

Computer Architecture & Real-Time Operating System

T1. WSL 2 설치

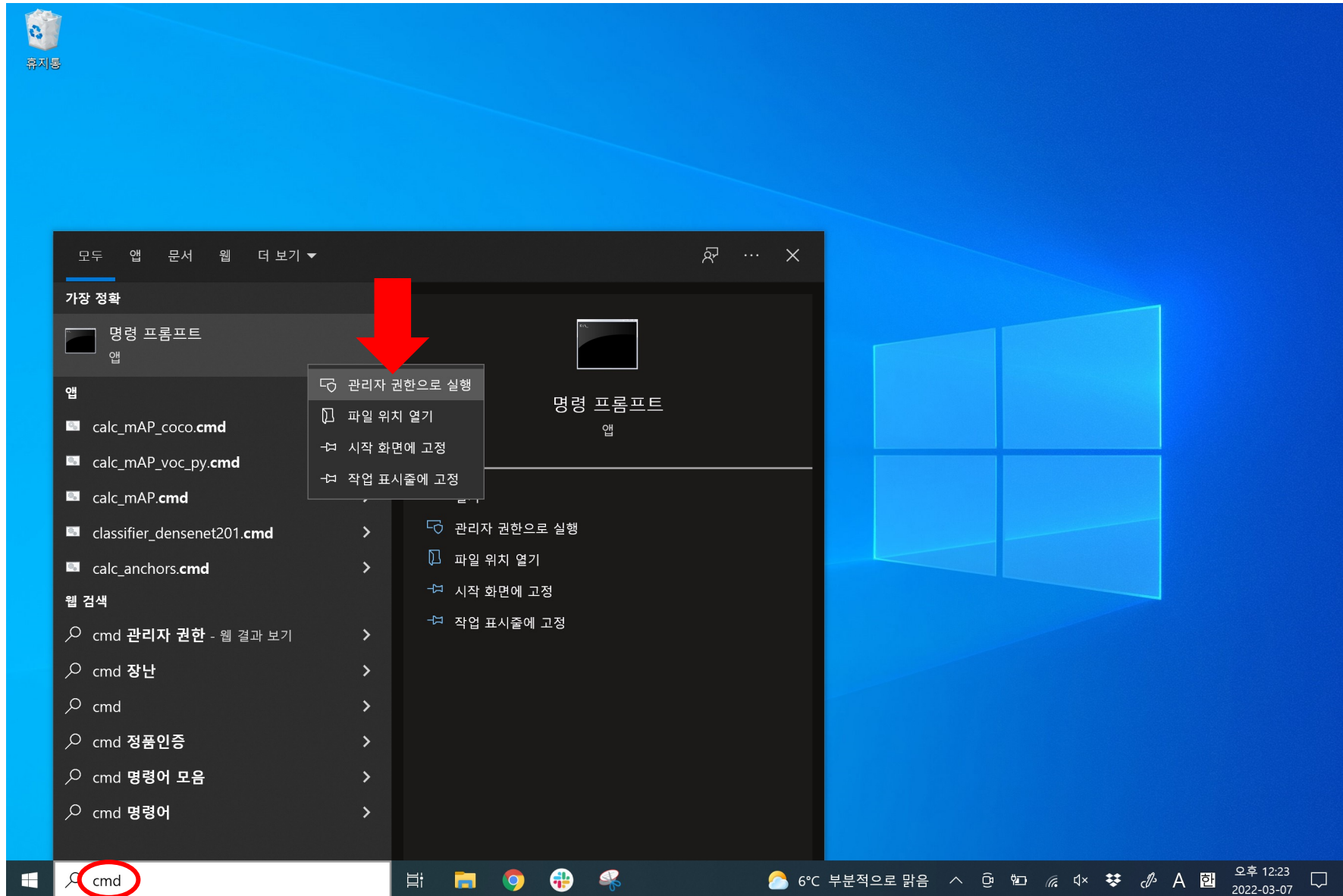
Prof. Jong-Chan Kim

Dept. Automobile and IT Convergence

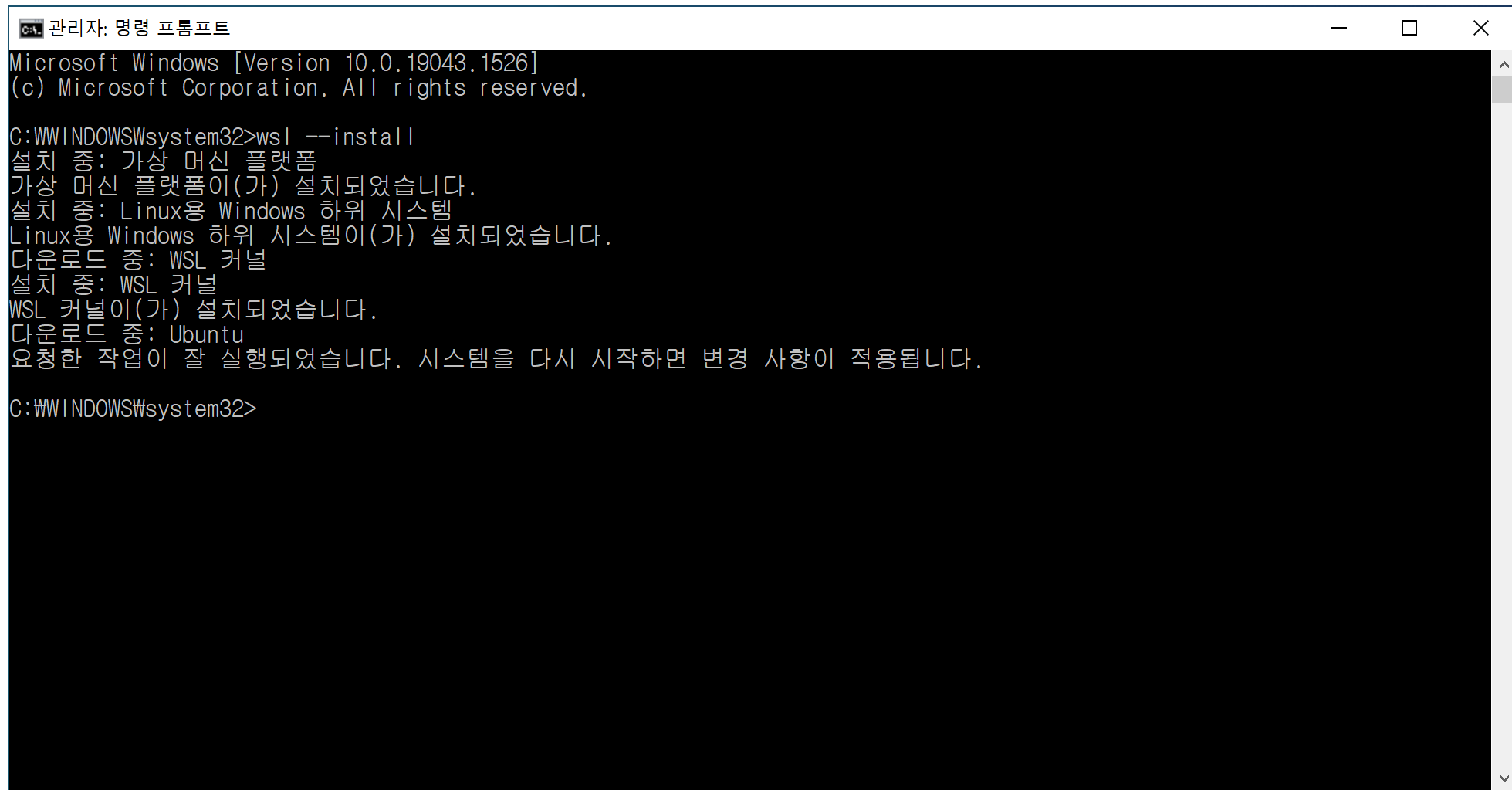


국민대학교
KOOKMIN UNIVERSITY

관리자 권한으로 CMD 실행



WSL 2 설치 후 재부팅



```
관리자: 명령 프롬프트
Microsoft Windows [Version 10.0.19043.1526]
(c) Microsoft Corporation. All rights reserved.

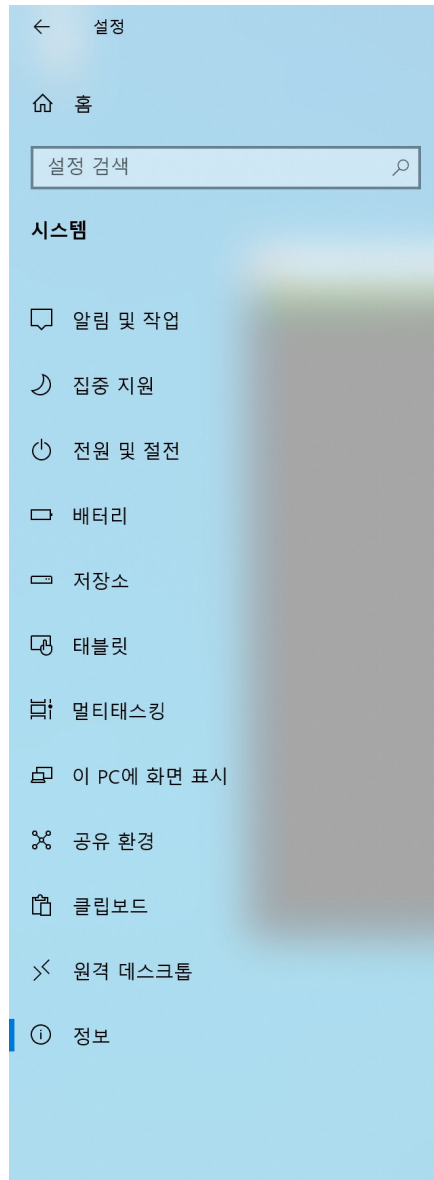
C:\WINDOWS\system32>wsl --install
설치 중: 가상 머신 플랫폼
가상 머신 플랫폼이(가) 설치되었습니다.
설치 중: Linux용 Windows 하위 시스템
Linux용 Windows 하위 시스템이(가) 설치되었습니다.
다운로드 중: WSL 커널
설치 중: WSL 커널
WSL 커널이(가) 설치되었습니다.
다운로드 중: Ubuntu
요청한 작업이 잘 실행되었습니다. 시스템을 다시 시작하면 변경 사항이 적용됩니다.

C:\WINDOWS\system32>
```

우분투 리눅스 계정 등록 및 패키지 업데이트

```
jongchank@DESKTOP-CNGUQJ9: ~  
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: jongchank  
New password:  
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 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 Mon Mar  7 11:49:21 KST 2022  
  
System load:  0.19           Processes:            8  
Usage of /:   0.4% of 250.98GB Users logged in:       0  
Memory usage: 1%           IPv4 address for eth0: 172.19.236.143  
Swap usage:   0%  
  
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  
/home/jongchank/.hushlogin file.  
jongchank@DESKTOP-CNGUQJ9:~$ sudo apt update; sudo apt upgrade; sudo apt install vim gcc
```

PC 이름 수정 (optional)



정보

PC가 모니터링되고 보호됩니다.

자세한 내용은 [Windows 보안을 참조하세요](#).

장치 사양

장치 이름	DESKTOP-CNGUQJ9
프로세서	Intel(R) Core(TM) i5-7300U CPU @ 2.60GHz 2.71 GHz
설치된 RAM	8.00GB
장치 ID	7457C49F-BEAA-4EE9-B984-AAD3AEBD1B9B
제품 ID	00330-62917-71385-AAOEM
시스템 종류	64비트 운영 체제, x64 기반 프로세서
펜 및 터치	이 PC는 터치 또는 스타일러스를 지원하지 않습니다.

복사

이 PC의 이름 바꾸기

Windows 사양

에디션	Windows 10 Pro
버전	21H1
설치 날짜	2021-12-21
OS 빌드	19043.1526
일련 번호	082329472453
경험	Windows Feature Experience Pack 120.2212.4170.0

복사

제품 키 변경 또는 [Windows 버전 업그레이드](#)

서비스에 필요한 [Microsoft 서비스 계약](#) 보기

관련 설정

[BitLocker 설정](#)

[장치 관리자](#)

[원격 데스크톱](#)

[시스템 보호](#)

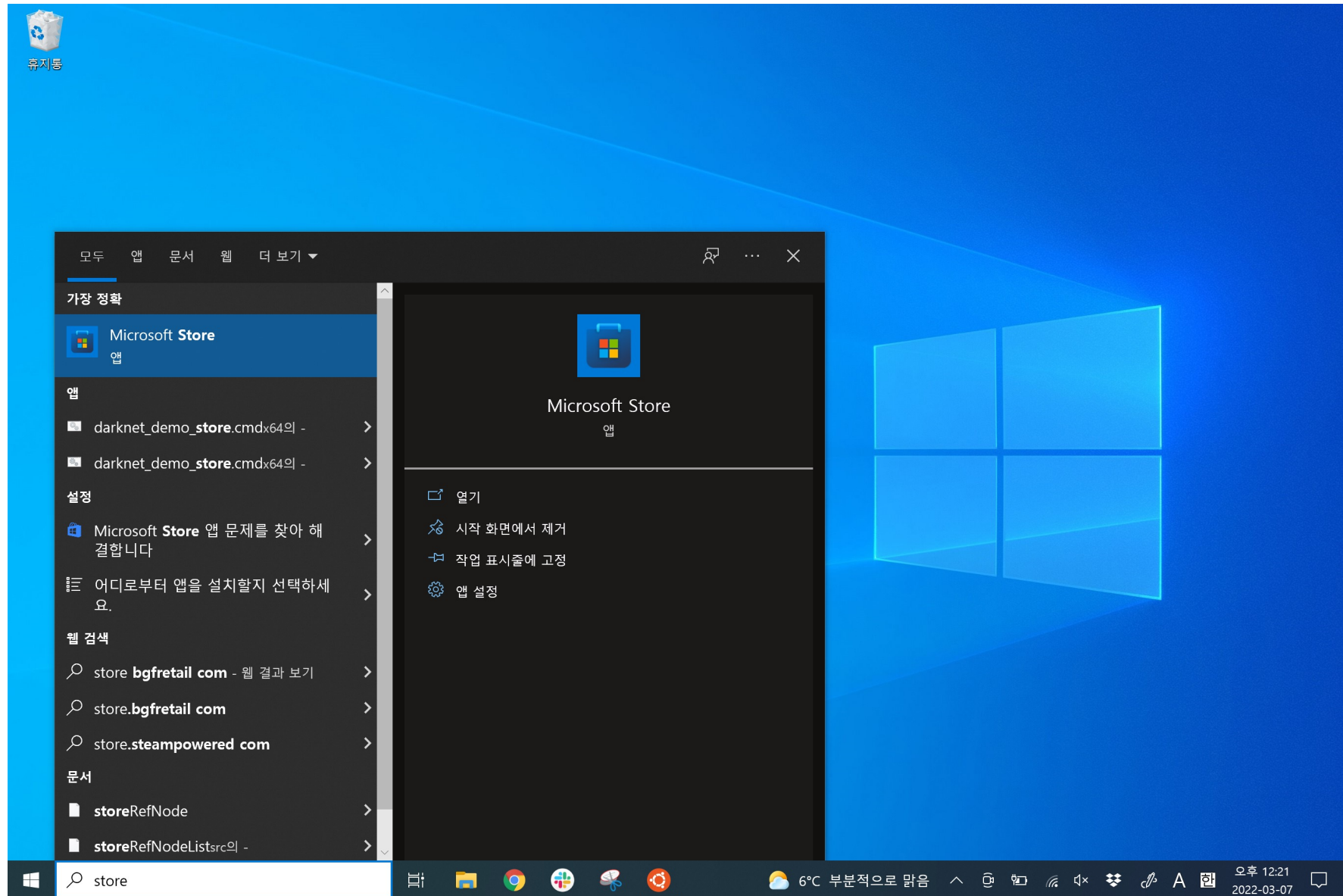
[고급 시스템 설정](#)

[이 PC의 이름 바꾸기\(고급\)](#)

[도움말 보기](#)

[피드백 보내기](#)

Microsoft Store 실행



Windows Terminal 설치 후 실행

←

Microsoft Store

앱, 게임, 영화 등 검색

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앱

🎮


게임

📖

라이브러리

?

도움말



Windows Terminal

Microsoft Corporation

4.7 ⭐

81

ARC 3+

3+ 연령별 등급: IARC: 3+

Windows 터미널은 명령 프롬프트, PowerShell 및 WSL과 같은 명령 줄 도구 및 셸 사용자를 위한 최신의 빠르고 효율적이며 강력한 생산성의 터미널...

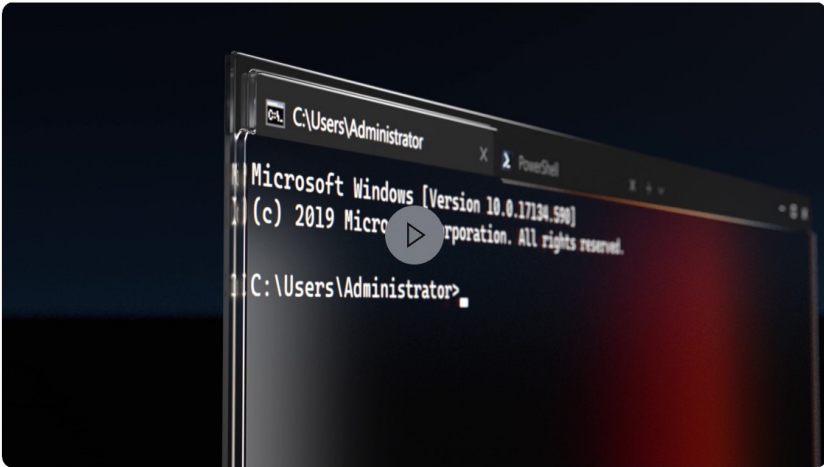
개발자 도구

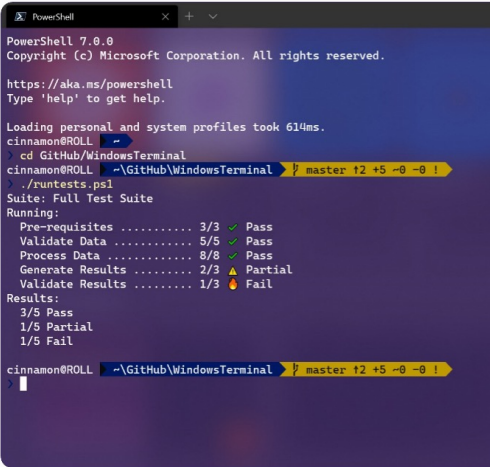
열기

🔗

스크린샷

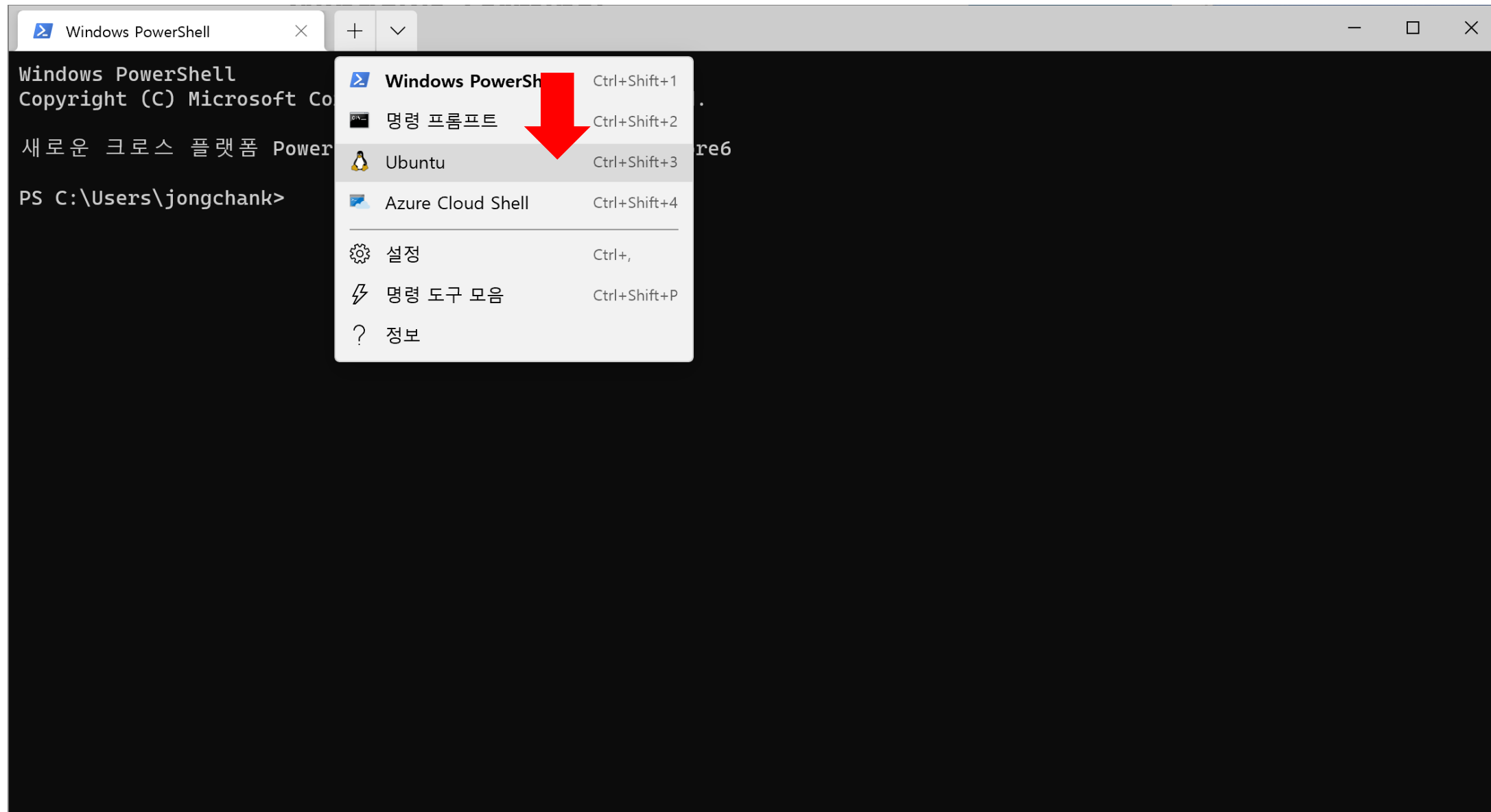
➤



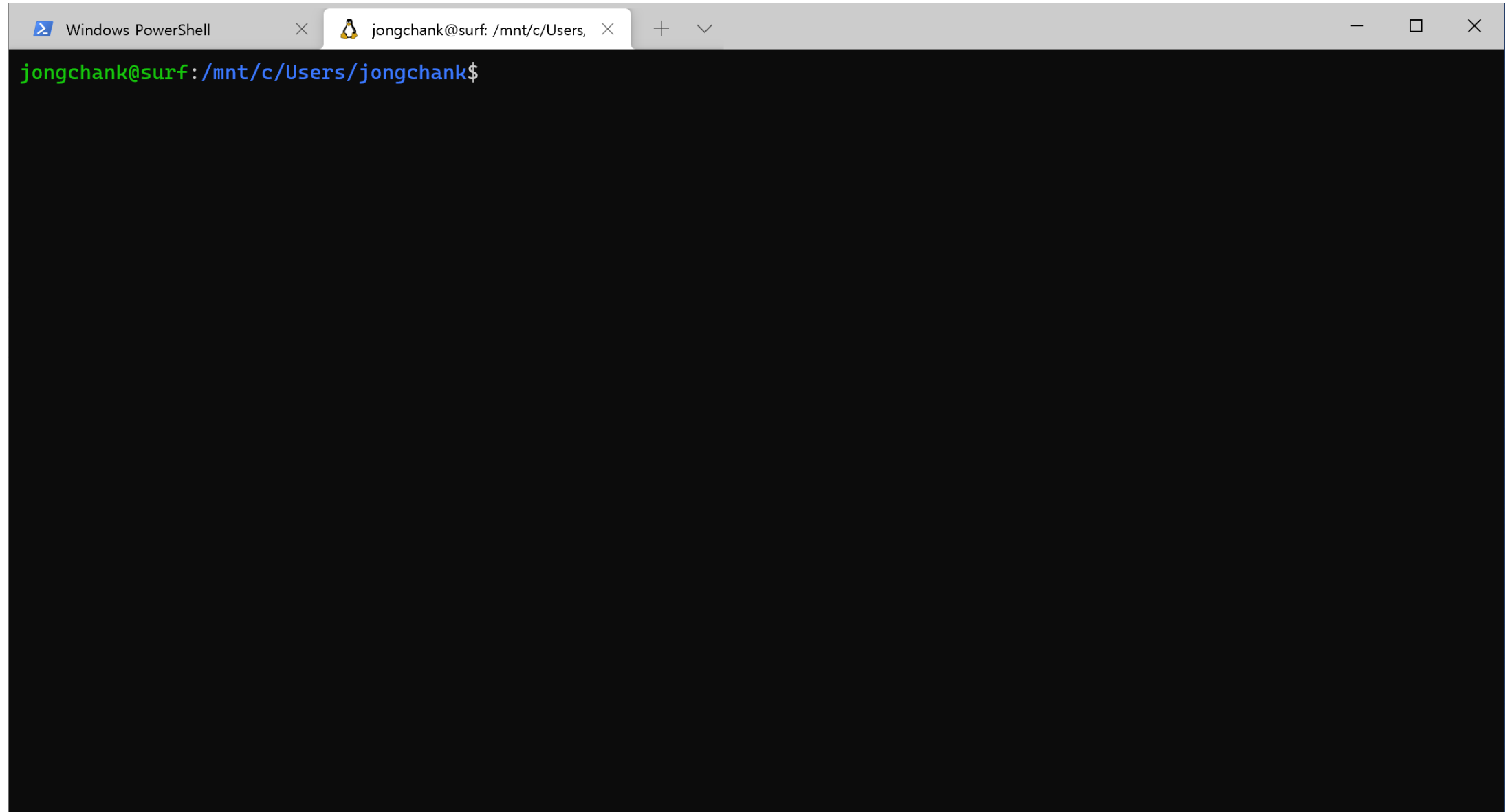


설명

우분투 창 새로 실행



우분투 리눅스 초기 화면

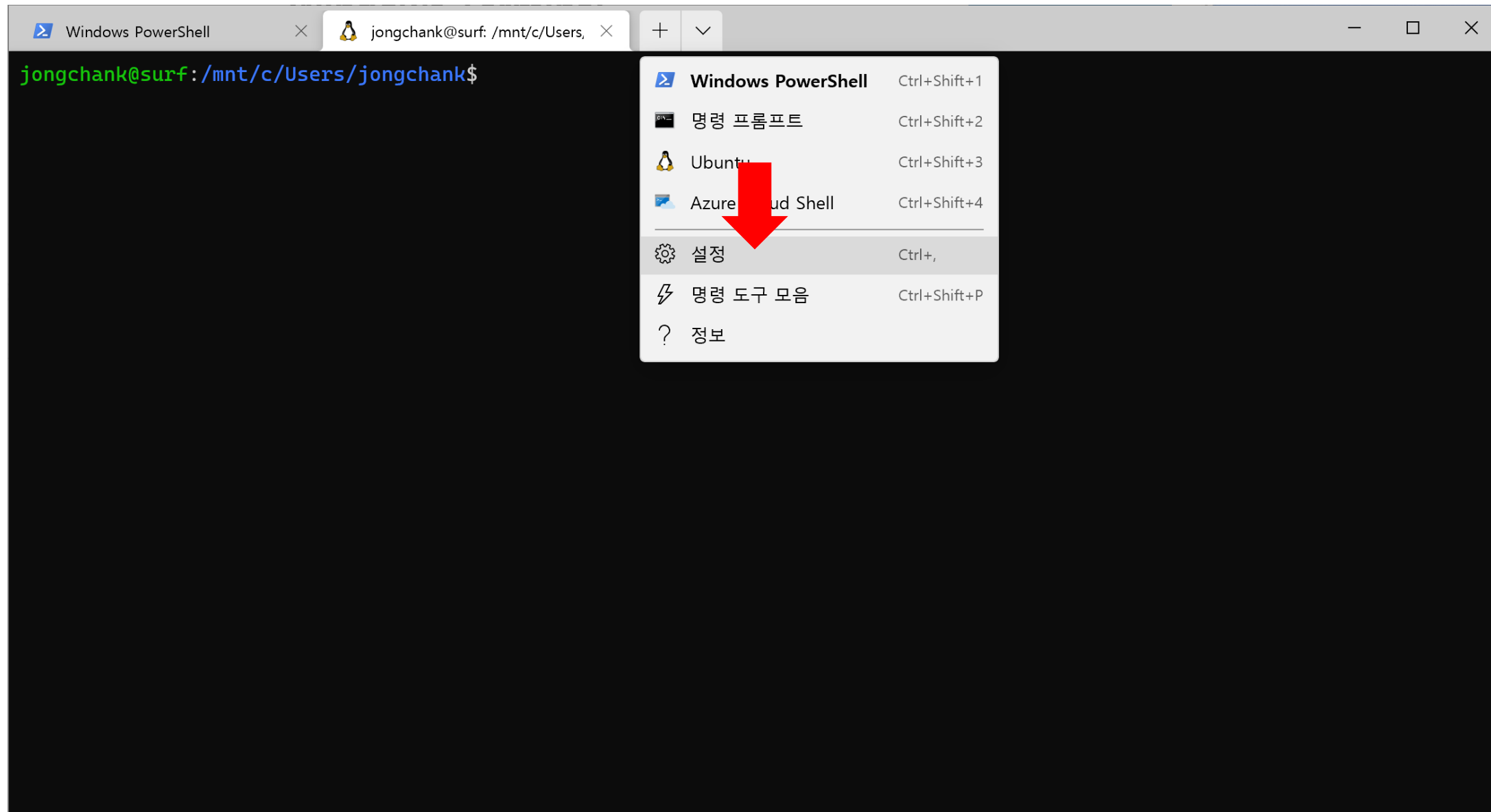


The image shows a terminal window with a light gray title bar. The title bar contains two tabs: 'Windows PowerShell' and 'jongchank@surf: /mnt/c/Users, ' with a close button on the right. The terminal area has a black background. The prompt 'jongchank@surf:/mnt/c/Users/jongchank\$' is displayed in green and blue text at the top left of the terminal area.

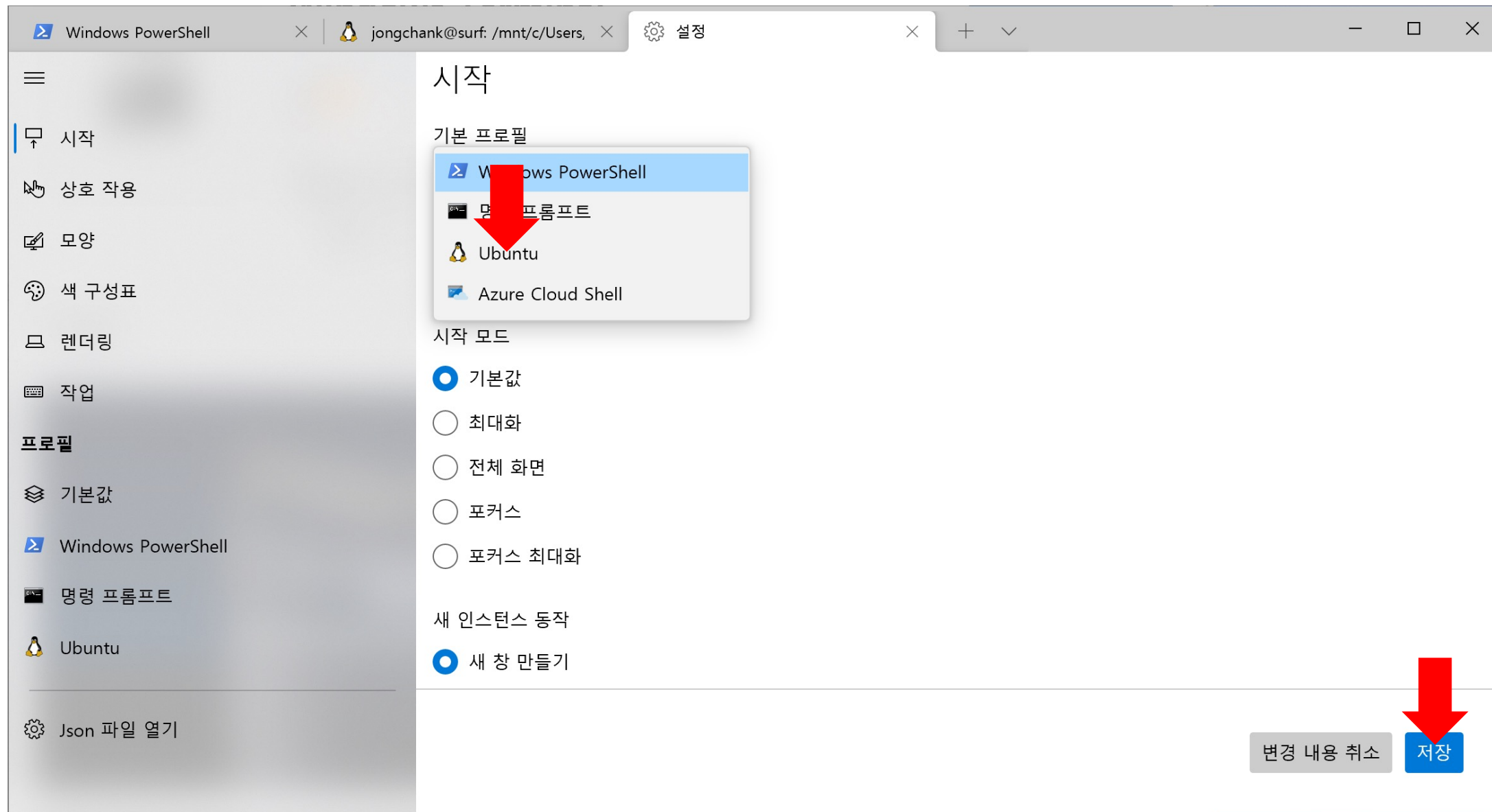
```
Windows PowerShell × jongchank@surf: /mnt/c/Users, × + -
```

```
jongchank@surf:/mnt/c/Users/jongchank$
```

설정



우분투 리눅스를 기본 프로필로



초기 설정 파일 다운로드

```
jongchank@surf: ~/wsl-config- × + ▾  
jongchank@surf:~/wsl-config-files$ wget https://raw.githubusercontent.com/jongchank/wsl-config-files/main/inputrc -O ~/.inputrc  
--2022-03-07 13:01:38-- https://raw.githubusercontent.com/jongchank/wsl-config-files/main/inputrc  
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133, 185.199.111.133, 185.199.108.133, ...  
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.110.133|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 20 [text/plain]  
Saving to: '/home/jongchank/.inputrc'  
  
/home/jongchank/.inputrc      100%[=====>]          20  --.-KB/s    in 0s  
  
2022-03-07 13:01:38 (252 KB/s) - '/home/jongchank/.inputrc' saved [20/20]  
  
jongchank@surf:~/wsl-config-files$ wget https://raw.githubusercontent.com/jongchank/wsl-config-files/main/vimrc -O ~/.vimrc  
--2022-03-07 13:02:02-- https://raw.githubusercontent.com/jongchank/wsl-config-files/main/vimrc  
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133, 185.199.111.133, 185.199.108.133, ...  
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.110.133|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 191 [text/plain]  
Saving to: '/home/jongchank/.vimrc'  
  
/home/jongchank/.vimrc      100%[=====>]          191  --.-KB/s    in 0s  
  
2022-03-07 13:02:02 (1.25 MB/s) - '/home/jongchank/.vimrc' saved [191/191]  
  
jongchank@surf:~/wsl-config-files$ |
```

Hello World 다운로드, 컴파일, 실행

```
jongchank@surf: /mnt/c/Users, × + ▾  
jongchank@surf:/mnt/c/Users/jongchank$ wget https://raw.githubusercontent.com/jongchank/wsl-config-files/main/hello.c  
--2022-03-07 13:05:48-- https://raw.githubusercontent.com/jongchank/wsl-config-files/main/hello.c  
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.108.133, 185.199.110.133, 185.199.111.133, ..  
.  
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.108.133|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 83 [text/plain]  
Saving to: 'hello.c'  
  
hello.c                100%[=====>]           83  --.-KB/s    in 0s  
  
2022-03-07 13:05:50 (211 KB/s) - 'hello.c' saved [83/83]  
  
jongchank@surf:/mnt/c/Users/jongchank$ gcc hello.c  
jongchank@surf:/mnt/c/Users/jongchank$ ./a.out  
Hello World!  
jongchank@surf:/mnt/c/Users/jongchank$
```

Questions

