

WSL(Windows Subsystem for Linux) 설치 및 사용법

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요 약

Linux 기반의 Ubuntu 운영 체제를 Windows의 Subsystem을 이용하여 설치 및 사용법을 숙지하는 것을 목표로 한다.

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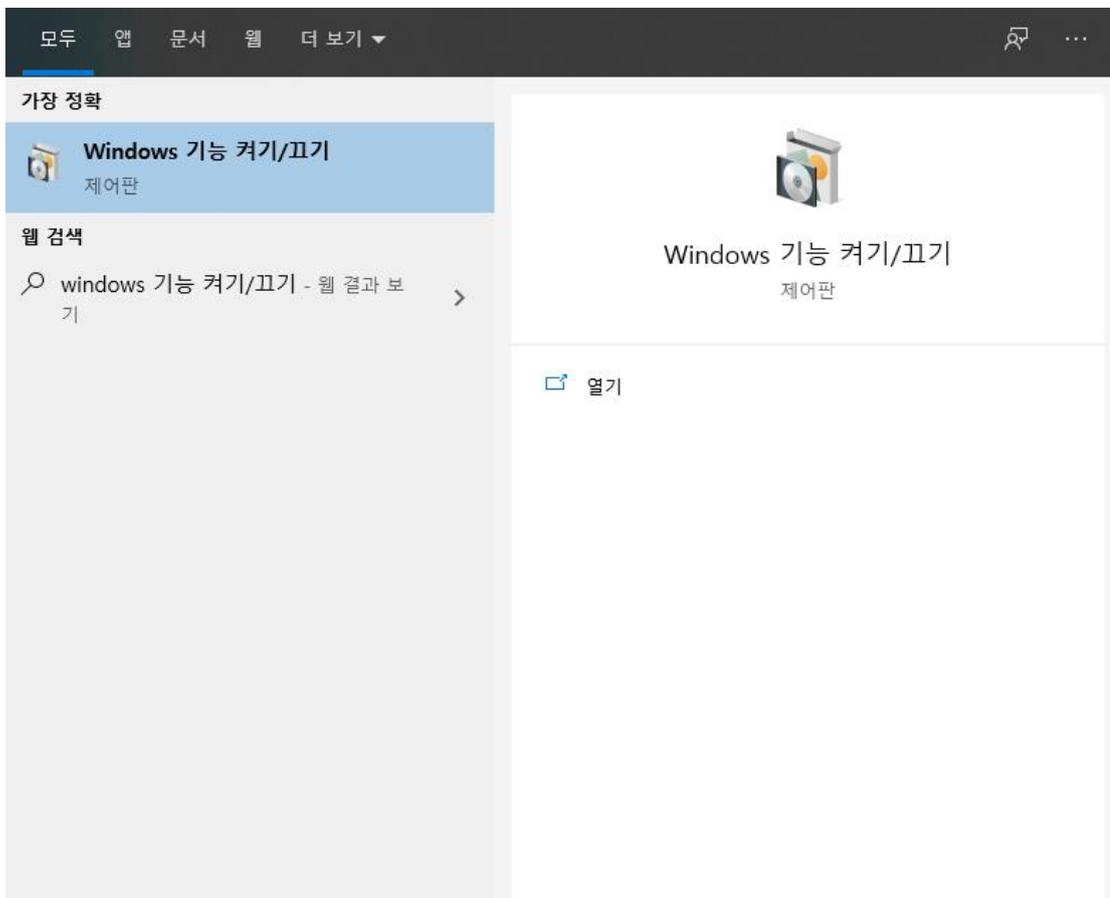
1. 서론

Microsoft가 Linux를 WSL(Windows Subsystem for Linux)라는 방식으로 지원하고 있다. 이전에는 VMware, VirtualBox를 사용하여 Virtual Machine을 통해 Linux를 사용하였지만, Subsystem이라는 방식으로 Linux를 Windows에서 사용할 수 있다.

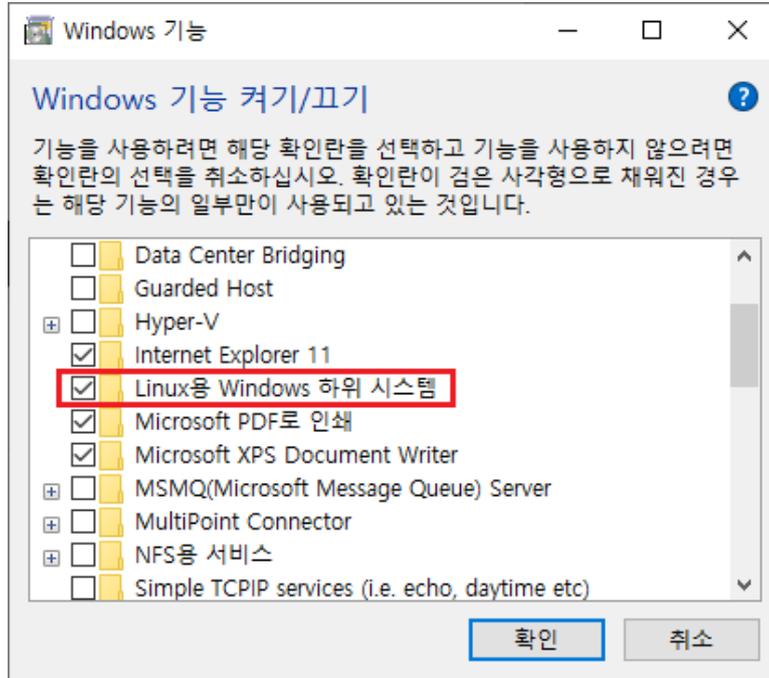
2. WSL(Windows Subsystem for Linux)

2.1 WSL 설치 및 환경 설정

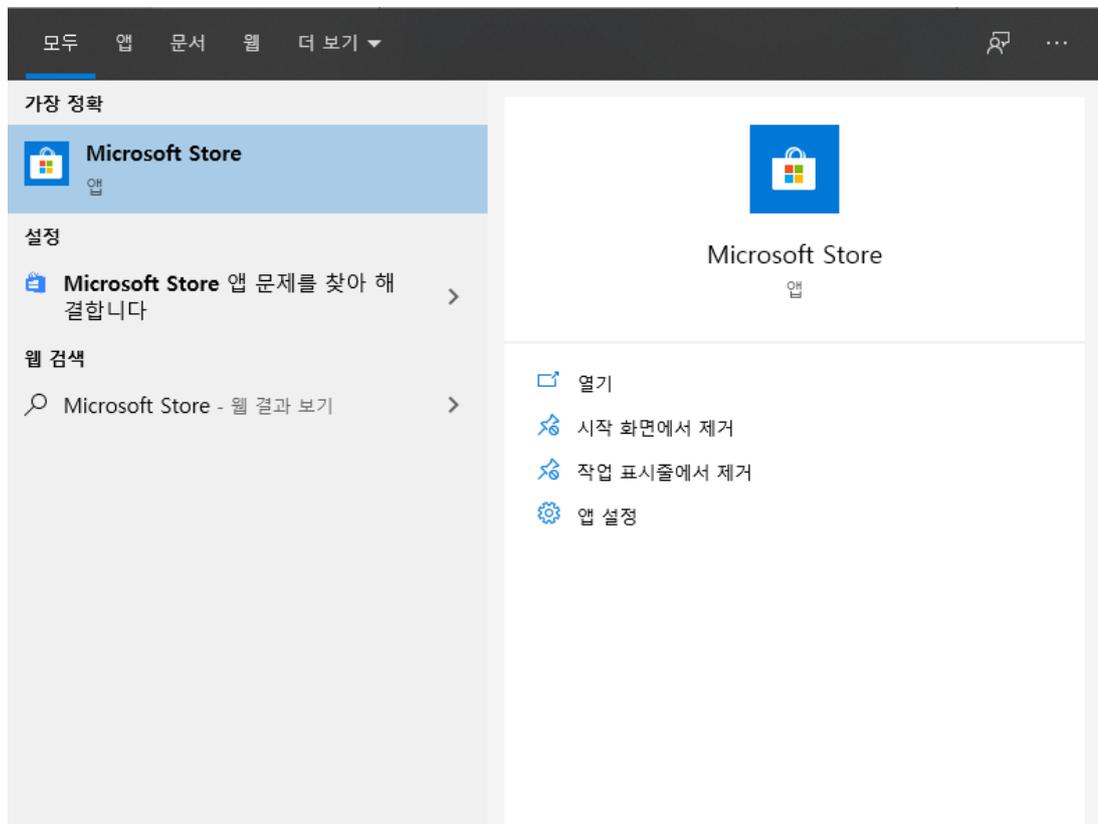
(1) 시작 - “Windows 기능 켜기/끄기” - 클릭



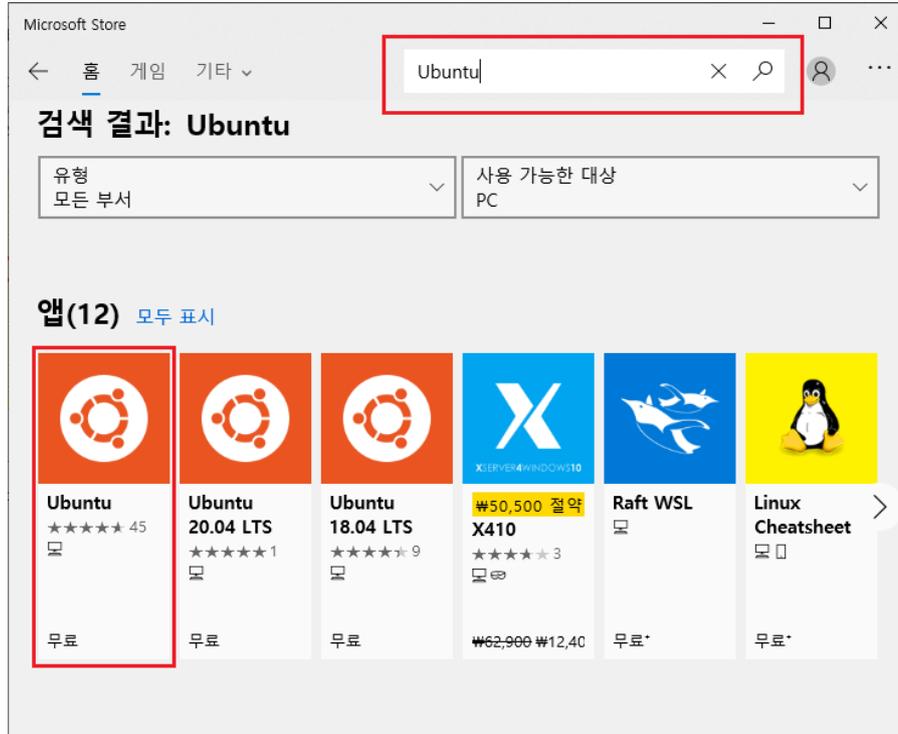
(2) “Linux용 Windows 하위 시스템” 체크하여 활성화 후 재부팅[1]



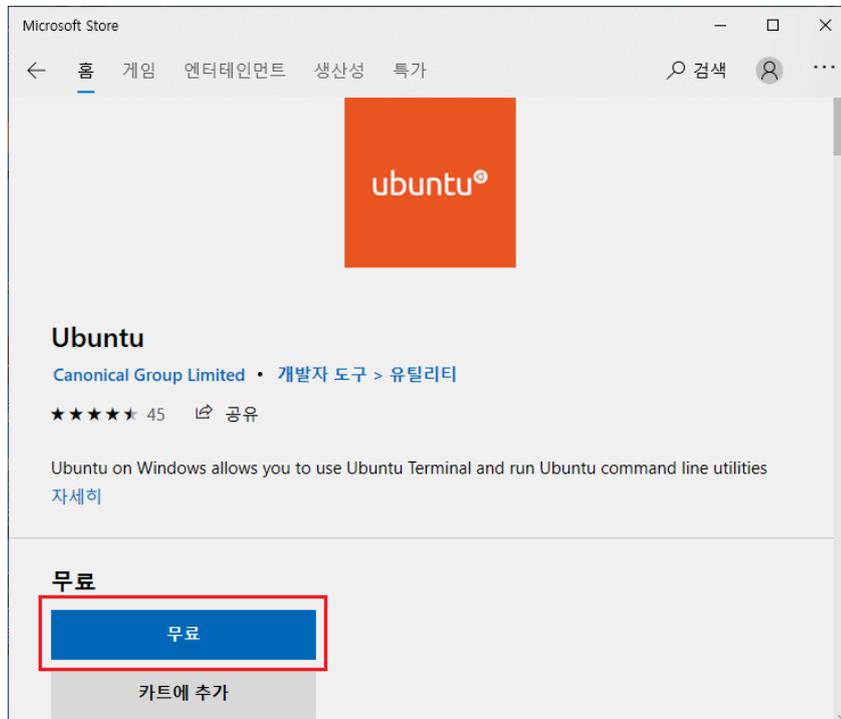
(3) 재부팅 후, 시작 - “Microsoft Store” - 클릭



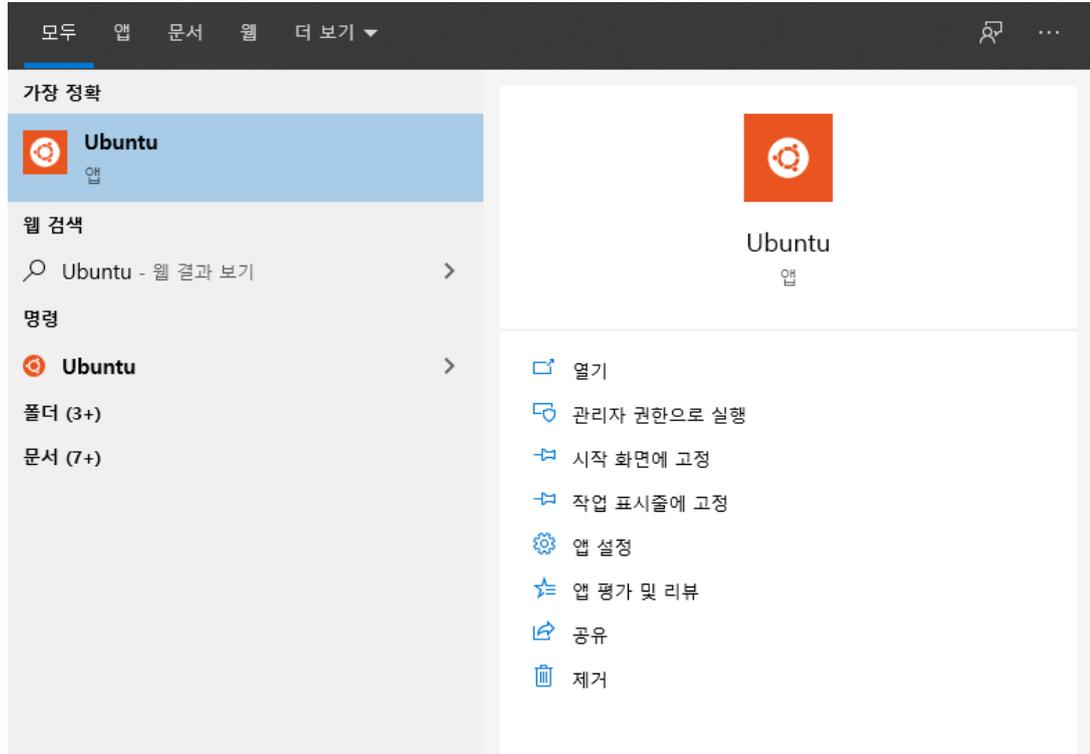
(4) 검색 - "Ubuntu" 검색 - 첫 번째 Ubuntu 클릭



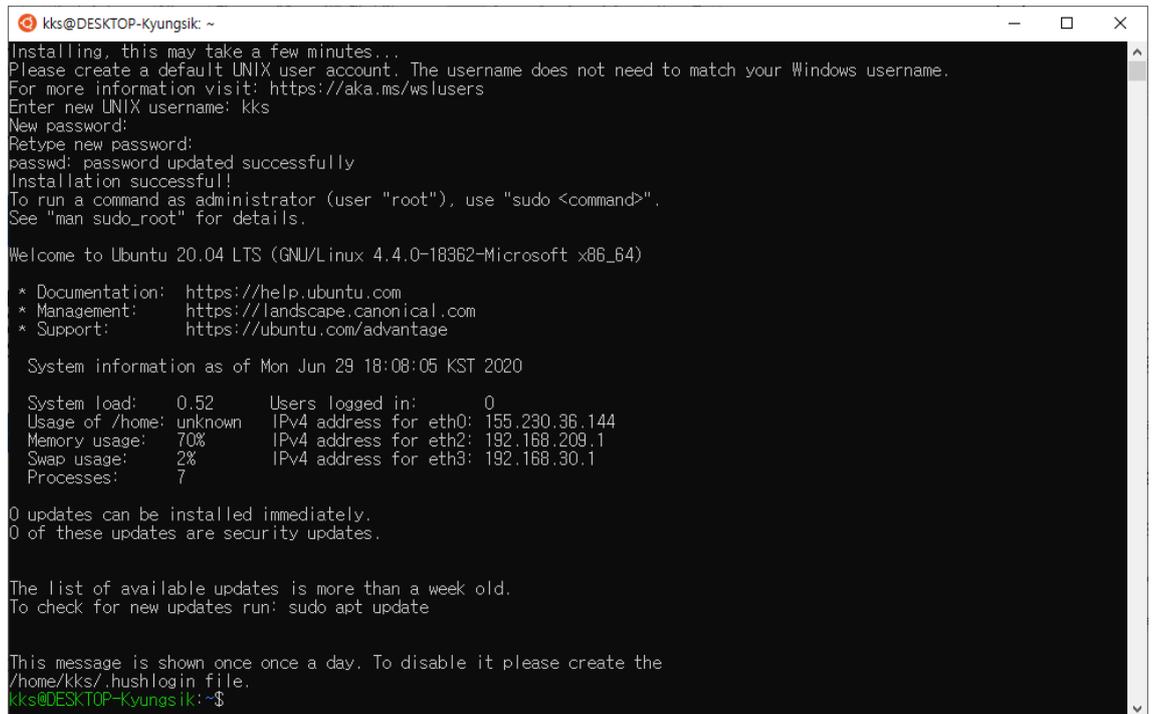
(5) 하단의 "무료" 클릭(설치)



(6) 설치 완료 후, 시작 - "Ubuntu" 검색 - 실행



(7) Ubuntu 실행 후 username, password 입력



(8) Package 업데이트를 위해 root 권한으로 전환하는 “sudo -i”, password 입력[2]

```
root@DESKTOP-Kyungsik: ~
kks@DESKTOP-Kyungsik:~$ sudo -i
[sudo] password for kks:
Welcome to Ubuntu 20.04 LTS (GNU/Linux 4.4.0-18362-Microsoft x86_64)

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

System information as of Mon Jun 29 20:25:40 KST 2020

System load:  0.52   Users logged in:  0
Usage of /home: unknown  IPv4 address for eth0: 155.230.36.144
Memory usage: 70%    IPv4 address for eth2: 192.168.209.1
Swap usage:   2%     IPv4 address for eth3: 192.168.30.1
Processes:    9

0 updates can be installed immediately.
0 of these updates are security updates.

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 once a day. To disable it please create the
/root/.hushlogin file.
root@DESKTOP-Kyungsik:~#
```

(9) Root 권한에서 “apt-get update”를 입력해서 업데이트 진행[3]

```
root@DESKTOP-Kyungsik: ~
root@DESKTOP-Kyungsik:~# apt-get update
Get:1 http://archive.ubuntu.com/ubuntu focal InRelease [265 kB]
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [107 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease [107 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease [98.9 kB]
Get:5 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [117 kB]
Get:6 http://archive.ubuntu.com/ubuntu focal/main amd64 Packages [970 kB]
Get:7 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [43.3 kB]
Get:8 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [2952 B]
Get:9 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [23.2 kB]
Get:10 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [6320 B]
Get:11 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [324 B]
Get:12 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [36.0 kB]
Get:13 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [18.1 kB]
Get:14 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [1628 B]
Get:15 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [1172 B]
Get:16 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-en [540 B]
Get:17 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [116 B]
Get:18 http://archive.ubuntu.com/ubuntu focal/main Translation-en [506 kB]
Get:19 http://archive.ubuntu.com/ubuntu focal/main amd64 c-n-f Metadata [29.5 kB]
Get:20 http://archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8628 kB]
Get:21 http://archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]
Get:22 http://archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f Metadata [265 kB]
Get:23 http://archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [144 kB]
Get:24 http://archive.ubuntu.com/ubuntu focal/multiverse Translation-en [104 kB]
Get:25 http://archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n-f Metadata [9136 B]
Get:26 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [211 kB]
Get:27 http://archive.ubuntu.com/ubuntu focal-updates/main Translation-en [83.9 kB]
Get:28 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [6024 B]
Get:29 http://archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [23.3 kB]
Get:30 http://archive.ubuntu.com/ubuntu focal-updates/restricted Translation-en [6320 B]
Get:31 http://archive.ubuntu.com/ubuntu focal-updates/restricted amd64 c-n-f Metadata [324 B]
Get:32 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [115 kB]
Get:33 http://archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [54.8 kB]
Get:34 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [4184 B]
Get:35 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [1172 B]
Get:36 http://archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [540 B]
Get:37 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [116 B]
Get:38 http://archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [112 B]
Get:39 http://archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]
Get:40 http://archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [2784 B]
Get:41 http://archive.ubuntu.com/ubuntu focal-backports/universe Translation-en [1272 B]
Get:42 http://archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [192 B]
Get:43 http://archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 17.1 MB in 8s (2230 kB/s)
Reading package lists... Done
root@DESKTOP-Kyungsik:~#
```

(10) gcc/g++ 설치를 위해 “apt-get -y install gcc g++” 입력

```
root@DESKTOP-Kyungsik ~
root@DESKTOP-Kyungsik:~# apt-get -y install gcc g++
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu cpp cpp-9 g++ g++-9 gcc-9 gcc-9-base libasan5 libatomic1 libbinutils
  libc-dev-bin libc6-dev libc6-i386 libcrypt-dev libctf-nobfd0 libctf0 libgcc-9-dev libgomp1 libisl22 libitm1 liblsan0
  libmpc3 libquadmath0 libstdc++-9-dev libtsan0 libubsan1 linux-libc-dev manpages-dev
Suggested packages:
  binutils-doc cpp-doc gcc-9-locales g++-multilib g++-9-multilib gcc-9-doc gcc-multilib make autoconf automake libtool
  flex bison gdb gcc-doc gcc-9-multilib glibc-doc libstdc++-9-doc
The following NEW packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu cpp cpp-9 g++ g++-9 gcc gcc-9 gcc-9-base libasan5 libatomic1
  libbinutils libc-dev-bin libc6-dev libc6-i386 libcrypt-dev libctf-nobfd0 libctf0 libgcc-9-dev libgomp1 libisl22
  libitm1 liblsan0 libmpc3 libquadmath0 libstdc++-9-dev libtsan0 libubsan1 linux-libc-dev manpages-dev
0 upgraded, 31 newly installed, 0 to remove and 79 not upgraded.
Need to get 38.7 MB of archives.
After this operation, 169 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu focal/main amd64 binutils-common amd64 2.34-6ubuntu1 [207 kB]
Get:2 http://archive.ubuntu.com/ubuntu focal/main amd64 libbinutils amd64 2.34-6ubuntu1 [474 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal/main amd64 libctf-nobfd0 amd64 2.34-6ubuntu1 [47.0 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal/main amd64 libctf0 amd64 2.34-6ubuntu1 [46.6 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal/main amd64 binutils-x86-64-linux-gnu amd64 2.34-6ubuntu1 [1614 kB]
Get:6 http://archive.ubuntu.com/ubuntu focal/main amd64 binutils amd64 2.34-6ubuntu1 [3376 B]
Get:7 http://archive.ubuntu.com/ubuntu focal/main amd64 gcc-9-base amd64 9.3.0-10ubuntu2 [19.3 kB]
Get:8 http://archive.ubuntu.com/ubuntu focal/main amd64 libisl22 amd64 0.22.1-1 [592 kB]
Get:9 http://archive.ubuntu.com/ubuntu focal/main amd64 libmpc3 amd64 1.1.0-1 [40.8 kB]
Get:10 http://archive.ubuntu.com/ubuntu focal/main amd64 libquadmath0 amd64 2.34-6ubuntu1 [150 kB]
Get:11 http://archive.ubuntu.com/ubuntu focal/main amd64 libc6-i386 amd64 2.34-6ubuntu1 [7491 kB]
Get:12 http://archive.ubuntu.com/ubuntu focal/main amd64 libc6-dev amd64 2.34-6ubuntu1 [2609 kB]
Get:13 http://archive.ubuntu.com/ubuntu focal/main amd64 libcrypt-dev amd64 1:4.4.1-1 [112 kB]
Get:14 http://archive.ubuntu.com/ubuntu focal/main amd64 libctf-nobfd0 amd64 2.34-6ubuntu1 [47.0 kB]
Get:15 http://archive.ubuntu.com/ubuntu focal/main amd64 libctf0 amd64 2.34-6ubuntu1 [46.6 kB]
Get:16 http://archive.ubuntu.com/ubuntu focal/main amd64 libubsan1 amd64 9.3.0-10ubuntu2 [342 kB]
Get:17 http://archive.ubuntu.com/ubuntu focal/main amd64 libtsan0 amd64 9.3.0-10ubuntu2 [265 kB]
Get:18 http://archive.ubuntu.com/ubuntu focal/main amd64 libasan5 amd64 9.3.0-10ubuntu2 [224 kB]
Get:19 http://archive.ubuntu.com/ubuntu focal/main amd64 libatomic1 amd64 9.3.0-10ubuntu2 [7248 B]
Get:20 http://archive.ubuntu.com/ubuntu focal/main amd64 libitm1 amd64 9.3.0-10ubuntu2 [26.5 kB]
Get:21 http://archive.ubuntu.com/ubuntu focal/main amd64 libbinutils amd64 2.34-6ubuntu1 [474 kB]
Get:22 http://archive.ubuntu.com/ubuntu focal/main amd64 binutils amd64 2.34-6ubuntu1 [3376 B]
Get:23 http://archive.ubuntu.com/ubuntu focal/main amd64 gcc-9 amd64 9.3.0-10ubuntu2 [16.5 MB]
Get:24 http://archive.ubuntu.com/ubuntu focal/main amd64 g++-9 amd64 9.3.0-10ubuntu2 [12.5 MB]
Get:25 http://archive.ubuntu.com/ubuntu focal/main amd64 gcc amd64 9.3.0-10ubuntu2 [42.9 kB]
Get:26 http://archive.ubuntu.com/ubuntu focal/main amd64 g++ amd64 9.3.0-10ubuntu2 [12.5 MB]
Get:27 http://archive.ubuntu.com/ubuntu focal/main amd64 libisl22 amd64 0.22.1-1 [592 kB]
Get:28 http://archive.ubuntu.com/ubuntu focal/main amd64 libmpc3 amd64 1.1.0-1 [40.8 kB]
Get:29 http://archive.ubuntu.com/ubuntu focal/main amd64 libquadmath0 amd64 2.34-6ubuntu1 [150 kB]
Get:30 http://archive.ubuntu.com/ubuntu focal/main amd64 libc6-dev amd64 2.34-6ubuntu1 [2609 kB]
Get:31 http://archive.ubuntu.com/ubuntu focal/main amd64 libcrypt-dev amd64 1:4.4.1-1 [112 kB]
Fetched 38.7 MB in 10s (3870 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../binutils-common_2.34-6ubuntu1_amd64.deb ...
Unpacking binutils-common (2.34-6ubuntu1) ...
Selecting previously unselected package binutils-x86-64-linux-gnu.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../binutils-x86-64-linux-gnu_2.34-6ubuntu1_amd64.deb ...
Unpacking binutils-x86-64-linux-gnu (2.34-6ubuntu1) ...
Selecting previously unselected package binutils.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../binutils_2.34-6ubuntu1_amd64.deb ...
Unpacking binutils (2.34-6ubuntu1) ...
Selecting previously unselected package cpp-9.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../cpp-9_9.3.0-10ubuntu2_amd64.deb ...
Unpacking cpp-9 (9.3.0-10ubuntu2) ...
Selecting previously unselected package cpp.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../cpp_9.3.0-10ubuntu2_amd64.deb ...
Unpacking cpp (9.3.0-10ubuntu2) ...
Selecting previously unselected package g++-9.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../g++-9_9.3.0-10ubuntu2_amd64.deb ...
Unpacking g++-9 (9.3.0-10ubuntu2) ...
Selecting previously unselected package g++.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../g++_9.3.0-10ubuntu2_amd64.deb ...
Unpacking g++ (9.3.0-10ubuntu2) ...
Selecting previously unselected package gcc-9-base.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../gcc-9-base_9.3.0-10ubuntu2_amd64.deb ...
Unpacking gcc-9-base (9.3.0-10ubuntu2) ...
Selecting previously unselected package gcc-9.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../gcc-9_9.3.0-10ubuntu2_amd64.deb ...
Unpacking gcc-9 (9.3.0-10ubuntu2) ...
Selecting previously unselected package gcc.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../gcc_9.3.0-10ubuntu2_amd64.deb ...
Unpacking gcc (9.3.0-10ubuntu2) ...
Selecting previously unselected package libasan5.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libasan5_9.3.0-10ubuntu2_amd64.deb ...
Unpacking libasan5 (9.3.0-10ubuntu2) ...
Selecting previously unselected package libatomic1.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libatomic1_9.3.0-10ubuntu2_amd64.deb ...
Unpacking libatomic1 (9.3.0-10ubuntu2) ...
Selecting previously unselected package libbinutils.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libbinutils_2.34-6ubuntu1_amd64.deb ...
Unpacking libbinutils (2.34-6ubuntu1) ...
Selecting previously unselected package libc-dev-bin.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libc-dev-bin_2.34-6ubuntu1_amd64.deb ...
Unpacking libc-dev-bin (2.34-6ubuntu1) ...
Selecting previously unselected package libc6-dev.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libc6-dev_2.34-6ubuntu1_amd64.deb ...
Unpacking libc6-dev (2.34-6ubuntu1) ...
Selecting previously unselected package libc6-i386.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libc6-i386_2.34-6ubuntu1_amd64.deb ...
Unpacking libc6-i386 (2.34-6ubuntu1) ...
Selecting previously unselected package libcrypt-dev.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libcrypt-dev_1%3A4.4.1-1_amd64.deb ...
Unpacking libcrypt-dev (1:4.4.1-1) ...
Selecting previously unselected package libctf-nobfd0.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libctf-nobfd0_2.34-6ubuntu1_amd64.deb ...
Unpacking libctf-nobfd0 (2.34-6ubuntu1) ...
Selecting previously unselected package libctf0.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libctf0_2.34-6ubuntu1_amd64.deb ...
Unpacking libctf0 (2.34-6ubuntu1) ...
Selecting previously unselected package libgcc-9-dev.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libgcc-9-dev_9.3.0-10ubuntu2_amd64.deb ...
Unpacking libgcc-9-dev (9.3.0-10ubuntu2) ...
Selecting previously unselected package libgomp1.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libgomp1_9.3.0-10ubuntu2_amd64.deb ...
Unpacking libgomp1 (9.3.0-10ubuntu2) ...
Selecting previously unselected package libisl22.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libisl22_0.22.1-1_amd64.deb ...
Unpacking libisl22 (0.22.1-1) ...
Selecting previously unselected package libitm1.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libitm1_9.3.0-10ubuntu2_amd64.deb ...
Unpacking libitm1 (9.3.0-10ubuntu2) ...
Selecting previously unselected package liblsan0.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../liblsan0_9.3.0-10ubuntu2_amd64.deb ...
Unpacking liblsan0 (9.3.0-10ubuntu2) ...
Selecting previously unselected package libmpc3.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libmpc3_1.1.0-1_amd64.deb ...
Unpacking libmpc3 (1.1.0-1) ...
Selecting previously unselected package libquadmath0.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libquadmath0_2.34-6ubuntu1_amd64.deb ...
Unpacking libquadmath0 (2.34-6ubuntu1) ...
Selecting previously unselected package libstdc++-9-dev.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libstdc++-9-dev_9.3.0-10ubuntu2_amd64.deb ...
Unpacking libstdc++-9-dev (9.3.0-10ubuntu2) ...
Selecting previously unselected package libtsan0.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libtsan0_9.3.0-10ubuntu2_amd64.deb ...
Unpacking libtsan0 (9.3.0-10ubuntu2) ...
Selecting previously unselected package libubsan1.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../libubsan1_9.3.0-10ubuntu2_amd64.deb ...
Unpacking libubsan1 (9.3.0-10ubuntu2) ...
Selecting previously unselected package linux-libc-dev.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../linux-libc-dev_5.15.0-10ubuntu10_amd64.deb ...
Unpacking linux-libc-dev (5.15.0-10ubuntu10) ...
Selecting previously unselected package manpages-dev.
(Reading database ... 123456789 files and directories currently installed.)
Preparing to unpack .../manpages-dev_4.14-2ubuntu1_all.deb ...
Unpacking manpages-dev (4.14-2ubuntu1) ...
Setting up binutils-common (2.34-6ubuntu1) ...
Setting up binutils-x86-64-linux-gnu (2.34-6ubuntu1) ...
Setting up binutils (2.34-6ubuntu1) ...
Setting up cpp-9 (9.3.0-10ubuntu2) ...
Setting up cpp (9.3.0-10ubuntu2) ...
Setting up g++-9 (9.3.0-10ubuntu2) ...
Setting up g++ (9.3.0-10ubuntu2) ...
Setting up gcc-9-base (9.3.0-10ubuntu2) ...
Setting up gcc-9 (9.3.0-10ubuntu2) ...
Setting up gcc (9.3.0-10ubuntu2) ...
Setting up libasan5 (9.3.0-10ubuntu2) ...
Setting up libatomic1 (9.3.0-10ubuntu2) ...
Setting up libbinutils (2.34-6ubuntu1) ...
Setting up libc-dev-bin (2.34-6ubuntu1) ...
Setting up libc6-dev (2.34-6ubuntu1) ...
Setting up libc6-i386 (2.34-6ubuntu1) ...
Setting up libcrypt-dev (1:4.4.1-1) ...
Setting up libctf-nobfd0 (2.34-6ubuntu1) ...
Setting up libctf0 (2.34-6ubuntu1) ...
Setting up libgcc-9-dev (9.3.0-10ubuntu2) ...
Setting up libgomp1 (9.3.0-10ubuntu2) ...
Setting up libisl22 (0.22.1-1) ...
Setting up libitm1 (9.3.0-10ubuntu2) ...
Setting up liblsan0 (9.3.0-10ubuntu2) ...
Setting up libmpc3 (1.1.0-1) ...
Setting up libquadmath0 (2.34-6ubuntu1) ...
Setting up libstdc++-9-dev (9.3.0-10ubuntu2) ...
Setting up libtsan0 (9.3.0-10ubuntu2) ...
Setting up libubsan1 (9.3.0-10ubuntu2) ...
Setting up linux-libc-dev (5.15.0-10ubuntu10) ...
Setting up manpages-dev (4.14-2ubuntu1) ...
root@DESKTOP-Kyungsik:~#
```

(11) vim 설치를 위해 “apt-get -y install vim” 입력(이미 설치되었을 수도 있음)

```
root@DESKTOP-Kyungsik ~
root@DESKTOP-Kyungsik:~# apt-get -y install vim
Reading package lists... Done
Building dependency tree
Reading state information... Done
vim is already the newest version (2:8.1.2269-1ubuntu5).
vim set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 79 not upgraded.
root@DESKTOP-Kyungsik:~#
```

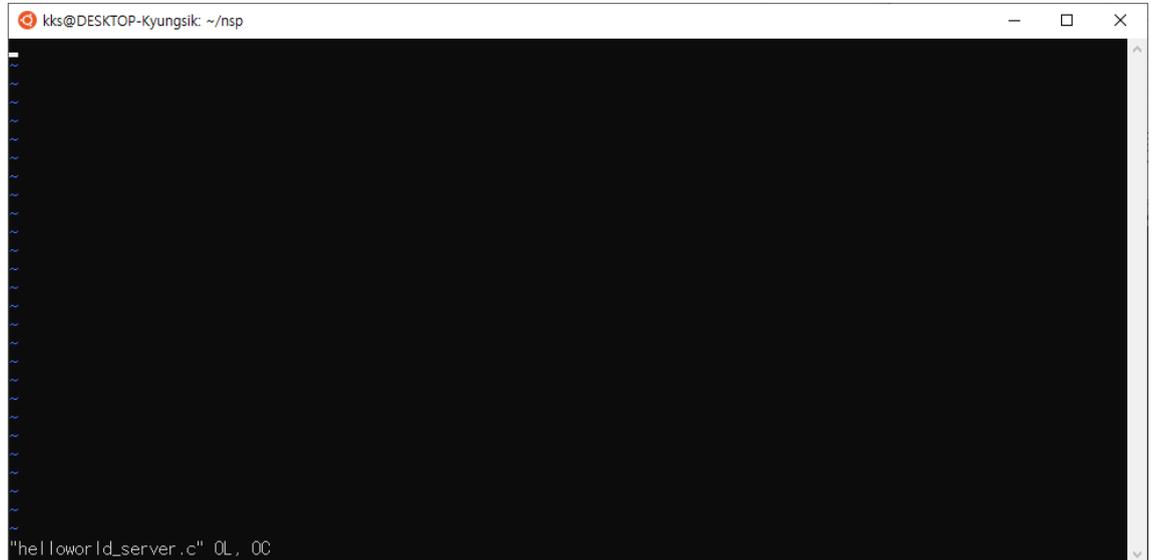
(12) “su 사용자명”을 입력하여 root 권한 나가기(사용자명: (7)에서 입력한 username)

```
kks@DESKTOP-Kyungsik: /root
root@DESKTOP-Kyungsik:~# su kks
kks@DESKTOP-Kyungsik:~#
kks@DESKTOP-Kyungsik:~#
kks@DESKTOP-Kyungsik:~#
```

2.2 Ubuntu에서 vim을 사용한 소스코드 작성 방법

(1) Terminal에서 “vim 파일명” 입력하여 파일 생성

```
kks@DESKTOP-Kyungsik: ~/nsp$ vim helloworld_server.c
```



```
"helloworld_server.c" 0L, 0C
```

(2) vim 기초 사용법 정리 링크: <https://www.morenice.kr/25>

vim에서 “i”를 누르면 편집 모드, 내용 입력 후 esc 누르고 “:wq”를 입력하여 저장 후 종료[4]

(3) 컴파일: gcc -o <실행파일 이름><소스코드 파일명>

```
kks@DESKTOP-Kyungsik: ~/nsp$ vim helloworld_server.c
kks@DESKTOP-Kyungsik: ~/nsp$ gcc -o helloworld_server helloworld_server.c
```

3. 결론

지금까지 본 고에서는 WSL(Windows Subsystem for Linux)의 설치 과정, 환경 설정 및 간단한 vim 사용법에 대해 알아보았다. 네트워크 프로그래밍 강의의 시작이 되는 내용이며 반드시 확인하고 넘어가길 바란다.

참고 문헌

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