

day2_deep pinky

1.2 pinky_violet ROS2 패키지 git clone

```
git clone https://github.com/pinklab-art/pinky_violet.git
```

```
[root@roastB-ubuntu24-04:~/pinky_ws 80x24] addineud@roastB-ubuntu24-04:~/pinky_ws 80x24
addineud@roastB-ubuntu24-04:~$ mkdir -p pinky_ws/src
addineud@roastB-ubuntu24-04:~$ cd pinky_ws/src/
addineud@roastB-ubuntu24-04:~/pinky_ws/src$ git clone https://github.com/pinklab-art/pinky_violet.git
Cloning into 'pinky_violet'...
remote: Enumerating objects: 651, done.
remote: Counting objects: 100% (47/47), done.
remote: Compressing objects: 100% (25/25), done.
remote: Total 651 (delta 34), reused 22 (delta 22), pack-reused 604 (from 1)
Receiving objects: 100% (651/651), 43.51 MiB | 19.63 MiB/s, done.
Resolving deltas: 100% (346/346), done.
```

```
addineud@roastB-ubuntu24-04:~/pinky_ws/src$ ls
pinky_violet
addineud@roastB-ubuntu24-04:~/pinky_ws/src$ cd pinky_violet/
addineud@roastB-ubuntu24-04:~/pinky_ws/src/pinky_violet$ ls
99-pinky_camera.rules    pinky_bringup      pinky_emotion     pinky_navigation
99-pinky_gpio.rules      pinky_cartographer  pinky_gazebo     README.md
doc                      pinky_description   pinky_interfaces
```

```
addineud@roastB-ubuntu24-04:~/pinky_ws$ colcon build
Starting >>> pinky_description
Starting >>> pinkyBringup
Starting >>> pinkyCartographer
Starting >>> pinkyEmotion
Starting >>> pinkyInterfaces
Starting >>> pinkyNavigation
--- stderr: pinky_description
CMake Error at CMakeLists.txt:9 (find_package):
  By not providing "Findament_cmake.cmake" in CMAKE_MODULE_PATH this project
  has asked CMake to find a package configuration file provided by
  "ament_cmake", but CMake did not find one.

  Could not find a package configuration file provided by "ament_cmake" with
  any of the following names:

    ament_cmakeConfig.cmake
    ament_cmake-config.cmake

  Add the installation prefix of "ament_cmake" to CMAKE_PREFIX_PATH or set
  "ament cmake DIR" to a directory containing one of the above files. If
```

```
addineud@roastB-ubuntu24-04:~/pinky_ws$ ros2ws
ROS_DOMAIN_ID is set to 52!
ROS2 Jazzy is activated!
ros2_ws is activated!
addineud@roastB-ubuntu24-04:~/pinky_ws$ colcon build
Starting >>> pinky_description
Starting >>> pinkyBringup
Starting >>> pinkyCartographer
Starting >>> pinkyEmotion
Starting >>> pinkyInterfaces
Starting >>> pinkyNavigation
Finished <<< pinky_description [0.55s]
Starting >>> pinkyGazebo
Finished <<< pinkyCartographer [0.68s]
Finished <<< pinkyGazebo [0.76s]
Finished <<< pinkyNavigation [1.44s]
Finished <<< pinkyBringup [1.88s]
Finished <<< pinkyEmotion [1.92s]
Finished <<< pinkyInterfaces [4.79s]
```

```
addineud@roastB-ubuntu24-04:~/pinky_ws$ sb
Bashrc is reloaded!
addineud@roastB-ubuntu24-04:~/pinky_ws$ pinky
ROS_DOMAIN_ID is set to 52!
ROS2 Jazzy is activated!
pinky_ws is activated!
```

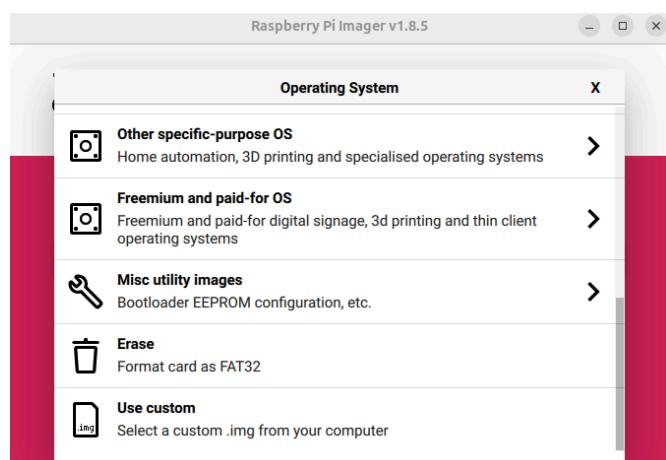
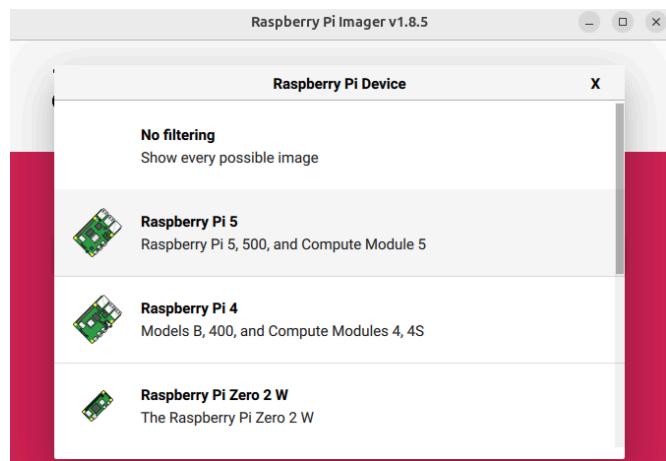
```
39  
40 # 6. 워크스페이스 단축 호출 alias 설정  
41 alias ros2ws="ws_setting \"ros2_ws\""  
42 alias pinky="ws_setting \"pinky_ws\""  
43
```

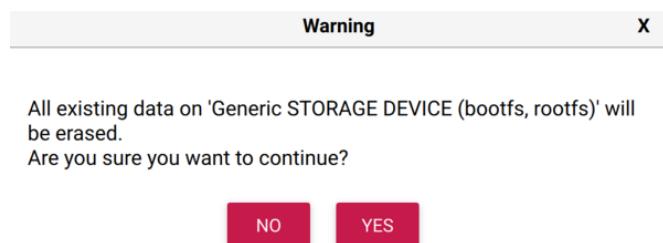
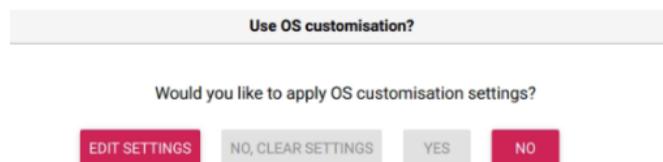
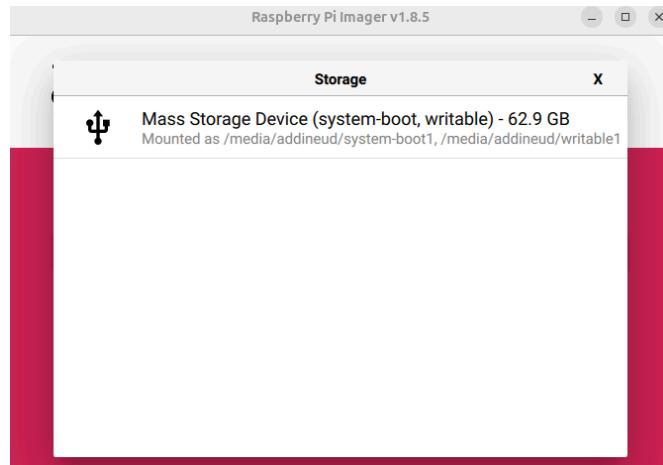
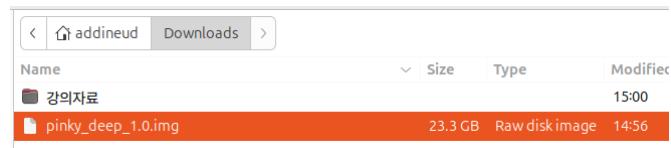
```
addineud@roastB-ubuntu24-04:~$ sudo apt install rpi-imager  
[sudo] password for addineud:  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  libjs-bootstrap4 libjs/popper.js libjs-sizzle node-jquery  
The following NEW packages will be installed:  
  libjs-bootstrap4 libjs/popper.js libjs-sizzle node-jquery rpi-imager  
0 upgraded, 5 newly installed, 0 to remove and 1 not upgraded.  
Need to get 1,378 kB of archives.  
After this operation, 7,945 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
0% [Waiting for headers]
```

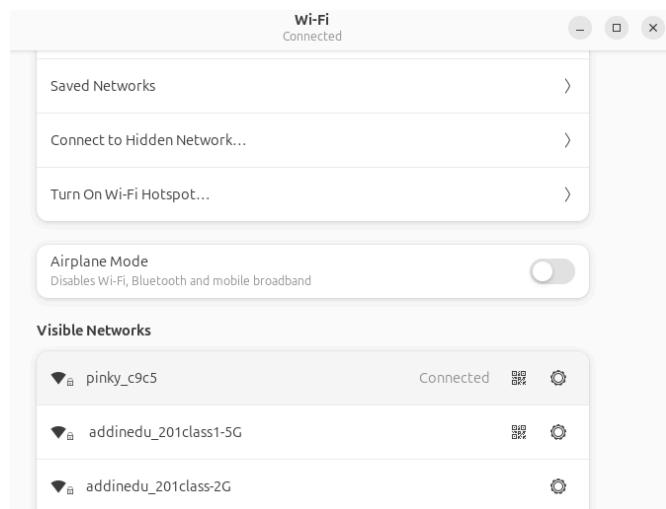
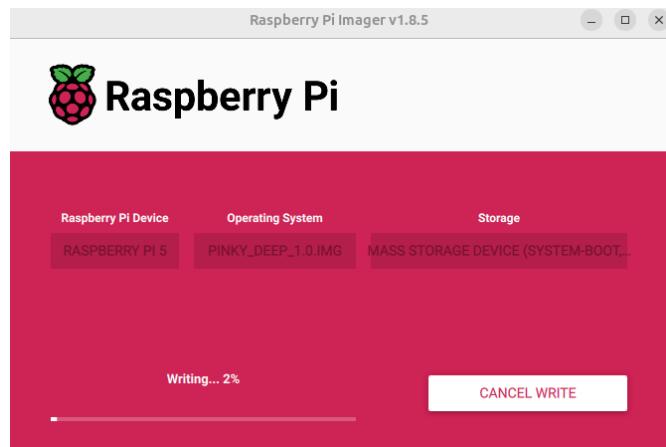
```
addineud@roastB-ubuntu24-04:~$ rpi-imager
```

Recent download history X

 pinky_deep_1.0.img
21.7 GB • 16 minutes ago







Cancel **pinky_c9c5** **Apply**

Details Identity **IPv4** IPv6 Security

IPv4 Method

Automatic (DHCP) Link-Local Only
 Manual Disable
 Shared to other computers

DNS Automatic

8.8.8.8 

Separate IP addresses with commas

Routes Automatic

Address	Netmask	Gateway	Metric



```
pinky@raspi: ~ 80x24
addineud@roastB-ubuntu24-04:~$ ssh pinky@192.168.4.1
The authenticity of host '192.168.4.1 (192.168.4.1)' can't be established.
ED25519 key fingerprint is SHA256:+nHGZyGdL/qtK/LrmkhtXXSmWlHklemuPZj9T6Z6v+Y.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.4.1' (ED25519) to the list of known hosts.
pinky@192.168.4.1's password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1018-raspi aarch64)

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

Expanded Security Maintenance for Applications is not enabled.

234 updates can be applied immediately.
99 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

41 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm

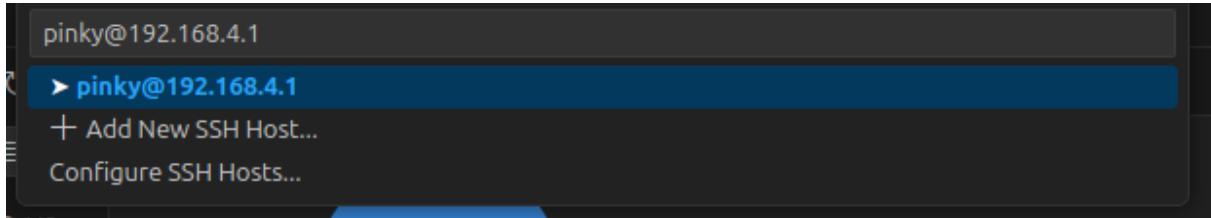
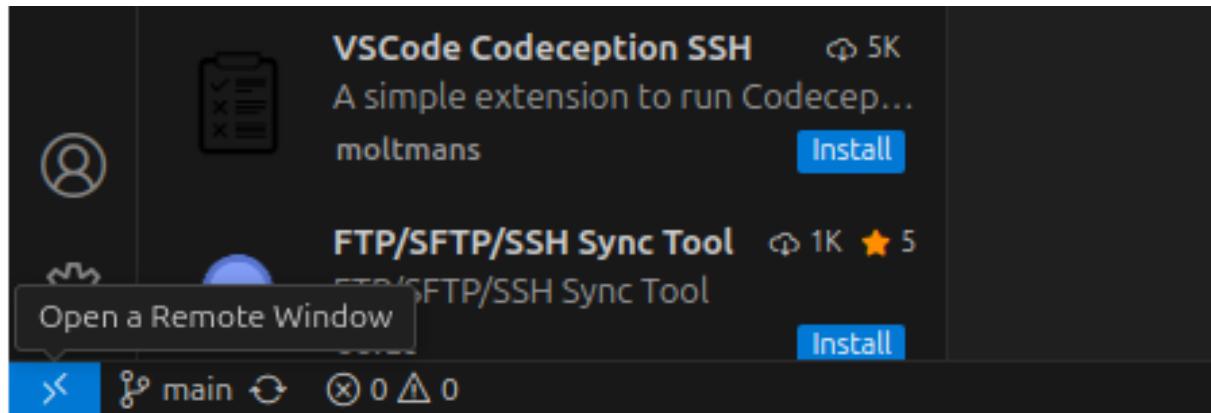
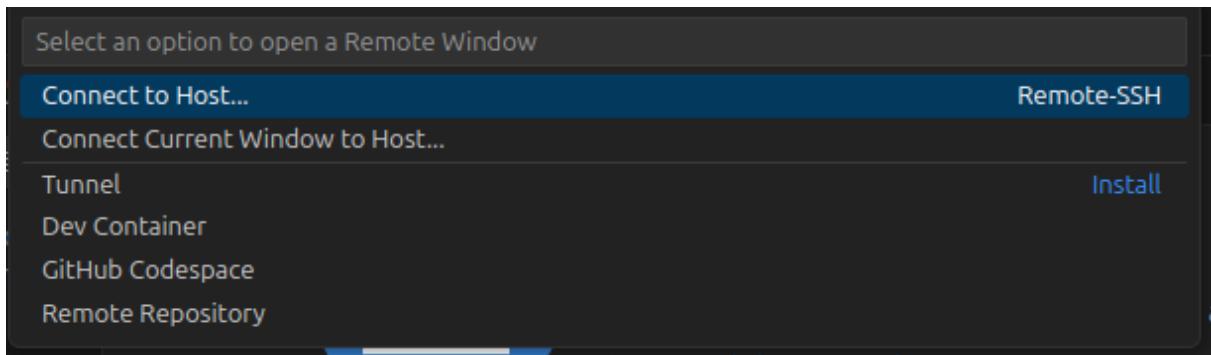
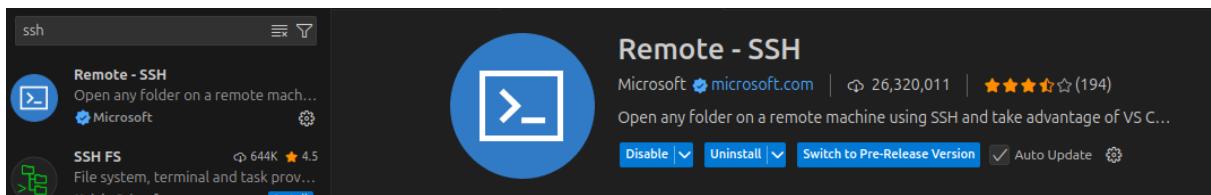
Last login: Tue Mar 11 20:16:30 2025 from 192.168.4.5
pinky@raspi:~$
```

```
pinky@raspi:~$ nmcli device wifi list
```

pinky@raspi: ~ 107x28								
IN-USE	BSSID	SSID	MODE	CHAN	RATE	SIGNAL	BARS	SECURITY
	B0:38:6C:22:0F:6B	addinedu_201class-5G	Infra	36	540 Mbit/s	100		WPA2 WPA3
	5A:86:94:44:29:50	addinedu_201class1-5G	Infra	108	540 Mbit/s	99		WPA2
	B0:38:6C:22:0F:6A	addinedu_201class-2G	Infra	11	540 Mbit/s	95		WPA2 WPA3
	5A:86:94:44:29:D0	addinedu_201class_2-5G	Infra	157	540 Mbit/s	92		WPA2
	58:86:94:44:29:50	addinedu_201class1-2.4G	Infra	10	540 Mbit/s	87		WPA2
	58:86:94:44:29:D0	addinedu_201class_2-2.4G	Infra	7	540 Mbit/s	80		WPA2
	2E:CF:67:3C:DC:7B	pinky_dc7a	Infra	8	65 Mbit/s	79		WPA2
	58:86:94:9D:8B:E8	뉴 티 캐슬 -201호 -2.4G	Infra	3	270 Mbit/s	77		WPA2
	58:86:94:44:29:D0	addinedu_201class_2-2.4G	Infra	4	540 Mbit/s	75		WPA2

```
pinky@raspi:~$ ./wifi_setup.sh
Enter WiFi SSID: addinedu_201class_2-5G
Enter WiFi Password: 201class2!

Device 'wlan0' successfully activated with '30123557-d6d2-4992-8cab-d88e7bf9cbe5'.
Successfully connected to addinedu_201class_2-5G
pinky@raspi:~$
```



Enter password for pinky@192.168.4.1

Press 'Enter' to confirm your input or 'Escape' to cancel

