

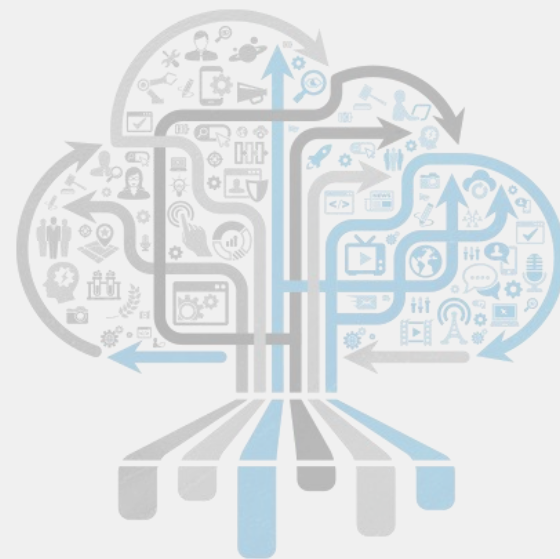
(Operating System) Practice -2-

Linux Basic Commands



Index

- I. Linux Basic Commands
- II. Visual Studio Code 설치



Linux Basic Commands

- **ls**

- **ls** → 현재 Directory의 파일목록 출력

Option	Description
-l	파일목록을 상세히 출력함 (Long → 더 길게 출력)
-a	숨김 파일을 포함한 Directory 내 모든 파일목록을 출력함 (All → 모두 출력)
-1	라인당 한 파일씩 보여줌
-R	현재 Directory에 포함된 모든 하위 Directory 및 파일을 출력

Example

```
unbuntu-pc@unbuntupc-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
```

Linux Basic Commands

- **mkdir & rmdir**

- `mkdir[directory name]` → 새 directory 생성
- `rmdir[directory name]` → directory 삭제

Example

```
unbuntu-pc@unbuntupc-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
unbuntu-pc@unbuntupc-VirtualBox:~$ mkdir test
unbuntu-pc@unbuntupc-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public Templates test Videos
unbuntu-pc@unbuntupc-VirtualBox:~$ rmdir test
unbuntu-pc@unbuntupc-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
```

Linux Basic Commands

- **cd**

- `cd[directory name]` → 해당 Directory로 이동
- `cd ..` → 상위 Directory로 이동
- `cd /` → 최상위 Directory로 이동
- `cd ~` 혹은 `cd $home` → 사용자 Home Directory로 이동
- `cd -` → 이전 Directory로 이동

Example

```
unbuntu-pc@unbuntupc-VirtualBox:~$ cd Desktop
unbuntu-pc@unbuntupc-VirtualBox:~/Desktop$ cd ..
unbuntu-pc@unbuntupc-VirtualBox:~$ cd /
unbuntu-pc@unbuntupc-VirtualBox:/$ ls
bin    dev    lib    libx32  mnt    root   snap    sys    var
boot   etc    lib32  lost+found  opt    run    srv      tmp
cdrom  home  lib64  media   proc   sbin   swapfile  usr
unbuntu-pc@unbuntupc-VirtualBox:/$ cd ~
unbuntu-pc@unbuntupc-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
unbuntu-pc@unbuntupc-VirtualBox:~$ cd -
/
unbuntu-pc@unbuntupc-VirtualBox:/$ ls
bin    dev    lib    libx32  mnt    root   snap    sys    var
boot   etc    lib32  lost+found  opt    run    srv      tmp
cdrom  home  lib64  media   proc   sbin   swapfile  usr
```

Linux Basic Commands

- **표준출력 & 표준입력 & cat**

- `[command] > [filename]` → 명령어의 결과를 파일로 저장
- `[command] >> [filename]` → 명령어의 결과를 파일에 추가
- `[command] < [filename]` → 파일 데이터를 명령어에 입력
- `cat < [filename]` 혹은 `cat [filename]` → 파일내용을 모니터에 출력

Example

```
unbuntu-pc@unbuntupc-VirtualBox:~$ ls > ls.txt
unbuntu-pc@unbuntupc-VirtualBox:~$ cat < ls.txt
Desktop
Documents
Downloads
ls.txt
Music
Pictures
Public
Templates
Videos
```

```
unbuntu-pc@unbuntupc-VirtualBox:~$ ls -l >> ls.txt
unbuntu-pc@unbuntupc-VirtualBox:~$ cat ls.txt
Desktop
Documents
Downloads
ls.txt
Music
Pictures
Public
Templates
Videos
16492 Desktop
16496 Documents
16493 Downloads
11377 ls.txt
16497 Music
16498 Pictures
16495 Public
16494 Templates
16499 Videos
unbuntu-pc@unbuntupc-VirtualBox:~$
```

Linux Basic Commands

- **cp**

- `cp [원본filename] [새로운 filename]` → 파일 또는 디렉토리 복사

Option	Description
-f	동일한 파일명이 있는 경우 덮어쓰기
-i	동일한 파일명이 있는 경우 덮어쓰기 할 것인지 사용자에게 확인

Example

```
ubuntu-pc@ubuntu-pc-VirtualBox:~$ ls
Desktop  Downloads  Music      Public     Videos
Documents  ls.txt    Pictures  Templates
ubuntu-pc@ubuntu-pc-VirtualBox:~$ cp ls.txt copy.txt
ubuntu-pc@ubuntu-pc-VirtualBox:~$ cp ls.txt copy.txt -f
ubuntu-pc@ubuntu-pc-VirtualBox:~$ ls
copy.txt  Documents  ls.txt  Pictures  Templates
Desktop  Downloads  Music   Public    Videos
ubuntu-pc@ubuntu-pc-VirtualBox:~$ cp ls.txt copy.txt -i
cp: overwrite 'copy.txt'? y
ubuntu-pc@ubuntu-pc-VirtualBox:~$
```

Linux Basic Commands

- **rm**

- **rm [filename]** → 해당 파일 삭제
- **rm *** → 모든 파일 삭제
- **rm *.확장자명** → 해당 확장자명을 갖은 모든 삭제

Option	Description
-f	강제로 파일 혹은 Directory 삭제
-v	삭제되는 파일 정보 출력

Example

```
ubuntu-pc@ubuntu-pc-VirtualBox:~$ ls
copy.txt  Documents  ls.txt  Pictures  Templates
Desktop   Downloads  Music   Public    Videos
ubuntu-pc@ubuntu-pc-VirtualBox:~$ rm copy.txt
ubuntu-pc@ubuntu-pc-VirtualBox:~$ rm ls.txt
ubuntu-pc@ubuntu-pc-VirtualBox:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos
ubuntu-pc@ubuntu-pc-VirtualBox:~$
```


Linux Basic Commands

- **mv**

- `mv [filename] [directory]` → 해당 파일을 해당 Directory로 옮김
- `mv [filename] [새로운 filename]` → 해당 파일의 파일명을 변경

Option	Description
-f	덮어쓰기 옵션
-i	덮어쓰기 할 것인지 사용자에게 확인
-v	이동상태 출력

Example

```
unbuntu-pc@unbuntupc-VirtualBox:~$ mv ls.txt test1
unbuntu-pc@unbuntupc-VirtualBox:~$ ls
Desktop  Downloads  Music      Public     test1  Videos
Documents ls_copy.txt Pictures   Templates  test2
unbuntu-pc@unbuntupc-VirtualBox:~$ ls
Desktop  Downloads  Music      Public     test1  Videos
Documents ls_copy.txt Pictures   Templates  test2
unbuntu-pc@unbuntupc-VirtualBox:~$ mv ls_copy.txt ls.txt
unbuntu-pc@unbuntupc-VirtualBox:~$ ls
Desktop  Downloads  Music      Public     test1  Videos
Documents ls.txt     Pictures   Templates  test2
unbuntu-pc@unbuntupc-VirtualBox:~$
```

Linux Basic Commands

- **pwd & tree**

- **pwd** → 현재 Directory 표시
- **tree** → 파일 및 디렉토리 구조 트리형태로 확인 (설치필요)

Example

```
unbuntu-pc@unbuntupc-VirtualBox:~$ pwd
/home/unbuntu-pc
```

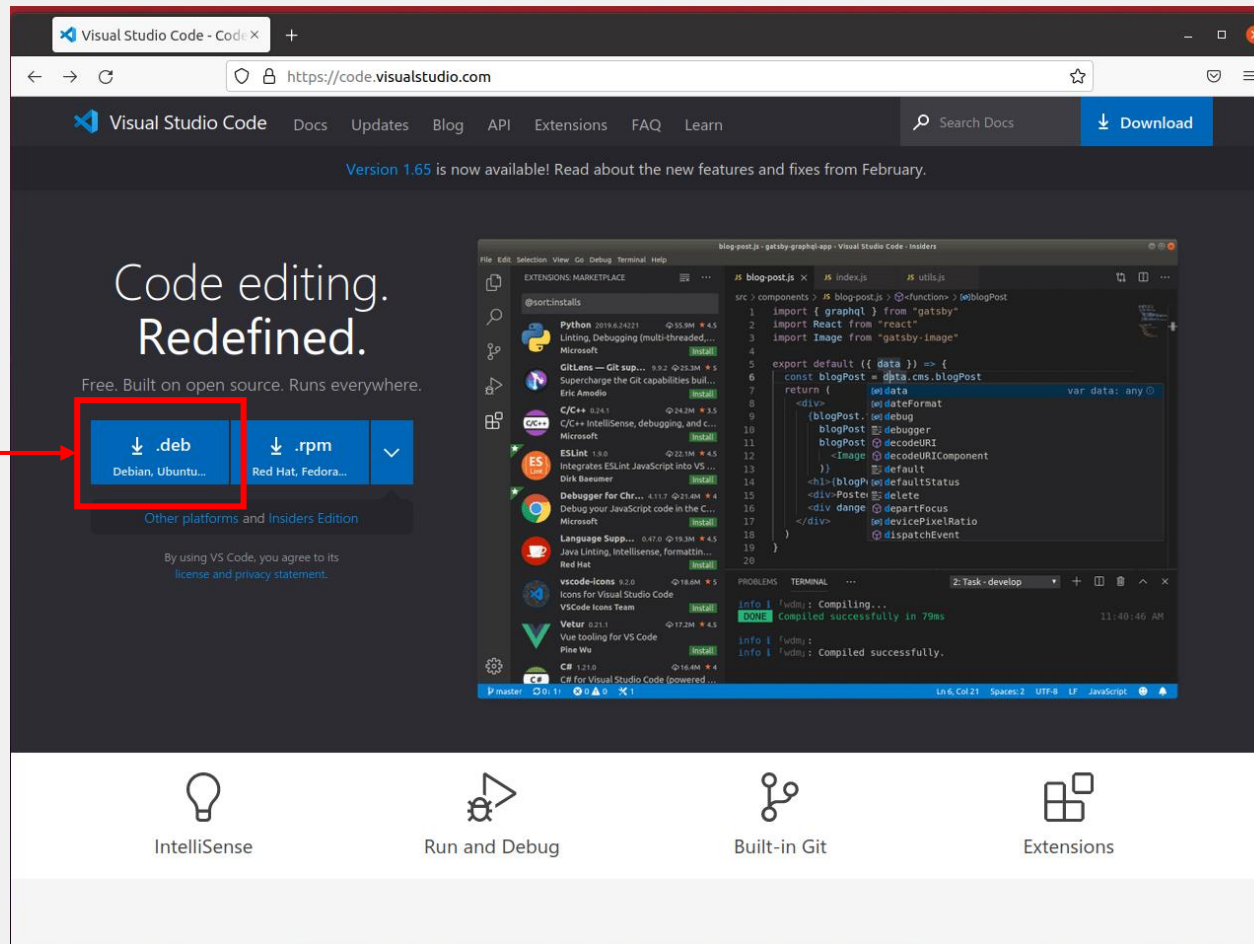
```
unbuntu-pc@unbuntupc-VirtualBox:~$ sudo apt install tree
[sudo] password for unbuntu-pc:
Sorry, try again.
[sudo] password for unbuntu-pc:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  tree
0 upgraded, 1 newly installed, 0 to remove and 82 not upgraded.
Need to get 43.0 kB of archives.
After this operation, 115 kB of additional disk space will be used.
Get:1 http://kr.archive.ubuntu.com/ubuntu focal/universe amd64 tree amd64 1.8.0-1 [43.0 kB]
Fetched 43.0 kB in 1s (37.9 kB/s)
Selecting previously unselected package tree.
(Reading database ... 177759 files and directories currently installed.)
Preparing to unpack .../tree_1.8.0-1_amd64.deb ...
Unpacking tree (1.8.0-1) ...
Setting up tree (1.8.0-1) ...
Processing triggers for man-db (2.9.1-1) ...
unbuntu-pc@unbuntupc-VirtualBox:~$ tree
.
├── Desktop
├── Documents
├── Downloads
├── ls.txt
├── Music
├── Pictures
├── Public
├── Templates
├── test1
│   └── ls.txt
├── test2
└── Videos

10 directories, 2 files
```

Visual Studio Code 설치

- VS Code 설치
 - Web을 통해 다운로드

다운로드



Visual Studio Code 설치

- VS Code 설치
 - Terminal에서 설치

```
unbuntu-pc@unbuntupc-VirtualBox:~$ ls
Desktop Documents Downloads ls.txt Music Pictures Public snap Templates test1 test2 Videos
unbuntu-pc@unbuntupc-VirtualBox:~$ cd Downloads
unbuntu-pc@unbuntupc-VirtualBox:~/Downloads$ ls
code_1.65.2-1646927742_amd64.deb
unbuntu-pc@unbuntupc-VirtualBox:~/Downloads$ sudo apt install ./code_1.65.2-1646927742_amd64.deb
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'code' instead of './code_1.65.2-1646927742_amd64.deb'
The following NEW packages will be installed:
  code
0 upgraded, 1 newly installed, 0 to remove and 82 not upgraded.
After this operation, 329 MB of additional disk space will be used.
Get:1 /home/unbuntu-pc/Downloads/code_1.65.2-1646927742_amd64.deb code amd64 1.65.2-1646927742 [78.5 MB]
Selecting previously unselected package code.
(Reading database ... 177766 files and directories currently installed.)
Preparing to unpack .../code_1.65.2-1646927742_amd64.deb ...
Unpacking code (1.65.2-1646927742) ...
Setting up code (1.65.2-1646927742) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for shared-mime-info (1.15-1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
W: Repository is broken: code:amd64 (= 1.65.2-1646927742) has no Size information
```

Visual Studio Code 설치

- VS Code 설치
 - 실행확인 (명령어 → code)

```
ubuntu-pc@unbuntupc-VirtualBox:~/Downloads$ code
ubuntu-pc@unbuntupc-VirtualBox:~/Downloads$
```

