

KCLOUD VPN & VM Connection Guide

Process

1. Connect to KCloudVPN
2. Connect to VM

KCloudVPN: Linux

- Download the .zip file in this link: <https://kcloud.kaist.ac.kr/index.php/board/?mod=document&uid=136>

The screenshot shows a web browser window with the URL `kcloud.kaist.ac.kr/index.php/board/?mod=document&uid=136`. The page header includes the KAIST logo and navigation links: 소개, 튜토리얼, 서비스, 요금, and 고객센터. A breadcrumb trail shows the path: 홈 > 고객센터 > 게시판. The main content area is titled '게시판' (Board) and displays a post titled 'KCLOUD VPN 가이드(리눅스용)'. Below the title, a table provides details about the post: the author is 'administrator', the creation date is '2021-03-05 14:19', and the view count is '36'. At the bottom of the post entry, there is a blue button labeled 'KCLOUD VPN 가이드(리눅스용) 가이드문서 받기', which is highlighted with a red rectangular border.

KCLOUD VPN 가이드(리눅스용)			
작성자	administrator	작성일	2021-03-05 14:19
		조회	36
KCLOUD VPN 가이드(리눅스용) 가이드문서 받기			

KCloudVPN: Linux

- unzip the **.zip file** and extract **.tgz file**
 - xzvf option

```
kisoo@ubuntu:~/Downloads$ sudo unzip LINUX_Client_SSLVPN.zip
Archive:  LINUX_Client_SSLVPN.zip
  extracting: U2.0_linux_client/check.txt
  extracting: U2.0_linux_client/SSU20-CFL-V2.0.0.3.tgz
  extracting: U2.0_linux_client/V2.0_ЫВМЫЬЙЬЮР ЫЗДЫЙ|ЫЦ|V2.2.pdf
  extracting: U2.0_linux_client/ЫЖМЫИЕЬКД ЭБ|ЫЭ|ЬЭ|ЫЦ|ЭК| ЫДДЫ|Ш Ы|Ы|X.pdf
kisoo@ubuntu:~/Downloads$ cd U2.0_linux_client/
kisoo@ubuntu:~/Downloads/U2.0_linux_client$ sudo tar xzvf SSU20-CFL-V2.0.0.3.tgz
SecuwaySSLU_client
conf/
conf/client.info
libMagicCrypto.so
log/
sbin/
sbin/sslvpn
```

KCloudVPN: Linux

- edit **conf/client.info** file using editor
 - All configuration is the same as follows except userid and userpw
 - **userid: {kaist portal ID}, userpw: {kaist portal PW}**

(It is good to copy client.info in advance because the file changes every time you execute client file)

```
kisoo@ubuntu: ~/Downloads/U2.0_linux_client/conf
File Edit View Search Terminal Help
userid: VPN ID
userpw: VPN PW
vpn_ip: 192.249.18.254
vpn_port: 443
crypto: yes
log_size: 50
site-to-site: no
version3: no
cipher: iCT/Ij4F4XqvIj9fQRecSA==
```

KCloudVPN: Linux

- Execute client file
 - It will take some time to get connection message (10~15 sec)
 - If there is no progress after start message, then something might be wrong

```
kisoo@ubuntu:~/Downloads/U2.0_linux_client$ sudo ./SecuwaySSLU_client
SecuwaySSL U V2.0 start...
SecuwaySSL client connected!!
```

- (how to check process and kill the process)

```
kisoo@ubuntu:~/Downloads/U2.0_linux_client$ ps -ef|grep SecuwaySSLU_client
root      11001    4243    0 19:05 pts/0      00:00:00 ./SecuwaySSLU_client
kisoo     11155    8604    0 19:17 pts/0      00:00:00 grep --color=auto SecuwaySSLU_client
kisoo@ubuntu:~/Downloads/U2.0_linux_client$ sudo killall SecuwaySSLU_client
kisoo@ubuntu:~/Downloads/U2.0_linux_client$ Killed
^C
```

KCloudVPN: Linux

- Check whether VPN is really connected
 - Interface Information of tun0 should be printed
- Good Job!

```
kisoo@ubuntu:~/Downloads/U2.0_linux_client$ ifconfig
tun0: flags=4305<UP,POINTOPOINT,RUNNING,NOARP,MULTICAST> mtu 1500
    inet 10.10.7.131 netmask 255.255.0.0 destination 10.10.7.131
    inet6 fe80::2096:8f2:31f3:bc08 prefixlen 64 scopeid 0x20<link>
    unspec 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00 txqueuelen 100 (UNSPEC)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 7 bytes 336 (336.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

kisoo@ubuntu:~/Downloads/U2.0_linux_client$ route -nn
Kernel IP routing table
Destination      Gateway         Genmask         Flags Metric Ref    Use Iface
0.0.0.0          192.168.136.2  0.0.0.0         UG    100    0      0 ens33
10.10.0.0        0.0.0.0        255.255.0.0     U     0      0      0 tun0
169.254.0.0      0.0.0.0        255.255.0.0     U    1000    0      0 ens33
172.10.0.0       10.10.0.1      255.255.0.0     UG     0      0      0 tun0
192.168.136.0    0.0.0.0        255.255.255.0   U     100    0      0 ens33
```

KCloudVPN: Mac

- https://apple.secuwiz.co.kr/u_mac_down.html
- Download the file

SecuwaySSLVPN U MacOS App

VPN 앱, 사설인증서매니저를 이용하여 다양한 인증방식으로 MacOS 환경에서 VPN서비스를 이용할 수 있습니다.



다운로드

SecuwaySSL U V1.0

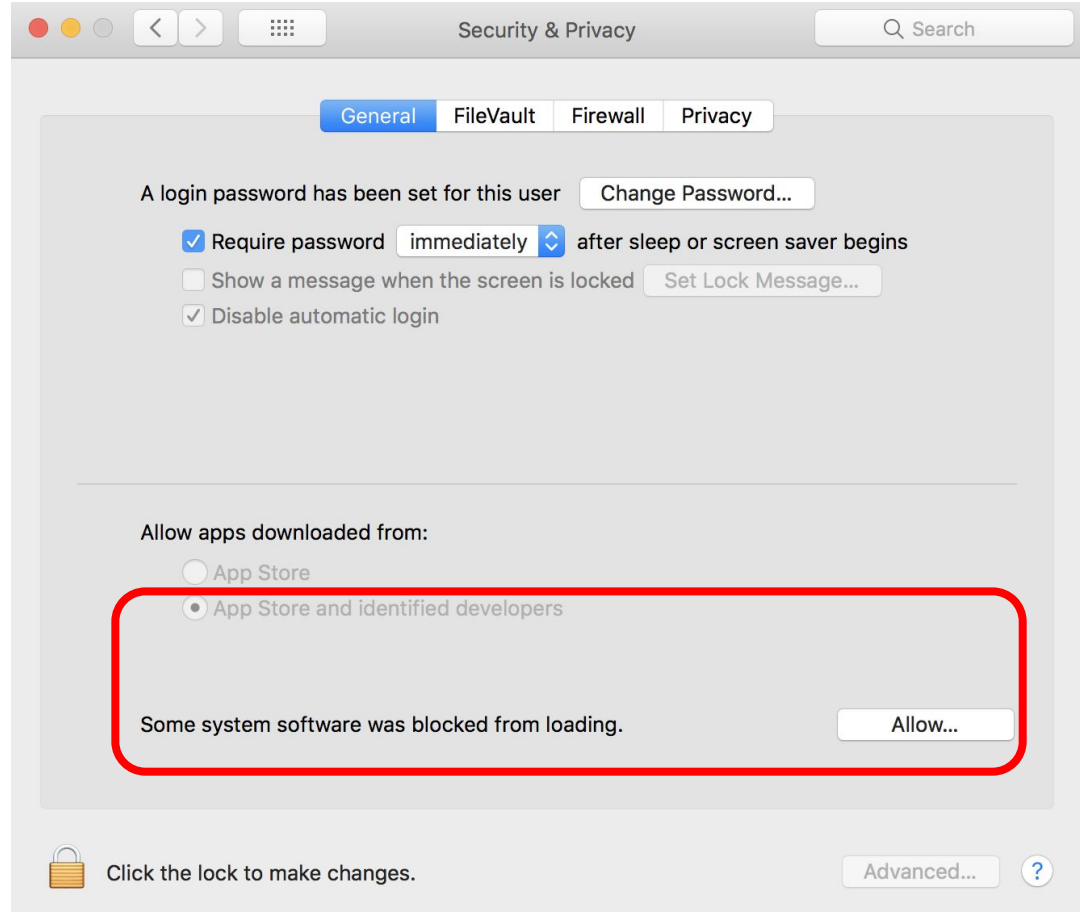
앱 이름	마지막 업데이트	다운로드
SecuwaySSLVPN U App 1.0.0.4	2018.5.8	 SSLVPN APP Download
SecuwaySSL U CM App 1.0.0.0	2017.7.20	 Cert manager Download
MacOS 사용자 매뉴얼	2017.7.20	 

SecuwaySSL U V2.0

앱 이름	마지막 업데이트	다운로드
SecuwaySSLVPN U App 2.0.1.1	2021.03.09	 SSLVPN APP Download

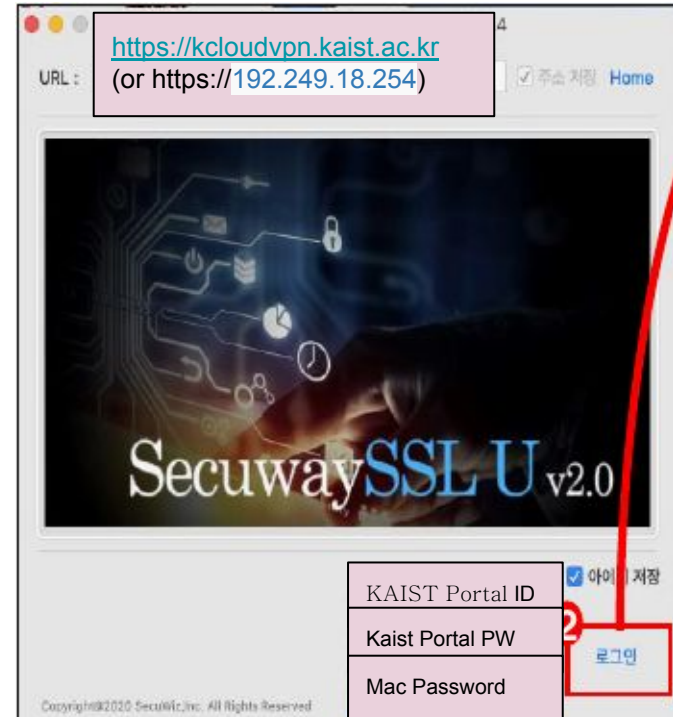
KCloudVPN: Mac

- Allow apps downloaded from identified developers
- Then install and execute the client



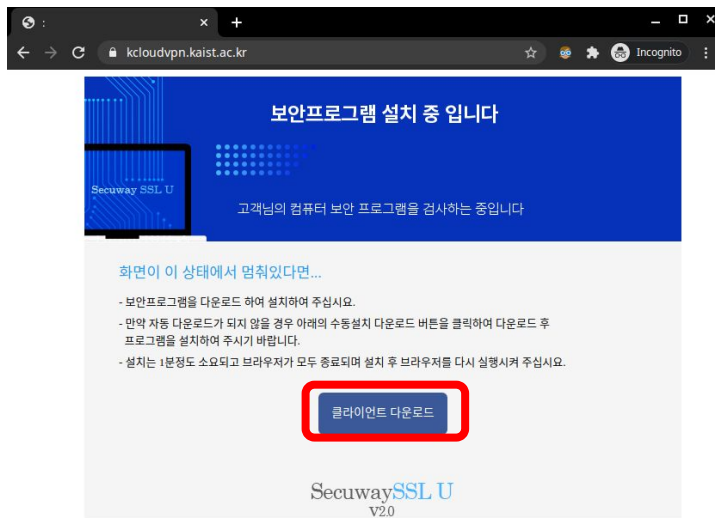
KCloudVPN: Mac

- Connect KCloudVPN with given information
- Good Job!



KCloudVPN: Windows

- type <https://kcloudvpn.kaist.ac.kr> in your browser (OR <https://192.249.18.254>)
- Download and Install the file (SSU20-CFW-V2.0.0.4.exe)
- Re-open the browser



KCloudVPN: Windows

- Login with given VPN ID and PW



User
LOGIN

ID	KAIST Portal ID
PW	KAIST Portal PW
<button>LOGIN</button>	


NOTICE

KCLOUD VPN MAC OS 클라이언트 프로그램 가이드

KCLOUD VPN Linux 클라이언트 프로그램 가이드

KCloudVPN: Windows

- Good Job!

 전산학부

로그아웃

사용자 관리

즐거찾기

접속시간 : 2021/03/11 13:46:22 , 웹페이지 로그아웃까지 : 09:55

즐거찾기 즐겨찾기로 편리하게 찾아 보실 수 있습니다.

Name	URL/IP
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KCloudVPN

- User Manual (Korean with screenshots): <https://bit.ly/38qCBlu>
- (Windows)
- (Linux) **Instructions and client files**
 - <https://kcloud.kaist.ac.kr/index.php/board/?mod=document&uid=136>
- (Mac) **Instructions**
 - <https://kcloud.kaist.ac.kr/index.php/board/?mod=document&uid=132&pageid=1#kboard-document>
- **Please follow the instructions** and ask questions to TA if there are any problems.

Connect to VM

- After KCloudVPN connection, connect to VM via SSH
 - by key : `ssh -i [given pem or ppk key file] username@NAT IP -p 22`
 - by account : `ssh username@NAT IP -p 22`

- Welcome!

```
welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.15.0-122-generic x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

System information as of Wed Mar 10 10:27:38 UTC 2021

System load:  0.0               Processes:    396
Usage of /:   1.6% of 96.75GB   Users logged in: 0
Memory usage: 1%               IP address for ens3: 10.0.0.10
Swap usage:   0%

* Introducing self-healing high availability clusters in MicroK8s.
  Simple, hardened, Kubernetes for production, from RaspberryPi to DC.

  https://microk8s.io/high-availability

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

0 packages can be updated.
0 updates are security updates.

*** System restart required ***
Last login: Sat Mar  6 08:03:09 2021 from 10.10.7.131
ubuntu@20316-ss102b-2000etx-24a:~$
```