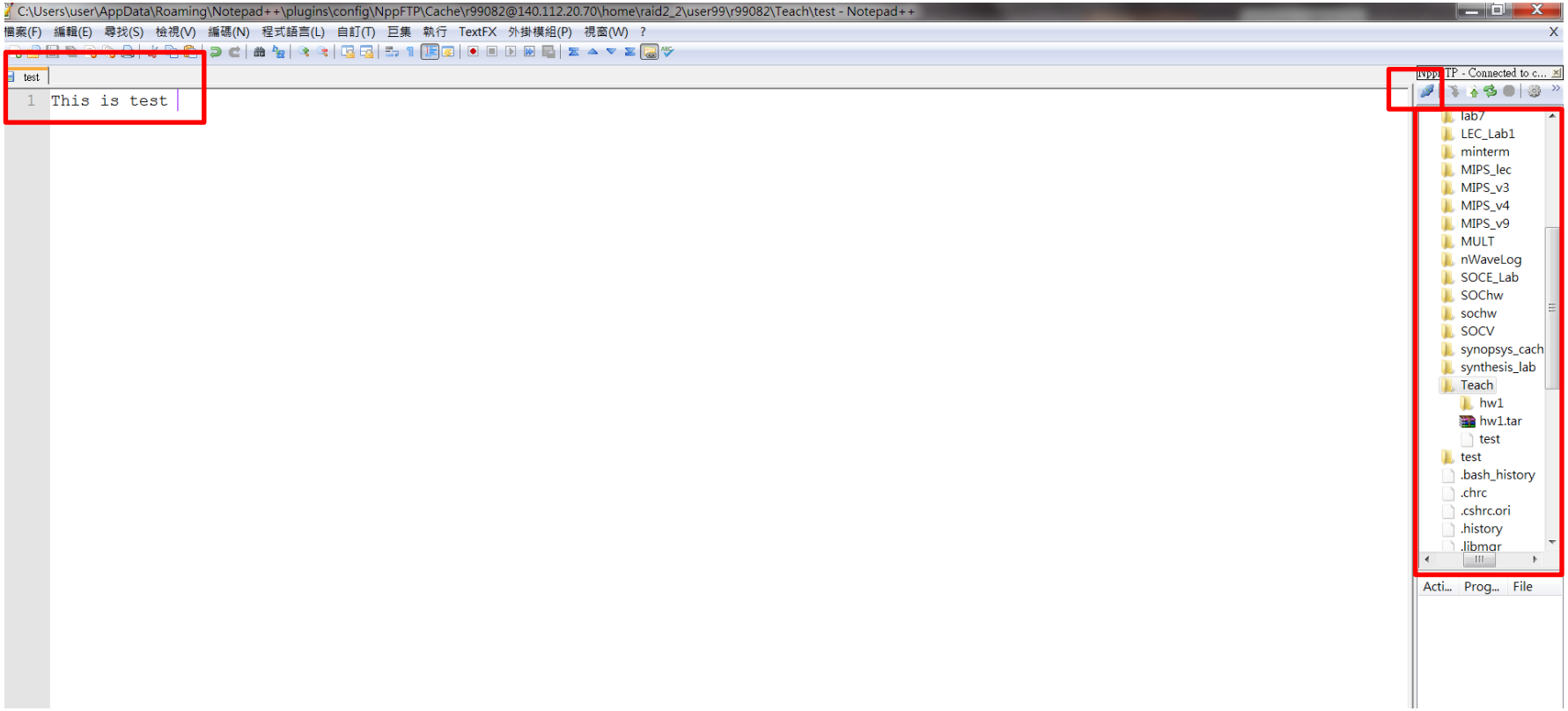
Notepad++ (2/4)



Notepad++ (3/4)


Profile settings
Profiles:
alcom
cad38
cad42
csie
cuda
cvsd
eda
PDP
Add new
Rename
Copy
Delete
Connection
Authentication
Transfers
FTP Misc.
Cache
Hostname:
140.112.20.70
Connection type:
SFTP
Port:
22
Username:
r99082
Password:
Ask for password
Timeout
30
Initial remote directory:
Close

Notepad++ (4/4)


C:\Users\user\AppData\Roaming\Notepad++\plugins\config\NppFTP\Cache\r99082@140.112.20.70\home\raid2_2\user99\r99082\Teach\test - Notepad++
檔案(F) 編輯(E) 尋找(S) 檢視(V) 編碼(N) 程式語言(L) 自訂(T) 巨集 執行 TextFX 外掛模組(P) 視窗(W) ?
test
1 This is test
NPP TP - Connected to c...
lab7
LEC_Lab1
minterm
MIPS_lec
MIPS_v3
MIPS_v4
MIPS_v9
MULT
nWaveLog
SOCE_Lab
SOChw
sochw
SOCV
synopsys_cach
synthesis_lab
Teach
hw1
hw1.tar
test
test
.bash_history
.chrc
.cshrc.ori
.history
.libmgr
Acti... Prog... File

Vim (1/5)

- Vim (Vi IMproved)
  - An extended version of vi editor
  - Additional features designed to be helpful in editing program source code
  - Free and open source software

Vim (2/5)

- Three major modes
  - common mode (c-mode)
  - Insert mode (i-mode)
  - Edit mode (e-mode)

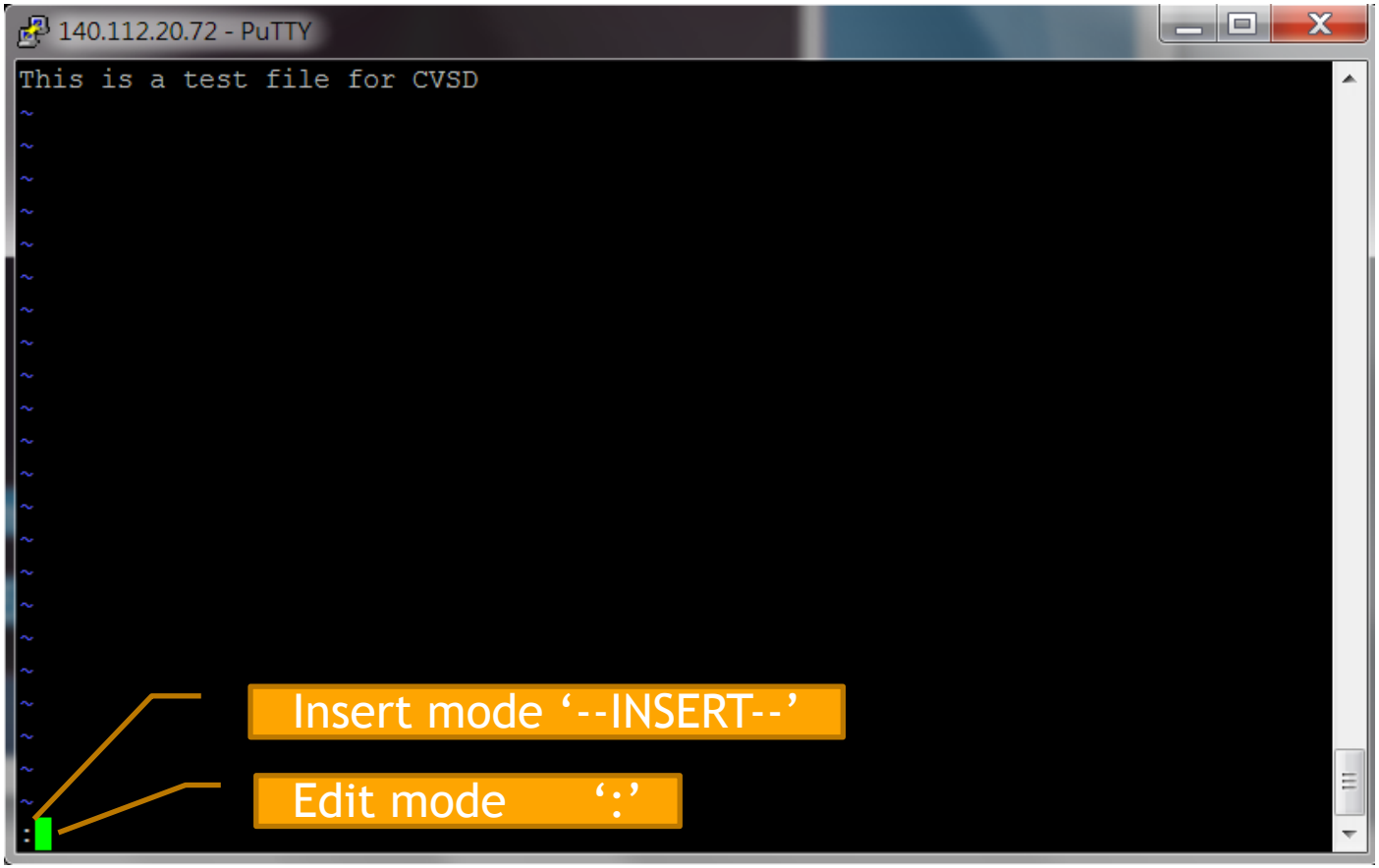
- Change modes
  - i-mode <--------- c-mode ---------> e-mode

    (key: ‘i’) (key: ‘:’)
  - i-mode ----------> c-mode <--------- e-mode

    (key: esc) (key: esc)

Vim (3/5)

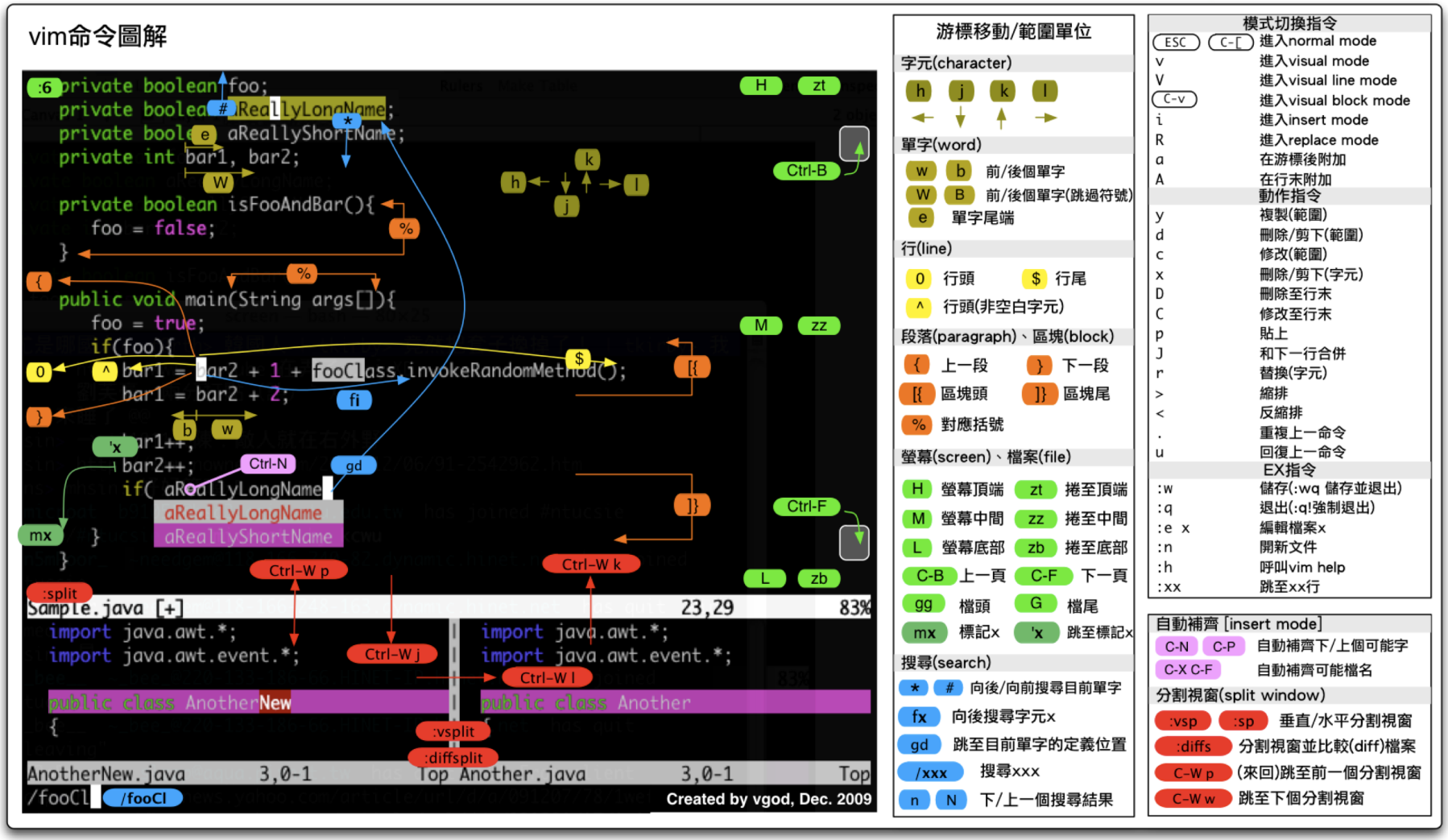
- vim test.txt



Vim (4/5)

- Basic command in c-mode
  - Key ‘dd’ : delete the whole line
  - Key ‘u’ : undo
  - Key ‘i’ : enter insert-mode
  - Key ‘:w’ + enter : save a document
  - Key ‘:q’ + enter : quit without saving
  - Key ‘:wq’ + enter : save and quit at the same time
  - Key ‘:q!’ + enter : discard changes and quit
  - Key ‘:w *new_filename*’ + enter : save as new-filename

Vim (5/5)



- Reference : http://blog.vgod.tw/2009/12/08/vim-cheat-sheet-for-programmers/

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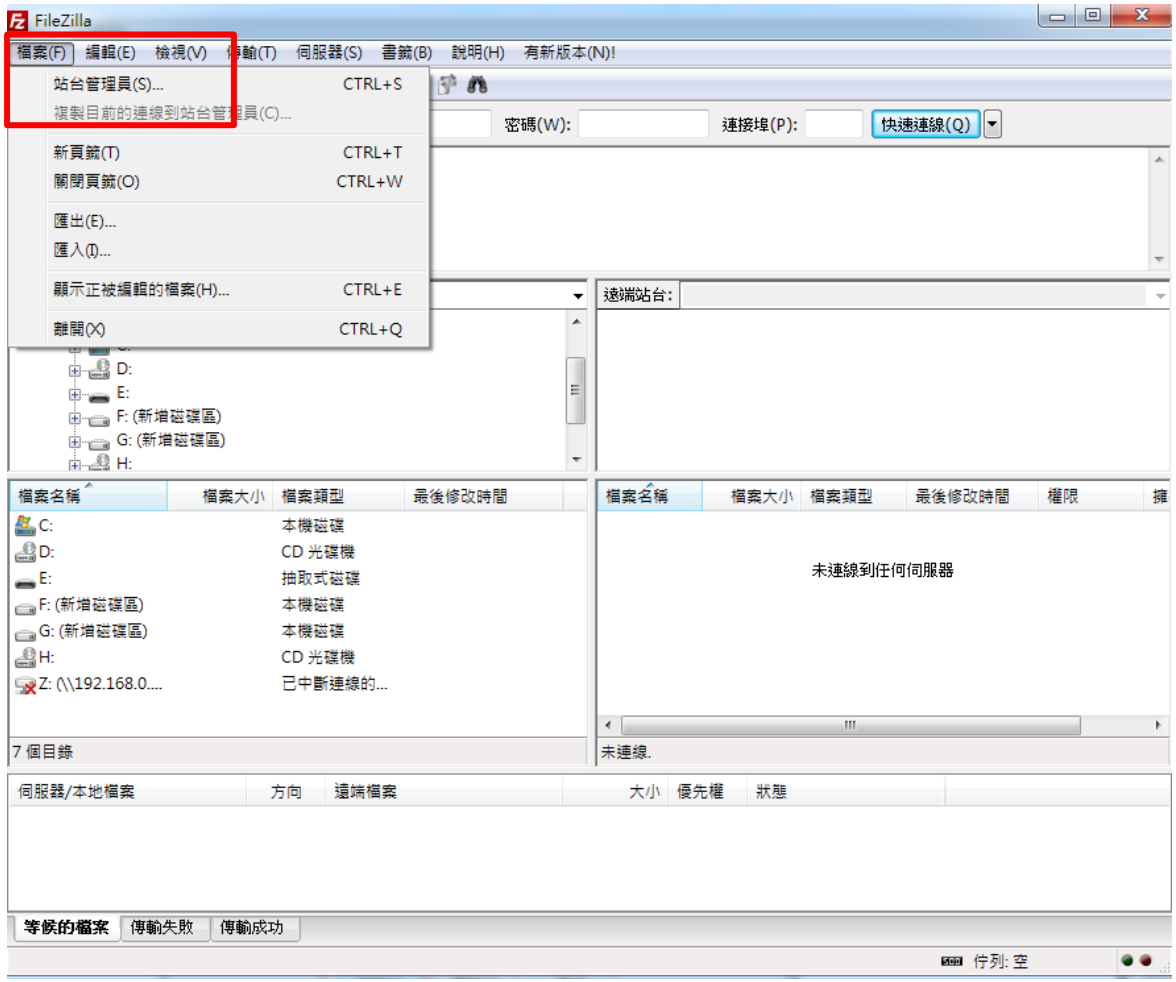
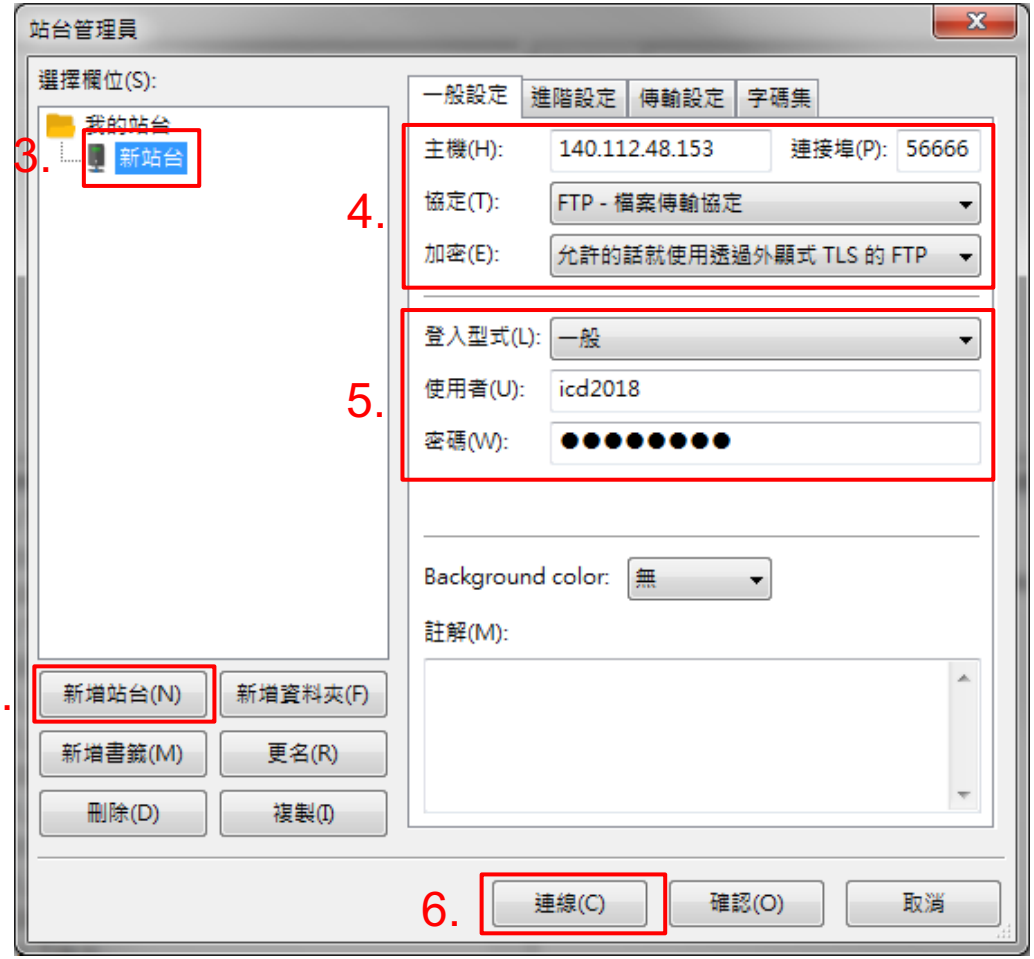
FileZilla (1/5)

- Choose *檔案* → *站台管理員*

1.



FileZilla (2/5)

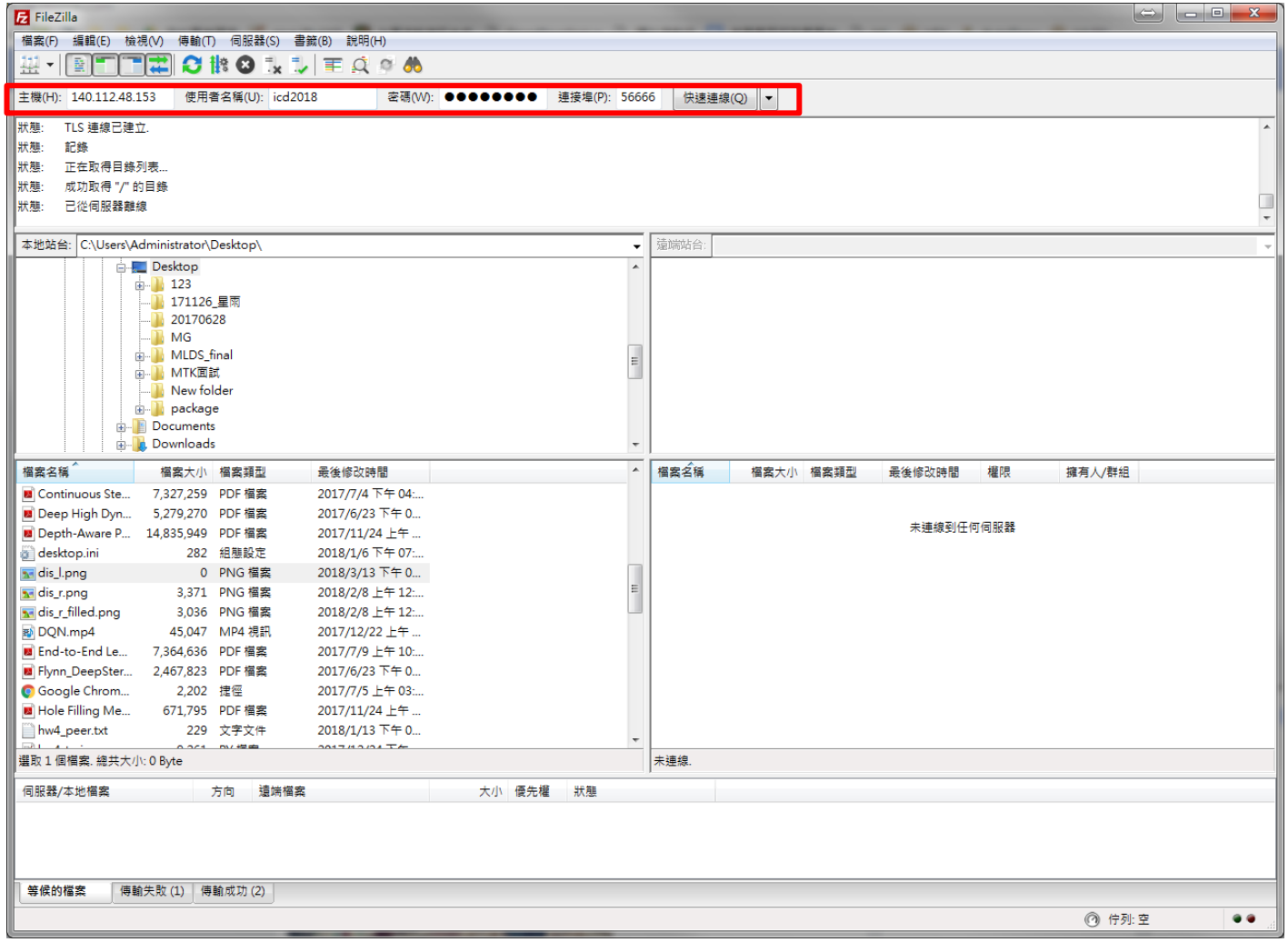


IP
port

User name
password

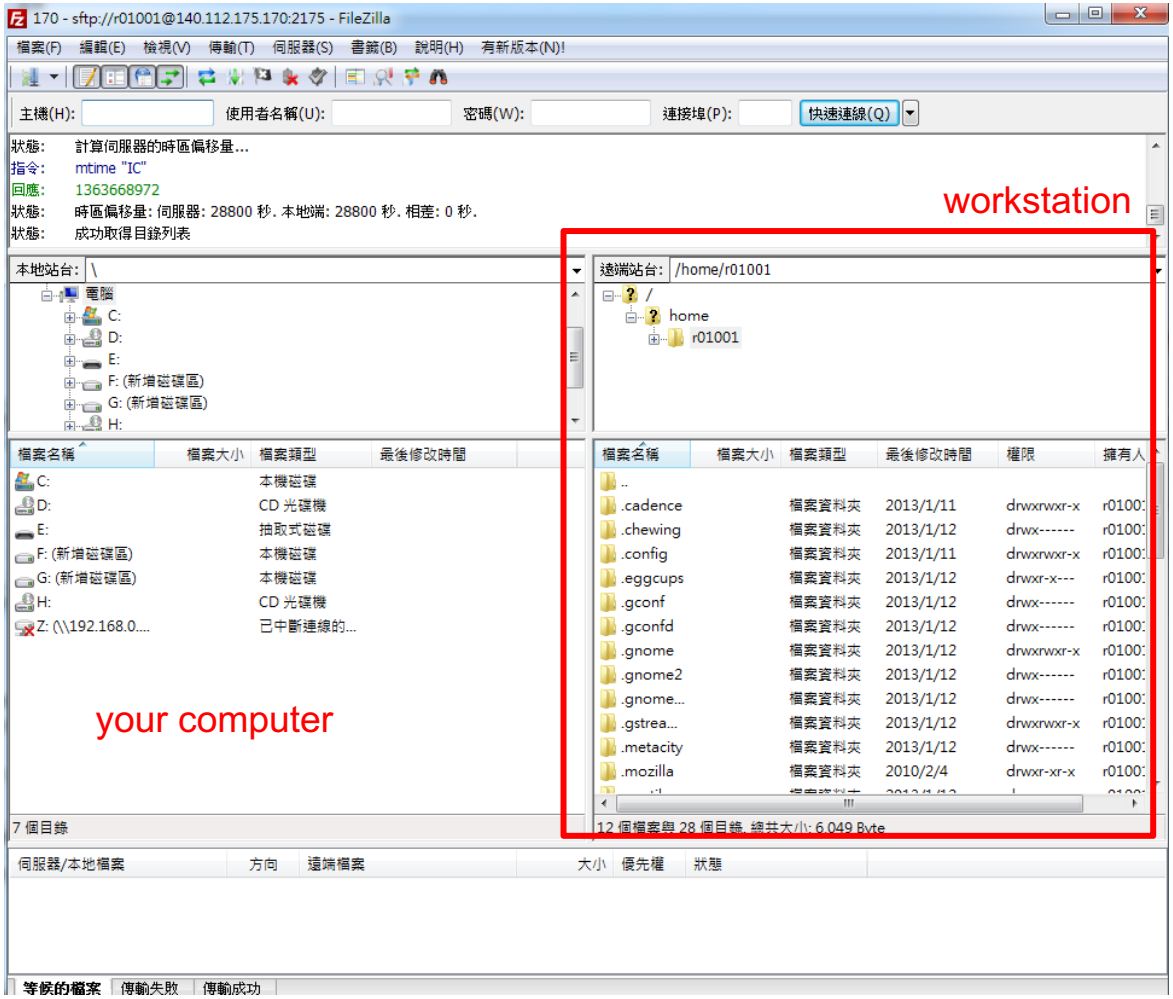
FileZilla (3/5)

Fast login



FileZilla (4/5)

- You will see your file in the window



FileZilla (5/5)

- Download :

  http://sourceforge.net/projects/filezilla/files/