## Windows WSL 2 설치

2022. 7. 12

정 준 수 PhD

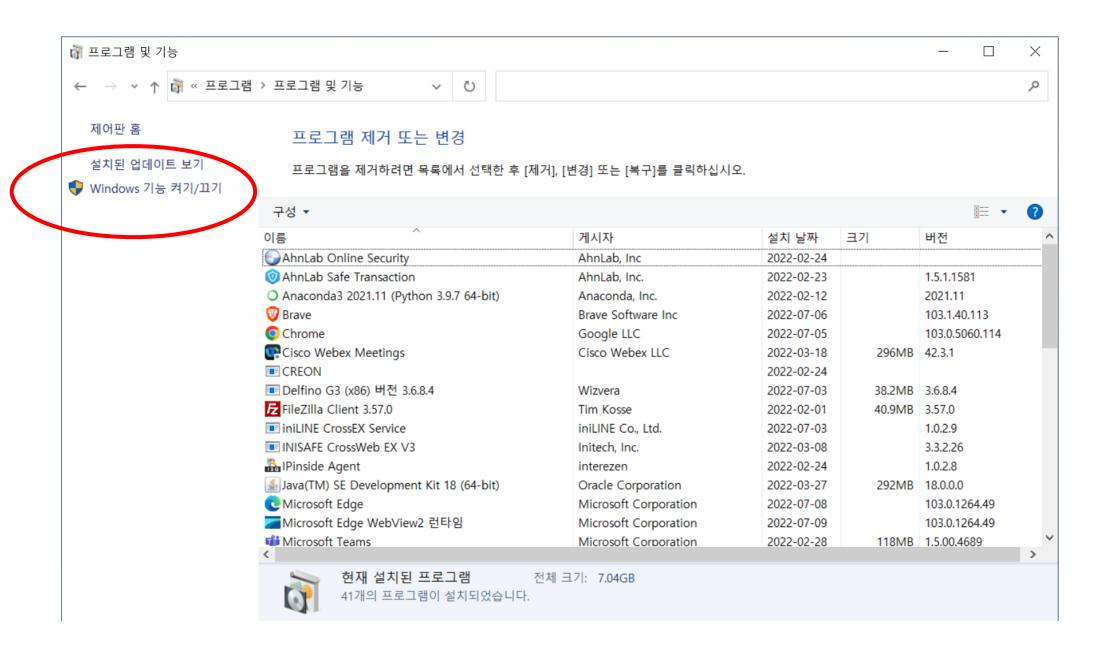
### PC(Local) 환경구축: WSL

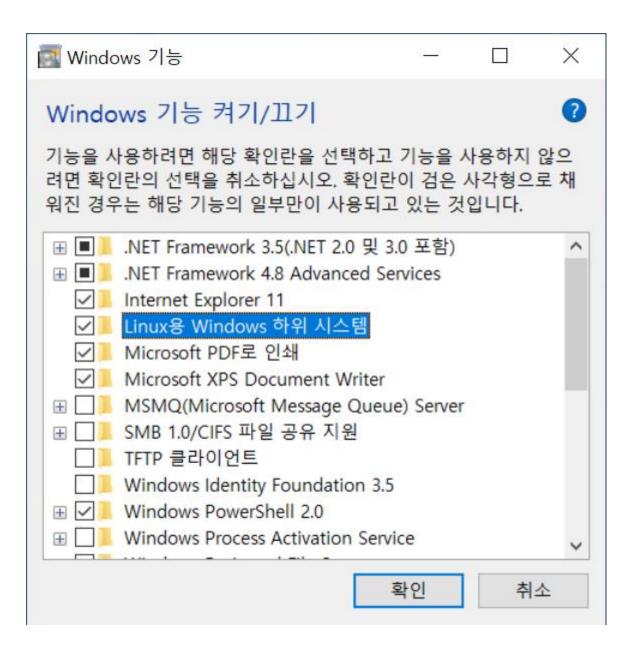
#### 윈도우 환경에서 원하는 Linux를 실행

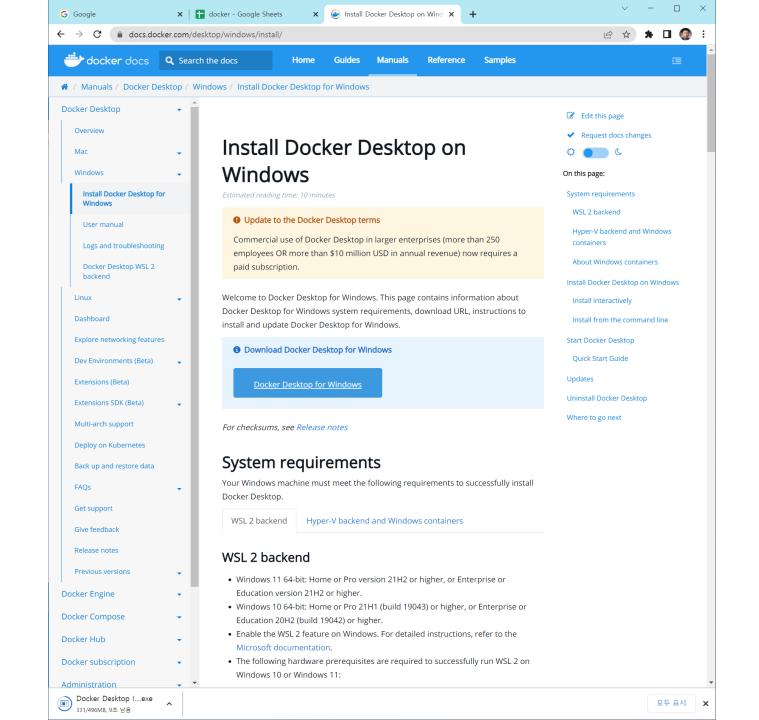
- 1. 관리자 권한으로 명령 프롬프트(CMD) 실행
- 2. <a href="https://docs.microsoft.com/ko-kr/windows/wsl/tutorials/gui-apps">https://docs.microsoft.com/ko-kr/windows/wsl/tutorials/gui-apps</a>
- 3. C> Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-windows-Subsystem-Linux
- 4. 또는 <a href="https://ivyit.tistory.com/264">https://ivyit.tistory.com/264</a>
- 5. Microsoft Store 열기
- 6. Ubuntu 또는 Debian 선택

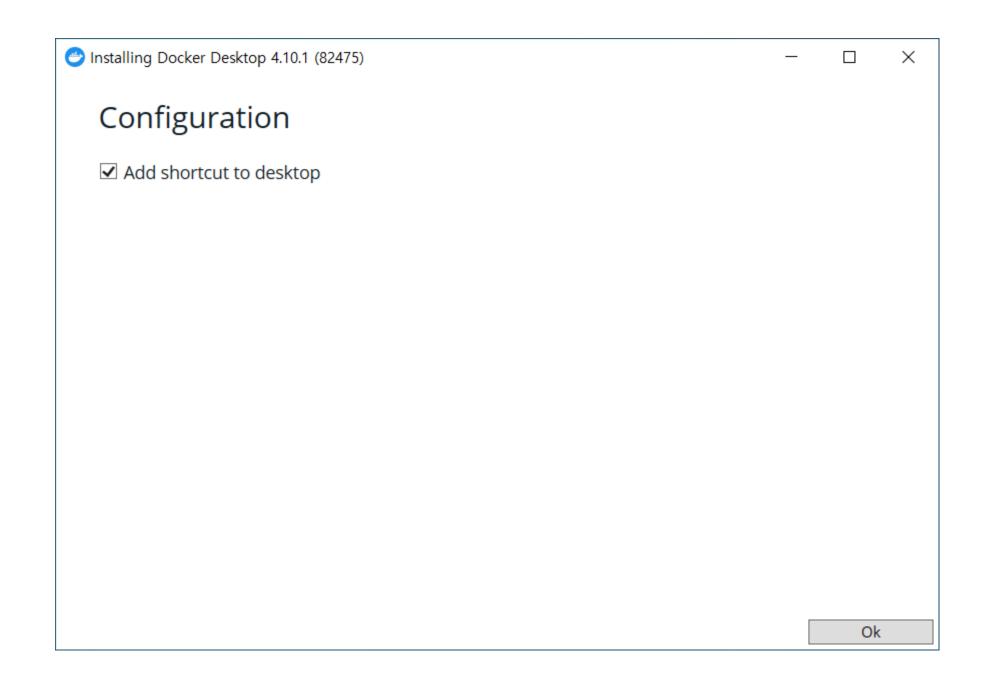
#### https://docs.microsoft.com/ko-kr/windows/wsl/install

https://docs.microsoft.com/ko-kr/windows/wsl/install-manual#step-4---download-the-linux-kernel-update-package











Unpacking file: resources/docker-desktop.iso

Unpacking file: resources/ddvp.ico

Unpacking file: resources/config-options.json

Unpacking file: resources/componentsVersion.json

Unpacking file: resources/bin/docker-compose

Unpacking file: resources/bin/docker Unpacking file: resources/.gitignore

Unpacking file: InstallerCli.pdb

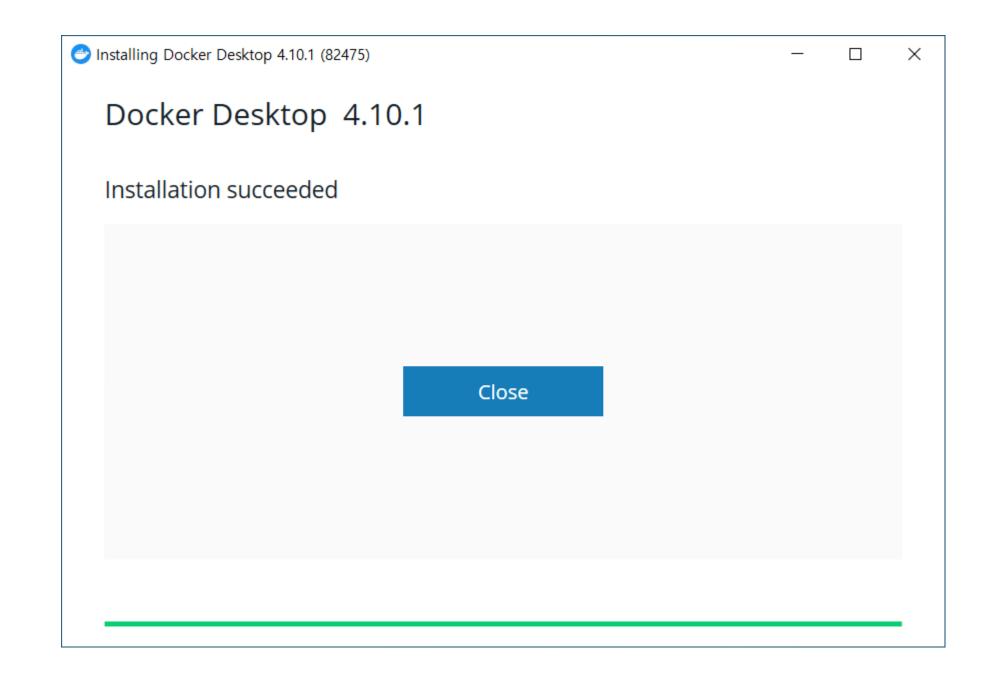
Unpacking file: InstallerCli.exe.config

Unpacking file: frontend/vk\_swiftshader\_icd.json Unpacking file: frontend/v8\_context\_snapshot.bin

Unpacking file: frontend/snapshot\_blob.bin

Unpacking file: frontend/resources/regedit/vbs/util.vbs
Unpacking file: frontend/resources/regedit/vbs/regUtil.vbs

X





Containers

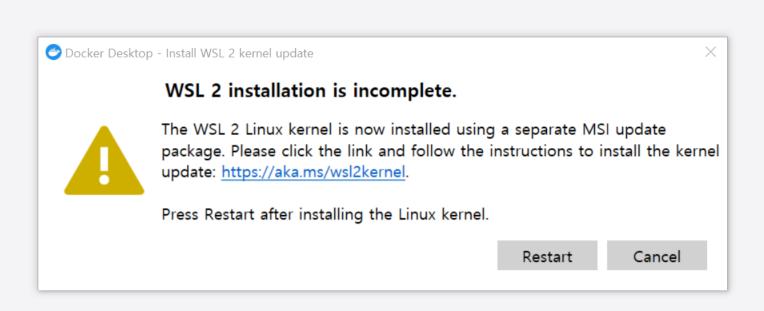
Images

Volumes

Dev Environments BETA

Extensions BETA

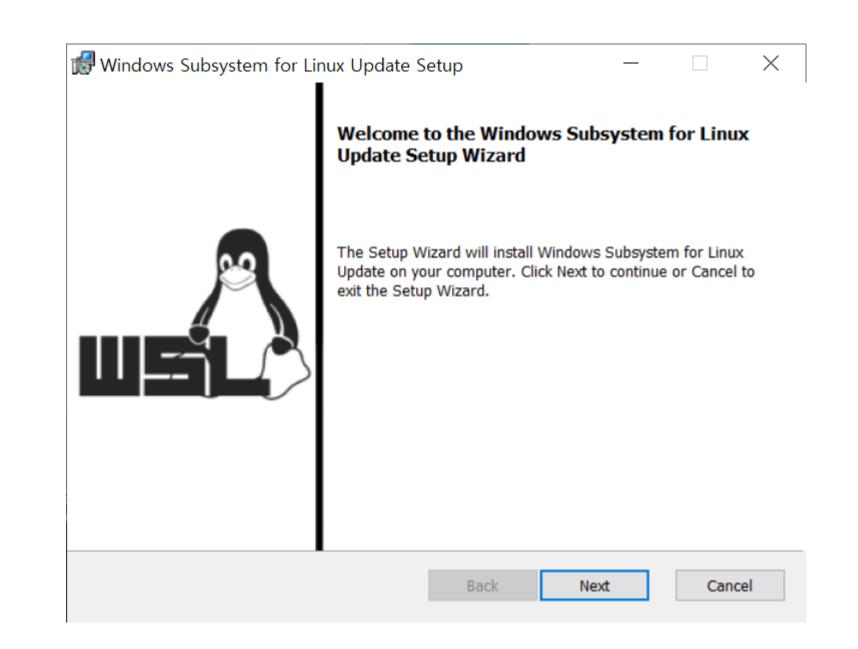
Add Extensions



drjsjeong 😩

# WSL 2 installation incomplete error 발생시 설치 Package

https://docs.microsoft.com/ko-kr/windows/wsl/install-manual#step-4--download-the-linux-kernel-update-package



Microsoft Windows [Version 10.0.19044.1766] (c) Microsoft Corporation. All rights reserved.

C:₩windows\system32>wsl --set-default-version 2 WSL 2와의 주요 차이점에 대한 자세한 내용은 https://aka.ms/wsl2를 참조하세요 작업을 완료했습니다.

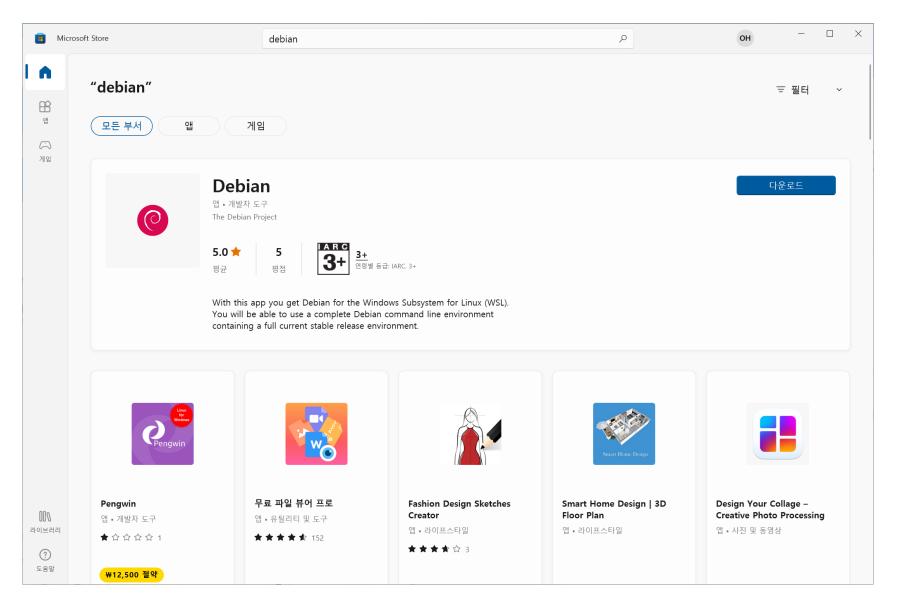
C:₩Windows₩system32>\_

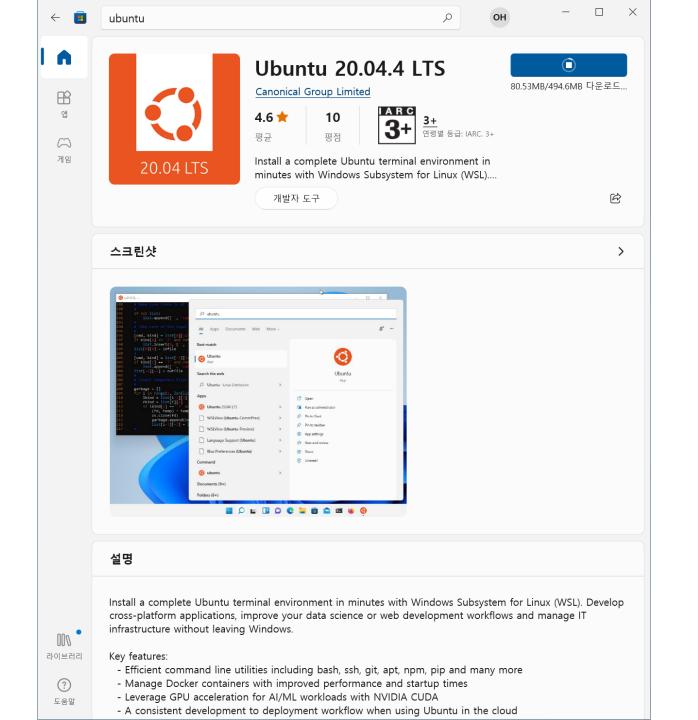
V

#### 설치 가능한 리눅스 배포본은 "-I -o" 옵션으로 확인



### Microsoft Store에서: Linux 선택





Installing, this may take a few minutes... Please create a default UNIX user account. The username does not need to match your Windows username. For more information visit: https://aka.ms/wslusers Enter new UNIX username: admin

UNIX username: me
passwd: diana
\$ sudo passwd root
diana
# https://positivemh.tistory.com/583

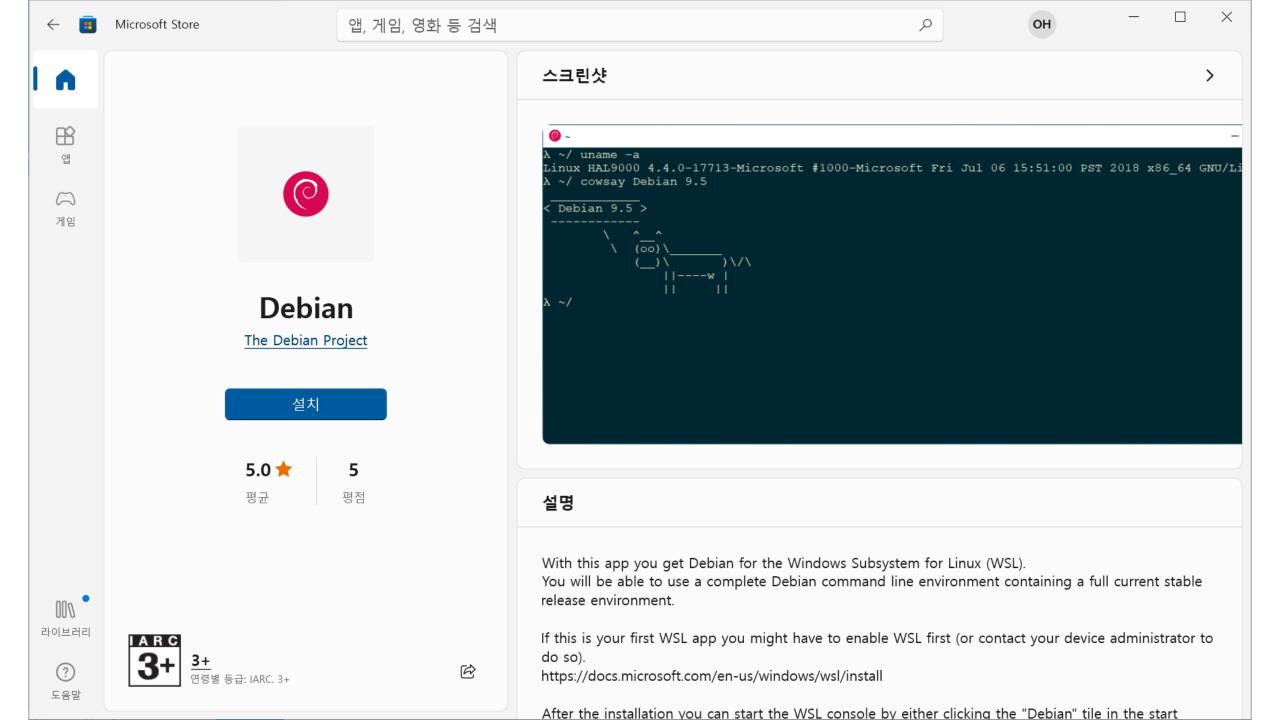
```
me@DESKTOP-HAAI0JO: ~
                                                                                                               Retype new password:
passwd: password updated successfully
Installation successful!
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.10.16.3-microsoft-standard-WSL2 x86 64)
* Documentation: https://help.ubuntu.com
* Management:
                 https://landscape.canonical.com
* Support:
                  https://ubuntu.com/advantage
 System information as of Sat Jul 9 14:52:19 KST 2022
 System Load: 0.06
                                  Processes:
 Usage of /: 0.5% of 250.98GB Users logged in:
                                                         0
                                  IPv4 address for eth0: 172.30.199.88
 Memory usage: 0%
 Swap usage: 0%
 update can be applied immediately.
To see these additional updates run: apt list --upgradable
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
This message is shown once a day. To disable it please create the
/home/me/.hushlogin file.
```

Microsoft Windows [Version 10.0.19044.1766] (c) Microsoft Corporation. All rights reserved.

C:₩windows\system32>wsl --set-default-version 2 WSL 2와의 주요 차이점에 대한 자세한 내용은 https://aka.ms/wsl2를 참조하세요 작업을 완료했습니다.

C:₩Windows₩system32>\_

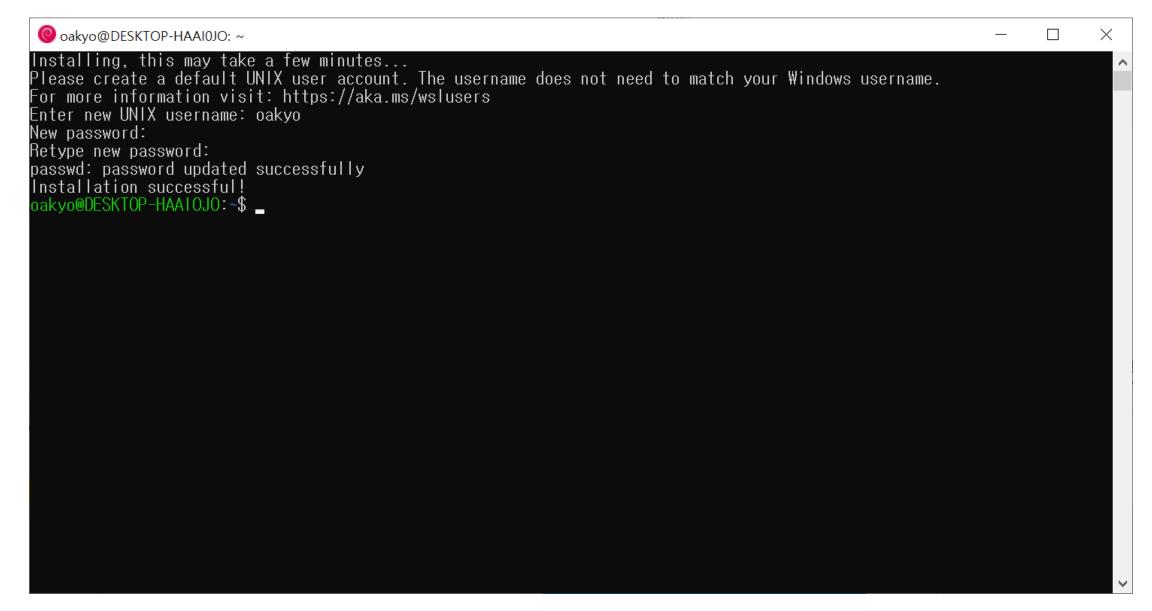
V



### Debian 설치 과정



### Debian 설치 과정



### Python 설치 과정(Anaconda)

- \$ sudo apt update
- \$ sudo apt upgrade
- \$ sudo apt-get install wget

Anaconda 설치: <a href="https://repo.anaconda.com/archive/">https://repo.anaconda.com/archive/</a>

- \$ wget <a href="https://repo.anaconda.com/archive/Anaconda3-2021.11-Linux-x86">https://repo.anaconda.com/archive/Anaconda3-2021.11-Linux-x86</a> 64.sh
- \$ bash Anaconda3-2021.11-Linux-x86\_64.sh

#### PATH 추가

\$ export PATH=/home/{login ID}/anaconda3/bin:\$PATH

### Python 설치 과정

- Python3 설치
- \$ sudo apt install python3
- Python3-venv 설치
- \$ sudo apt install python3-venv
- Python3-venv 설치
- \$ sudo apt install python3-venv
- 가상 환경 세팅
- \$ python3 -m venv ~/virtualenv
- \$ source ~/virtualenv/bin/activate

#### Python version 확인

\$ python –version

#### PC(Local) 파일 확인

\$ explorer.exe .

#### Java 설치 과정

\$ sudo apt install default-jre

\$ sudo apt install default-jdk

\$ export JAVA\_HOME=/usr/lib/jvm/java-1.11.0-openjdk-amd64

\$ java –version

https://serverspace.io/support/help/how-to-install-java-with-apt-on-ubuntu-18-04/

#### SSH 설치 과정

```
$ ssh-keygen -t rsa
                            # ssh key 생성
$ cd
$ cat .ssh/id_rsa.pub >> .ssh/authorized_keys
$ sudo apt-get install openssh-server
$ sudo systemctl status ssh # The system confirms that the SSH service is running.
$ sudo service ssh start (or stop)
$ ssh <ID>
$ sudo apt install nettools
$ netstat -a # port 확인
```

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