How to use Linux Server of CSE by Windows

Prestep

- If you are out of campus,
 - Connect CSE VPN

Prestep: Connect CSE VPN

- Install OpenVPN Connect Client
- Windows & macOS: use browser and download the client from
 - <u>https://openvpn.cse.cuhk.edu.hk</u>
- Android & iOS: Install OpenVPN Connect client (by OpenVPN Inc) from App Store / Play Store
 - <u>Google Play Store</u>
 - <u>Apple App Store</u>
- Linux: Connecting to Access Server with Linux

Connect CSE VPN

Import Profiles

- Execute OpenVPN Connect Client
- Click \oplus (+) button
- Enter URL: https://openvpn.cse.cuhk.edu.hk
- click NEXT
- Enter your CSE UNIX Account and Pasword
- click IMPORT

Profiles DISCONNECTED OpenVPN Profile openvpn.cse.cuhk.edu.hk/Dyna mic [bundled]	
DISCONNECTED OpenVPN Profile openvpn.cse.cuhk.edu.hk/Dyna mic [bundled]	0
OpenVPN Profile openvpn.cse.cuhk.edu.hk/Dyna mic [bundled]	<u>_</u>
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Connect CSE VPN

Connect to VPN Server

Execute OpenVPN Connect
Select the profile to connect
Enter your CSE Unix Account and Password
Click OK



Connect CSE VPN

Configuration

Access Server URL	https://openvpn.cse.cuhk.edu.hk	
Username	CSE UNIX username	
Password	CSE UNIX password	

Download Putty

- Firstly, we should download Putty, which is used as a tool for our connection.
 - The source website is as follow (As Fig. 1):
 - <u>http://www.chiark.greenend.org.uk/~sgtatham/putty/d</u> <u>ownload.html</u>

Download Putty

- -> C 🗅 www.chiark.greenend.org.uk/~sgtatham/putty/download.html

PuTTY Download Page

Home | Licence | FAQ | Docs | Download | Keys | Links Mirrors | Updates | Feedback | Changes | Wishlist | Team

Here are the PuTTY files themselves:

- PuTTY (the SSH and Telnet client itself)
- PSCP (an SCP client, i.e. command-line secure file copy)
- PSFTP (an SFTP client, i.e. general file transfer sessions much like FTP)
- PuTTYtel (a Telnet-only client)
- Plink (a command-line interface to the PuTTY back ends)
- Pageant (an SSH authentication agent for PuTTY, PSCP, PSFTP, and Plink)
- PuTTYgen (an RSA and DSA key generation utility).

LEGAL WARNING: Use of PuTTY, PSCP, PSFTP and Plink is illegal in countries where encryption is outlawed. We believe it is legal to use PuTTY, PSCP, PSFTP and Plink in England and Wales and in many other countries, but we are not lawyers, and so if in doubt you should seek legal advice before downloading it. You may find useful information at <u>cryptolaw.org</u>, which collects information on cryptography laws in many countries, but we can't vouch for its correctness.

Use of the Telnet-only binary (PuTTYtel) is unrestricted by any cryptography laws.

There are cryptographic signatures available for all the files we offer below. We also supply cryptographically signed lists of checksums. To download our public keys and find out more about our signature policy, visit the <u>Keys page</u>. If you need a Windows program to compute MD5 checksums, you could try this one at <u>pc-tools.net</u>. (This MD5 program is also cryptographically signed by its author.)

Binaries

The latest release version (beta 0.66)

This will generally be a version we think is reasonably likely to work well. If you have a problem with the release version, it might be worth trying out the latest development snapshot (below) to see if we've already fixed the bug, before reporting it.

For Windows on Intel x86

PuTTY:	putty.exe	(or by FTP)	<u>(signature)</u>
PuTTYtel:	puttytel.exe	(or by FTP)	<u>(signature)</u>
PSCP:	pscp. exe	(or by FTP)	<u>(signature)</u>
PSFTP:	<u>psftp.exe</u>	(or by FTP)	<u>(signature)</u>
Plink:	plink.exe	<u>(or by FTP)</u>	<u>(signature)</u>
Pageant:	pageant.exe	(or by FTP)	<u>(signature)</u>
PuTTYgen:	puttygen exe	(or by FTP)	<u>(signature)</u>

Fig. 1 The Putty Source Website

- Running the Putty.exe, we can get the interface of Putty as Fig. 2.
- We need to find a Linux Server to connect.

	name of
	address
RuTTY Configuration	of server
Category:	
 Session Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Connection Data Proxy Telnet Rlogin SSH Serial 	Basic options for w PuTTY session Specify the destination you want to connect to Host Name (or IP address) pit 2 2 Connection type: Rogin I all series Raw Telnet Rlogin I all series Load, save or delete a stored session Saved Sessions Default Settings Load Save Delete Close window on exit: I all series Always Never Only on clean exit
About	<u>O</u> pen <u>C</u> ancel

Fill the

Fig. 2 Interface of Putty

- We can get the information of servers from the website of CSE (Fig. 3).
 - Website: <u>http://corner.cse.cuhk.edu.hk/fac/unix.html</u>

Hostname	No. of Processors	RAM	OS	Login	Qty.	Domain
linux1	4	9GB	64bit Debian 6.0.6	Remote login using SSH only	1	Teaching
linux2-4	4	3GB	32bit Debian 6.0.6	Remote login using SSH only	3	Teaching
linux5	4	9GB	64bit Debian 6.0.6	Remote login using SSH only	1	Teaching
linux6-9	5	10GB	64bit Debian 6.0.6	Remote login using SSH only	4	Teaching
linux10	1	3GB	64bit Debian 6.0.6	Remote login using SSH only	1	Teaching
linux11-13	1	7GB	64bit Debian 6.0.6	Remote login using SSH only	3	Teaching
linux14-15	15	30GB	64bit Debian 6.0.6	Remote login using SSH only	2	Teaching
linux16-17	15	45GB	64bit Debian 6.0.6	Remote login using SSH only	2	Teaching

+ Linux Workstations

Fig. 3 Available servers

- Select one of available server, and put its Hostname into the input box of putty interface named "Host Name(or IP Address)".
 - In this PPT, We select "linux5" for example.

Hostname	No. of Processors	RAM	OS	Login	Qty.	Domain
linux1	4	9GB	64bit Debian 6.0.6	Remote login using SSH only	1	Teaching
linux2-4	4	3GB	32bit Debian 6.0.6	Remote login using SSH only	3	Teaching
linux5	4	9GB	64bit Debian 6.0.6	Remote login using SSH only	1	Teaching
linux6-9	5	10GB	64bit Debian 6.0.6	Remote login using SSH only	4	Teaching
linux10	1	3GB	64bit Debian 6.0.6	Remote login using SSH only	1	Teaching
linux11-13	1	7GB	64bit Debian 6.0.6	Remote login using SSH only	3	Teaching
linux14-15	15	30GB	64bit Debian 6.0.6	Remote login using SSH only	2	Teaching
linux16-17	15	45GB	64bit Debian 6.0.6	Remote login using SSH only	2	Teaching

+ Linux Workstations

Fig. 3 Available servers

 Put the "linux15" into input box "Host Name(or IP)". And then click "open" to start connection.



Fig. 4 Input the Host Name

Login the Linux Server

• A console will present and please input your Username and Password. And then you can start your homework on the

Server.



Fig. 5 Login the Server