

CA Project 1 Guide

How to Connect & Move Files ..

(SSH, SCP to In-Ui-Ye-Ji Cluster)

SSH in Window (Connect)

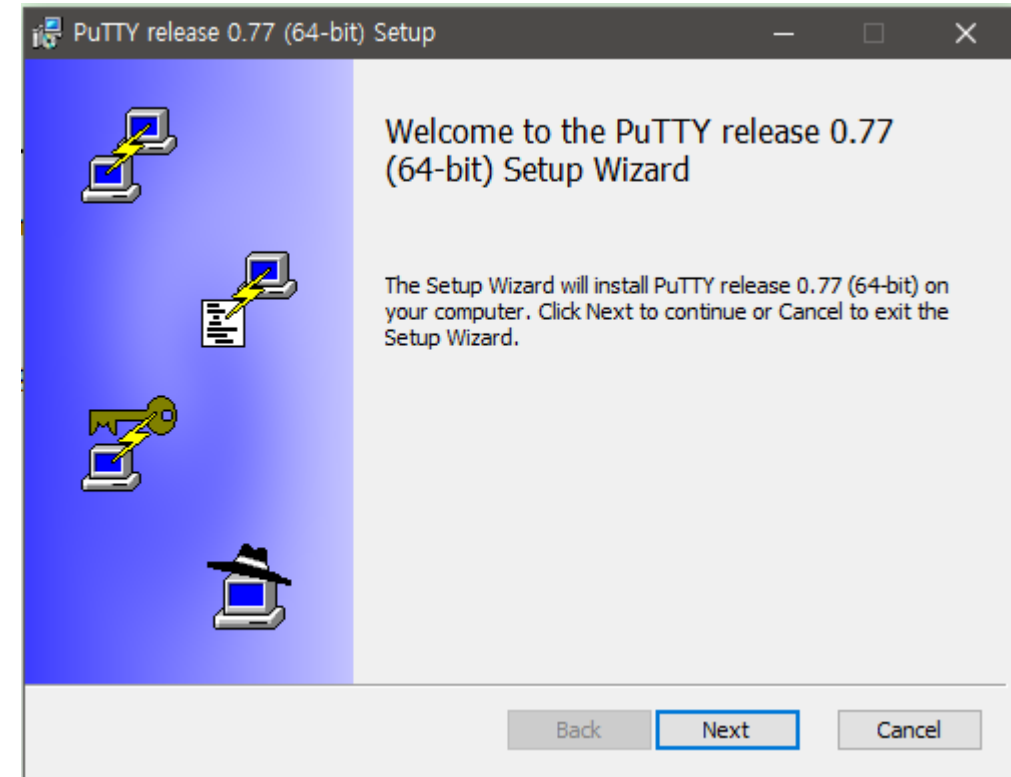
Package files

You probably want one of these. They include versions of all the PuTTY utilities (except the WinSCP client). (Not sure whether you want the 32-bit or the 64-bit version? Read the [FAQ entry](#).)

We also publish the latest PuTTY installers for all Windows architectures as a free-of-charge service.

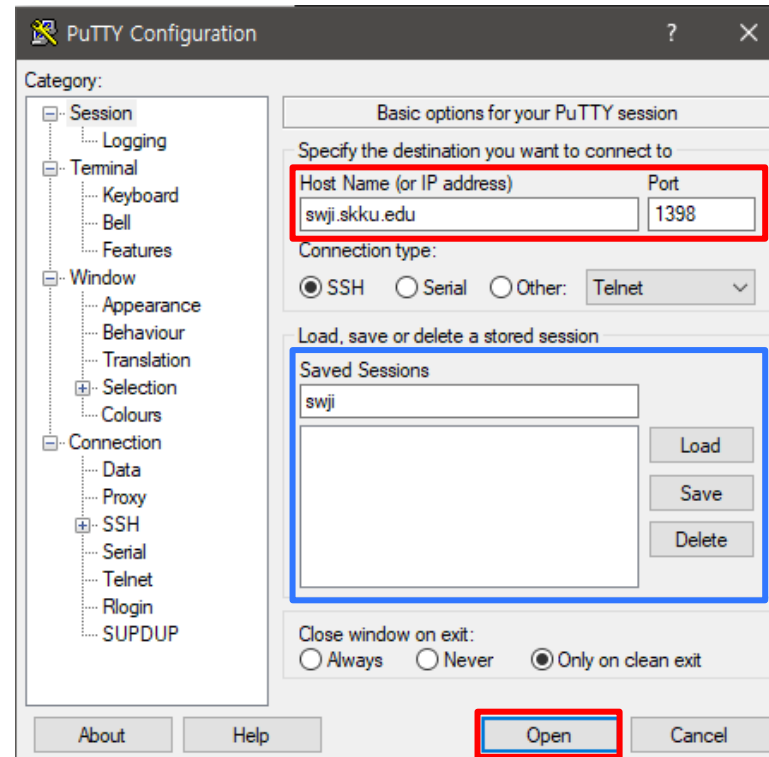
MSI ('Windows Installer')

64-bit x86:	putty-64bit-0.77-installer.msi	(signature)
64-bit Arm:	putty-arm64-0.77-installer.msi	(signature)
32-bit x86:	putty-0.77-installer.msi	(signature)



- <https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>
- Access the above site address and download the putty installation file
- Follow the Putty installation process

SSH in Window (Connect) (Cont.)



- After executing putty, put the address and port number like the red box above
- Click 'Open' button
- If you put your name in the saved session and save it, you can load the information without entering the address and port next time.

SSH in Window (Connect) (Cont.)



The screenshot shows a PuTTY terminal window titled "swji.skku.edu - PuTTY". The terminal output is as follows:

```
login as: 2015313102
Pre-authentication banner message from server:
Welcome To

[ASCII Art: A stylized 'SKKU' logo made of characters]

Cluster

For any account-related question,
please send an e-mail to inuiyeji-skku@googlegroups.com

End of banner message from server
2015313102@swji.skku.edu's password: █
```

- Enter your Student ID and password to log in
- (ex: StudentID : 2022123456 / Default password : pw22123456)

SSH in Window (Connect) (Cont.)

```
2015313102@swji: ~  
Memory usage: 7% IP address for enol: 115.145.173.240  
Swap usage: 0%  
  
=> There are 2 zombie processes.  
  
* Super-optimized for small spaces - read how we shrank the memory  
  footprint of MicroK8s to make it the smallest full K8s around.  
  
  https://ubuntu.com/blog/microk8s-memory-optimisation  
  
* Canonical Livepatch is available for installation.  
  - Reduce system reboots and improve kernel security. Activate at:  
    https://ubuntu.com/livepatch  
  
120 packages can be updated.  
2 updates are security updates.  
  
New release '20.04.5 LTS' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
*** System restart required ***  
Last login: Tue Sep 20 16:49:44 2022 from 115.145.178.54  
2015313102@swji:~$
```

- Successfully connected to In-UI-Ye-Ji cluster

SSH in Linux (Connect)

```
yt@baldur:~/Desktop$ ssh swji.skku.edu -p 1398 -l 2015313102
```

Welcome To

Cluster

For any account-related question,
please send an e-mail to inuiyeji-skku@googlegroups.com

2015313102@swji.skku.edu's password:

- Enter a “ssh swji.skku.edu -p 1398 -l StudentId” and your password on linux terminal.
- (ex: StudentID : 2022123456 / Default password : pw22123456)

SSH in Linux (Connect) (Cont.)

```
* Canonical Livepatch is available for installation.
- Reduce system reboots and improve kernel security. Activate at:
  https://ubuntu.com/livepatch

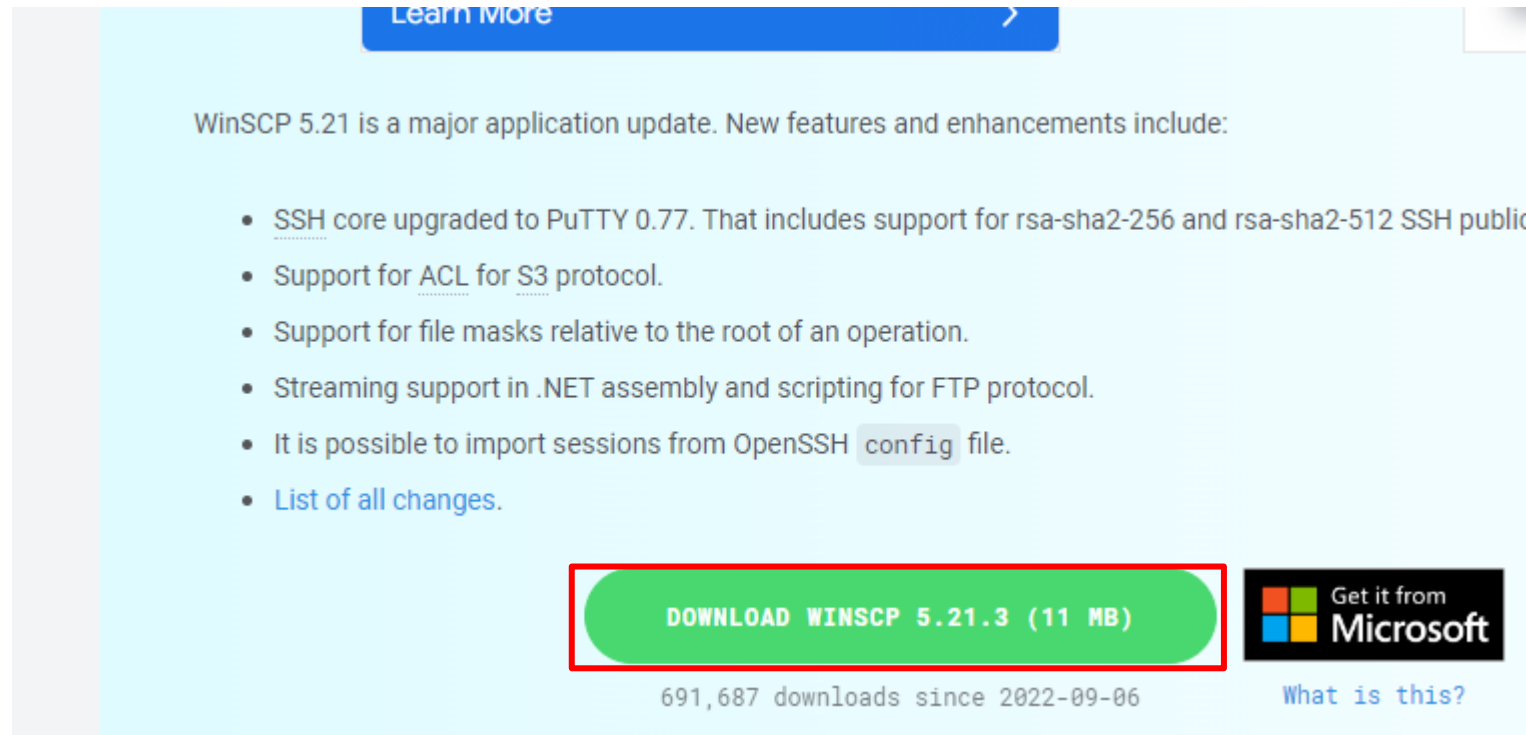
120 packages can be updated.
2 updates are security updates.

New release '20.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

*** System restart required ***
Last login: Fri Sep 23 17:39:36 2022 from 115.145.178.54
2015313102@swji:~$
```

- Successfully connected to In-UI-Ye-Ji cluster

WinSCP in Window (Move Files)



The screenshot shows the WinSCP website's download section. At the top, there is a blue button labeled 'Learn More' with a right-pointing arrow. Below it, a text block states: 'WinSCP 5.21 is a major application update. New features and enhancements include:'. This is followed by a bulleted list of features: 'SSH core upgraded to PuTTY 0.77. That includes support for rsa-sha2-256 and rsa-sha2-512 SSH public', 'Support for ACL for S3 protocol.', 'Support for file masks relative to the root of an operation.', 'Streaming support in .NET assembly and scripting for FTP protocol.', 'It is possible to import sessions from OpenSSH config file.', and a link 'List of all changes.'. Below the list is a large green button with the text 'DOWNLOAD WINSCP 5.21.3 (11 MB)'. This button is highlighted with a red rectangular border. To the right of the green button is a black button with the Microsoft logo and the text 'Get it from Microsoft'. Below the green button, it says '691,687 downloads since 2022-09-06'. To the right of this, there is a link 'What is this?'.

Learn More >

WinSCP 5.21 is a major application update. New features and enhancements include:

- SSH core upgraded to PuTTY 0.77. That includes support for rsa-sha2-256 and rsa-sha2-512 SSH public
- Support for ACL for S3 protocol.
- Support for file masks relative to the root of an operation.
- Streaming support in .NET assembly and scripting for FTP protocol.
- It is possible to import sessions from OpenSSH config file.
- [List of all changes.](#)

DOWNLOAD WINSCP 5.21.3 (11 MB)

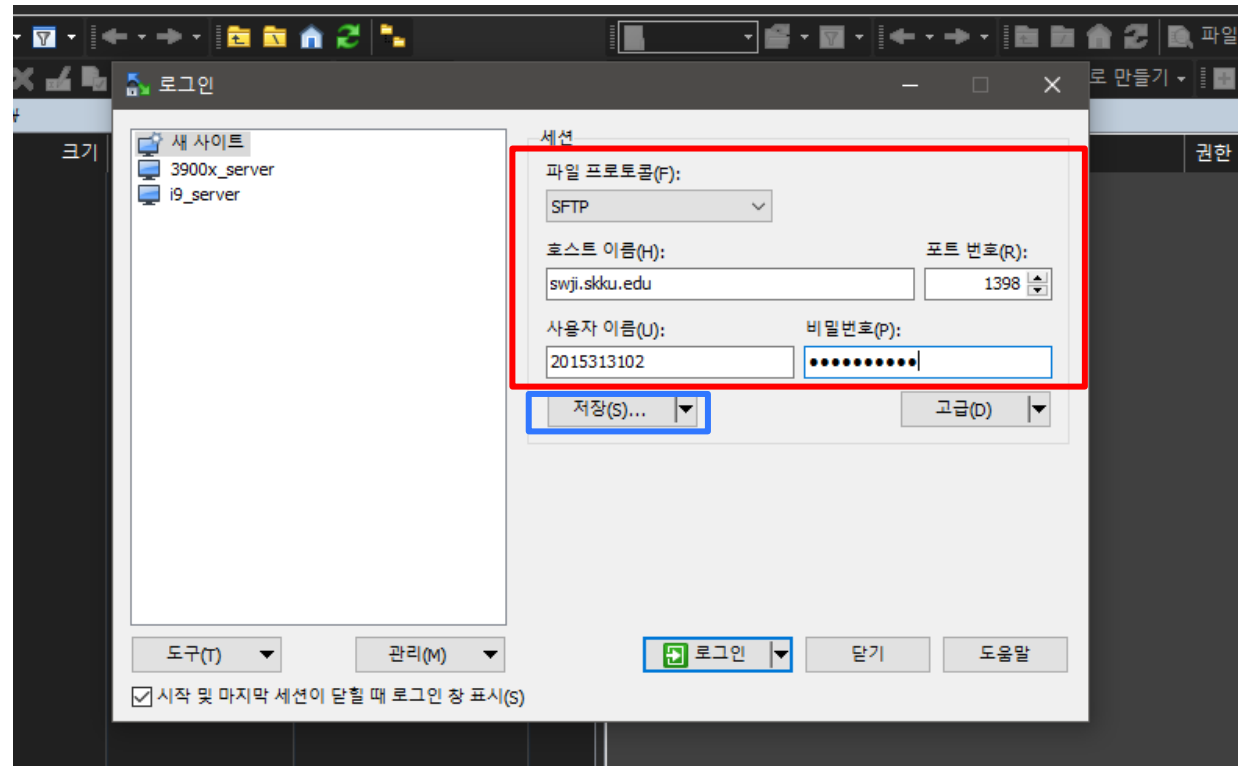
691,687 downloads since 2022-09-06

Get it from Microsoft

[What is this?](#)

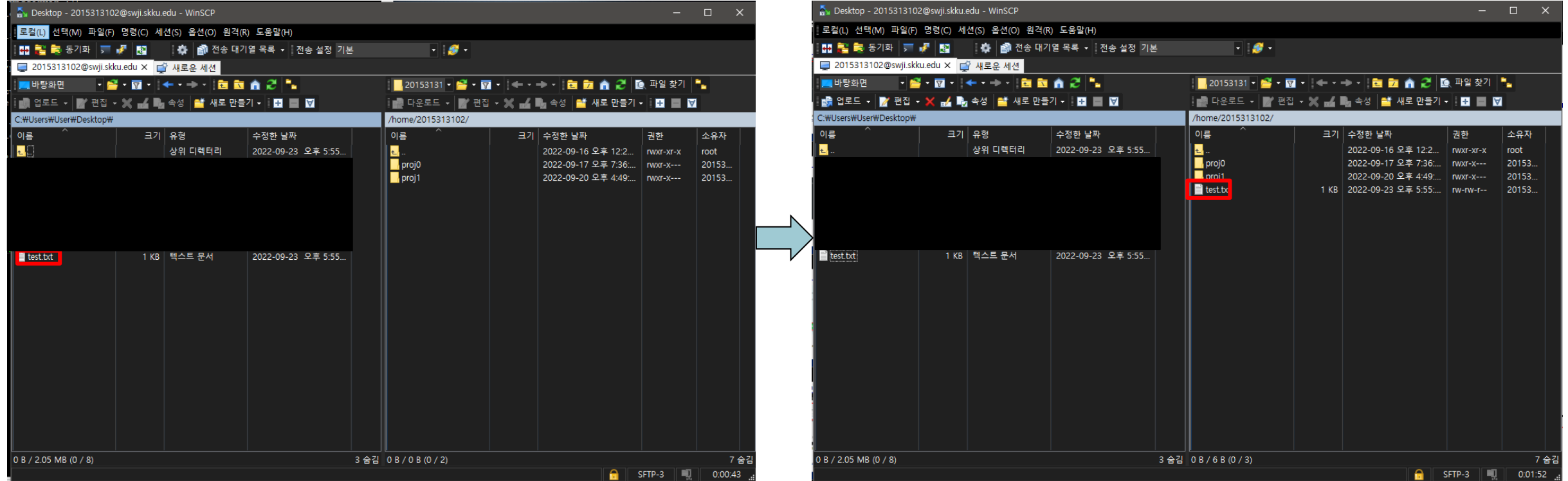
- <https://winscp.net/eng/download.php>
- Access the above site address and download the winscp installation file
- Follow the winscp installation process

WinSCP in Window (Move Files) (Cont.)



- After executing winscp, put the address, port number, studentID and password like the red box above
- Click 'Login' button
- If you put your name in the saved session and save it, you can load the information without entering the address and port next time.

WinSCP in Window (Move Files) (Cont.)



- If you 'drag and drop' the files or directory you want, they will be moved.

SCP in Linux (Move Files)

```
yt@baldur:~/Desktop$ sudo scp -P 1398 test1.txt 2015313102@swji.skku.edu:~  
[sudo] password for yt:  
  
Welcome To  
  
Inuiyeji  
  
Cluster  
  
For any account-related question,  
please send an e-mail to inuiyeji-skku@googlegroups.com  
  
2015313102@swji.skku.edu's password:  
test1.txt 100% 8 5.0KB/s 00:00  
yt@baldur:~/Desktop$
```

```
120 packages can be updated.  
2 updates are security updates.  
  
New release '20.04.5 LTS' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
*** System restart required ***  
Last login: Fri Sep 23 17:40:16 2022 from 115.145.178.54  
2015313102@swji:~$ ls  
proj0 proj1 test1.txt test.txt  
2015313102@swji:~$
```

- Enter a command 'sudo scp -P portNumber fileName studentID@address:your_path'
- Ex) sudo scp -P 1398 test1.txt studentID@swji.skku.edu:~
- Details of SCP : <https://man7.org/linux/man-pages/man1/scp.1.html>

Project Submit & Submit Check

```
2021712214@swji:~$ ls
proj0 proj1 test
2021712214@swji:~$ ~swe3005/bin/submit proj1 proj1
user name      :2021712214
Submitted Files for proj1:
File Name      File Size      Time
-----
proj1-2021712214-Mar.16.23.17.104594842      116      Tue Mar 16 23:17:10 2021
proj1-2021712214-Apr.02.21.47.223622050      210      Fri Apr 2 21:47:54 2021
2021712214@swji:~$ ~swe3005/bin/check-submission proj1
Submitted Files for proj1:
File Name      File Size      Time
-----
proj1-2021712214-Mar.16.23.17.104594842      116      Tue Mar 16 23:17:10 2021
proj1-2021712214-Apr.02.21.47.223622050      210      Fri Apr 2 21:47:54 2021

Your last submission
-----
[#]      File Name      File Size
-----
[ 1] proj1/      0 bytes
[ 2] proj1/Makefile      3 bytes
[ 3] proj1/mips.c      19 bytes
2021712214@swji:~$
```

Project Submit & Submit Check (Cont.)

- Clear the build directory
 - ❖ Do not leave any executable or object file in the submission
 - ❖ `make clean`