

Multipass

[multipass](#)

Mac OS

[multipass-install](#)

[참조](#)

install

```
Brew install --cask multipass
```

Ubuntu img List

find

```
multipass find
```

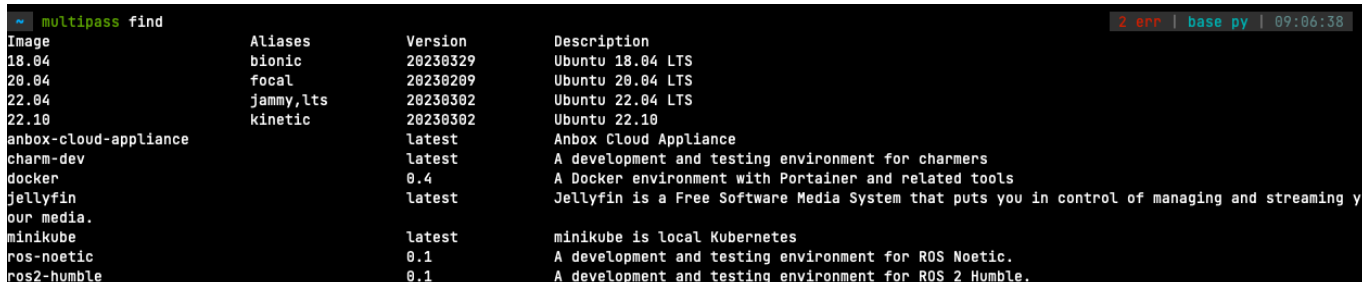


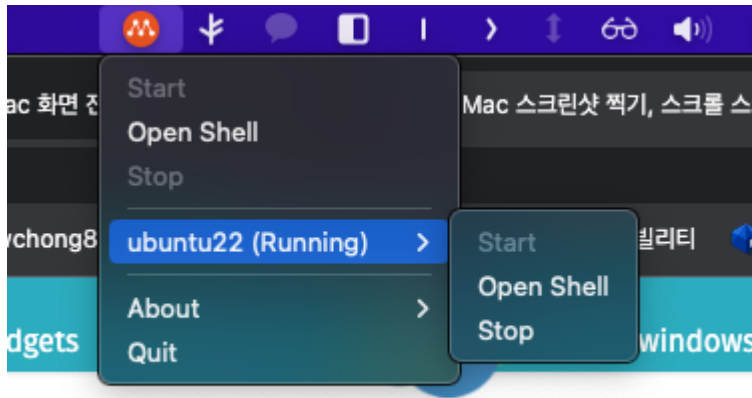
Image	Aliases	Version	Description
18.04	bionic	20230329	Ubuntu 18.04 LTS
20.04	focal	20230209	Ubuntu 20.04 LTS
22.04	jammy,lts	20230302	Ubuntu 22.04 LTS
22.10	kinetic	20230302	Ubuntu 22.10
anbox-cloud-appliance		latest	Anbox Cloud Appliance
charm-dev		latest	A development and testing environment for charmers
docker		0.4	A Docker environment with Portainer and related tools
jellyfin		latest	Jellyfin is a Free Software Media System that puts you in control of managing and streaming y
our media.			
minikube		latest	minikube is local Kubernetes
ros-noetic		0.1	A development and testing environment for ROS Noetic.
ros2-humble		0.1	A development and testing environment for ROS 2 Humble.

install img

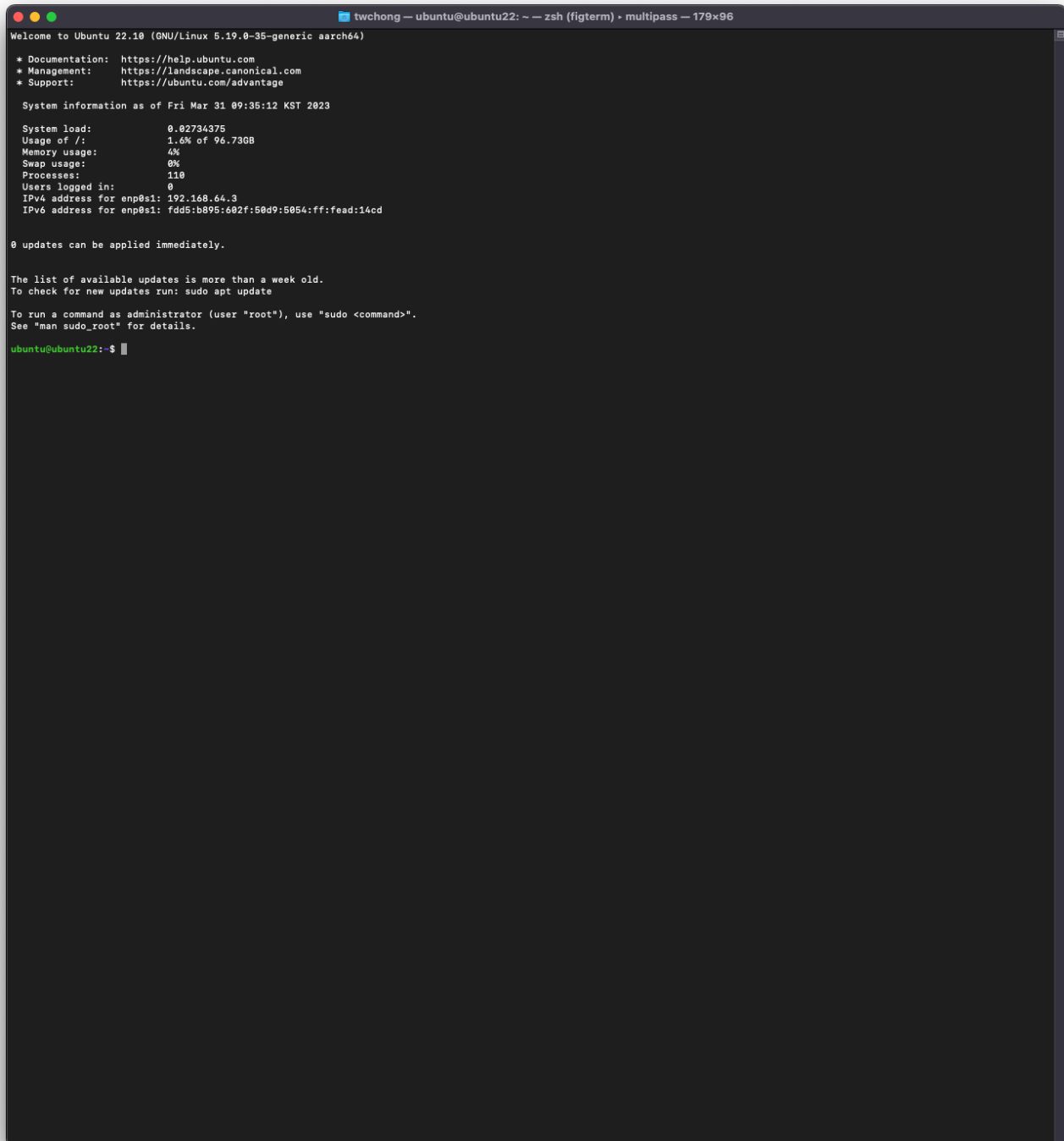
```
multipass launch 22.10 -n [가상머신이름] -c 4 -m 4G -d 100G
```

- launch : 설치 및 실행
- 22.10 : 우분투 설치 버전, find에서 확인
- -n : 가상머신의 이름
- -c : 가상머신에 할당할 코어의 개수
- -m : 가상머신에 할당할 메모리 크기
- -d : 가상머신에 할당할 디스크 크기

- 자동실행된다고 하지만, 프로그램이 메뉴바에 출력되지 않을 경우 앱 목록에서 직접 실행



open shell



```
Welcome to Ubuntu 22.10 (GNU/Linux 5.19.0-35-generic aarch64)

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

System information as of Fri Mar 31 09:35:12 KST 2023

System load:        0.02734375
Usage of /:         1.6% of 96.73GB
Memory usage:       4%
Swap usage:         0%
Processes:          110
Users logged in:    0
IPv4 address for enp0s1: 192.168.64.3
IPv6 address for enp0s1: fdd5:b895:602f:50d9:5054:ff:fead:14cd

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ubuntu22:~$
```

- 사용자명은 ubuntu, 비밀번호는 없음
- 또는 현재 터미널에서 다음의 명령어를 통해 연결

```
multipass shell [가상머신이름]
```

shared Directory

```
multipas mount /shared_directory_path [가상머신이름] : /home/ubuntu/share
```

```

[ubuntu@ubuntu22:~$ ls
share snap
[ubuntu@ubuntu22:~$ cd share/
[ubuntu@ubuntu22:~/share$ ls
'# 2022-09-27-YT-현장 실사.md'  T_account.xlsx  appSystem_GIT  flutter  id_rsa.pub  myGithub  sharedDir  경복대_개발공유_0228
'# 2022-09-28-만도-사업단세미나.md'  UTM_shared      carnavi_work  git-nas  knu_svn.txt  os_image  stm        경영
Log                                androidSdCard    docker        id_rsa   myGit        qt        vimrc.txt  '만도 정리.md'
[ubuntu@ubuntu22:~/share$
[ubuntu@ubuntu22:~/share$

```

info

```
multipass info [가상머신 이름]
```

- 가상머신의 각종 정보를 확인할 수 있음

list

```
multipass list
```

- 생성한 가상머신 목록 확인

unmount

```
multipass umount [가상머신 이름]
```

- 가상머신 off

deleted virtual machine

```

multipass umount [가상머신 이름]
multipass stop [가상머신 이름]
multipass delete [가상머신 이름]
multipass purge [가상머신 이름]

```

- delete 후 list로 목록을 확인하면
- 아직 남아있는 것을 확인할 수 있음
- purge까지 수행해야 완전히 삭제

ubuntu GUI

install ui tools

virtual machine

- desktop ui 설치

```
sudo apt-get update
sudo apt-get upgrade
sudo apt-get install ubuntu-desktop xrdp -y
```

- 비밀번호 설정

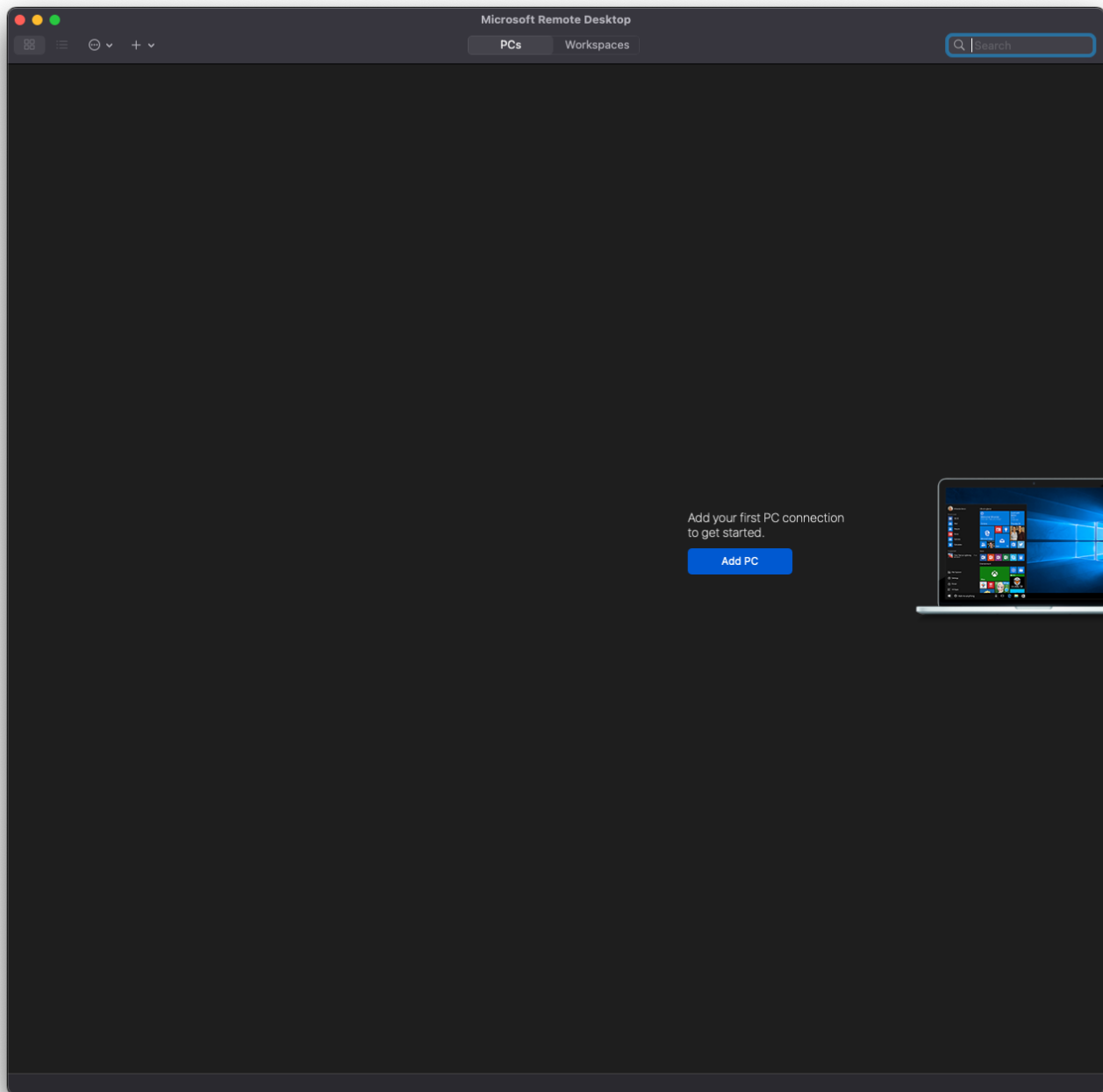
```
sudo passwd [user]
# input password
```

Mac OS

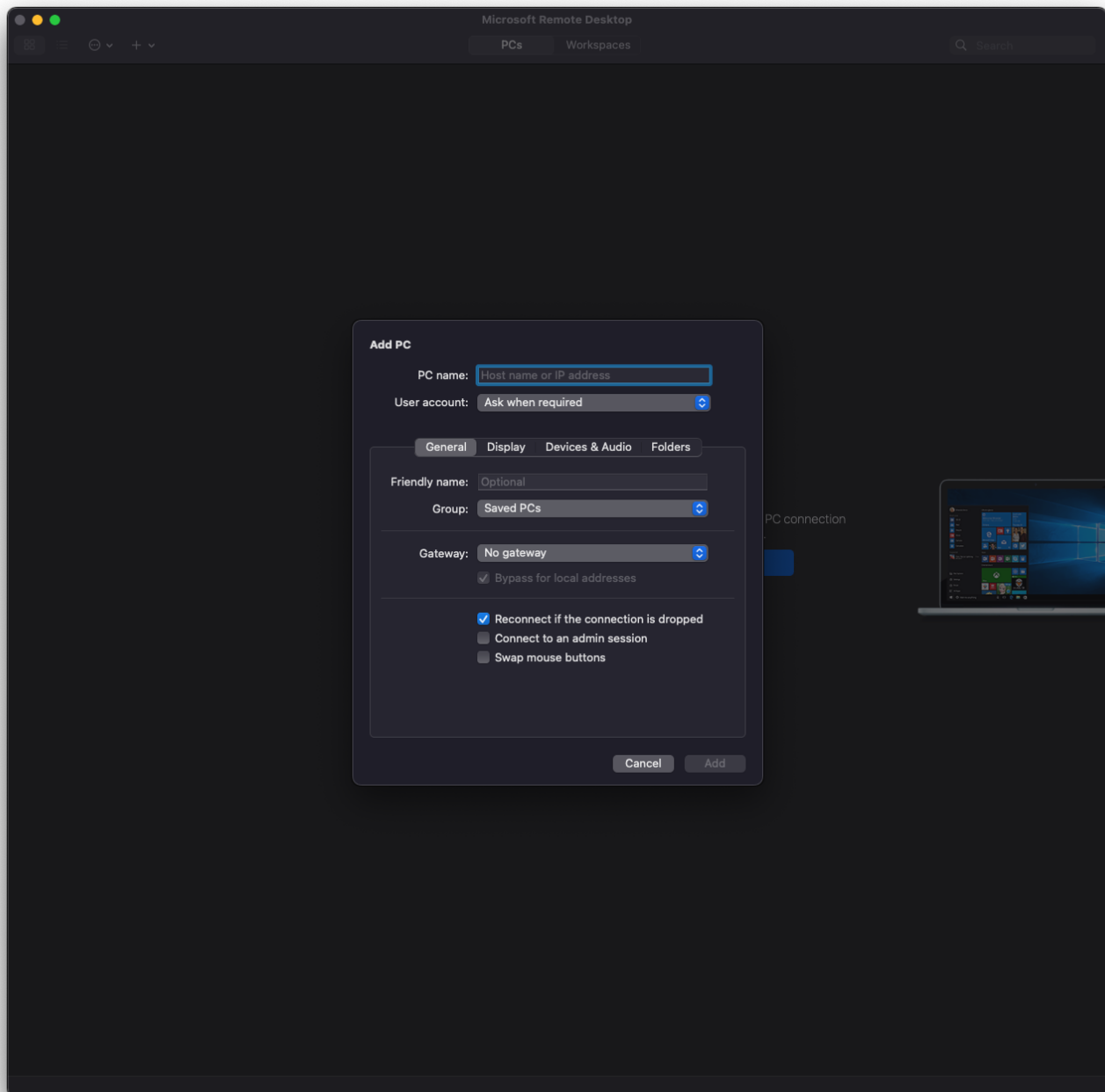
- app store에서 **Microsoft Remote Desktop** 설치

setting

- [add pc]로 원격 접속할 구성 만들기



- PC name에는 가상머신의 IP주소를 입력
- 가상 머신의 IP주소는 multipass info [가상머신 이름]으로 확인할 수 있음

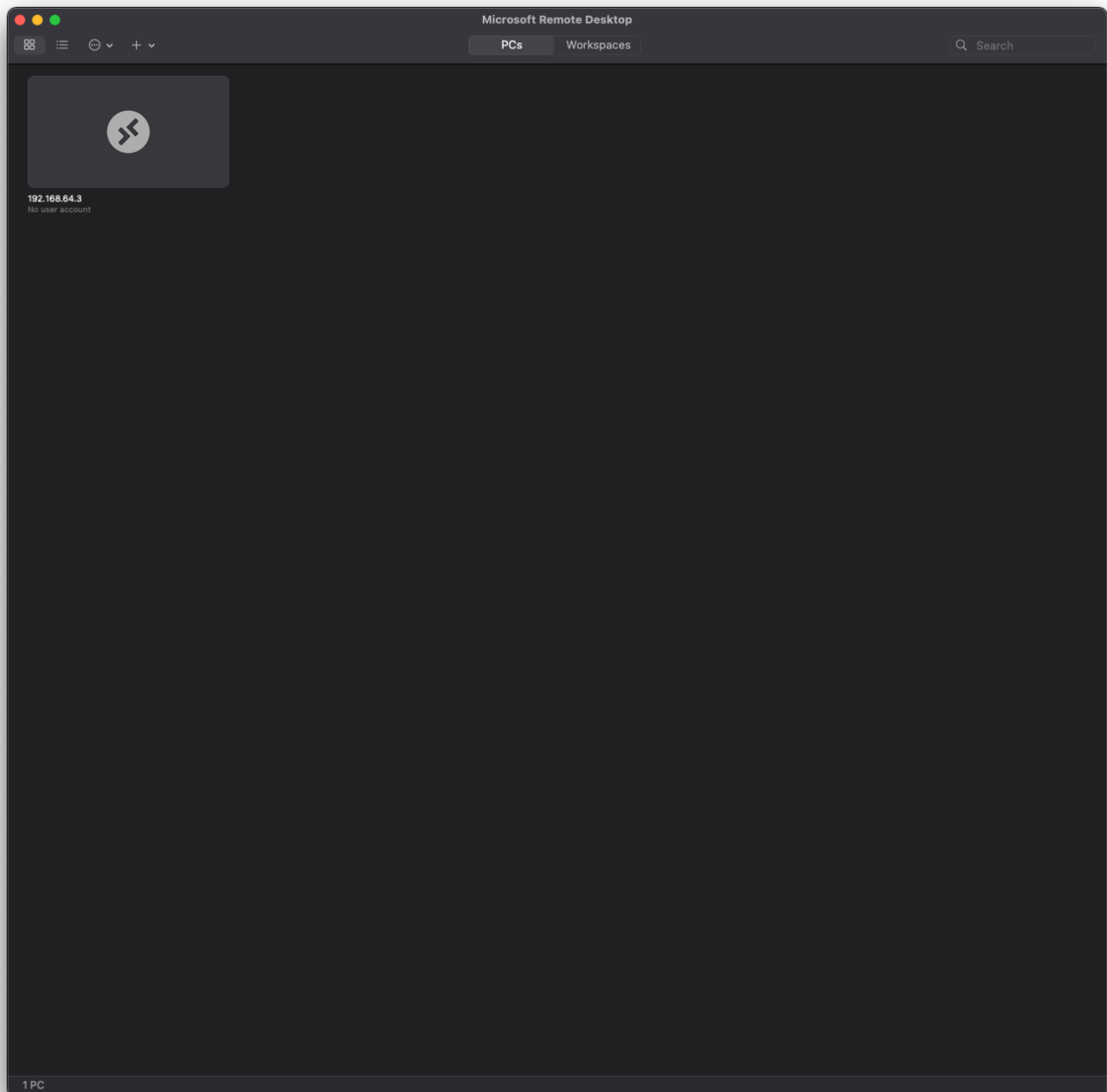


```

~ multipass info ubuntu22
Name:      ubuntu22
State:     Running
IPv4:      192.168.64.3
Release:   Ubuntu 22.10
Image hash: 1ee82ef4f1d9 (Ubuntu 22.10)
CPU(s):    4
Load:      0.01 0.05 0.02
Disk usage: 2.0GiB out of 96.7GiB
Memory usage: 197.4MiB out of 3.8GiB
Mounts:    /Users/twchong/workspace => /home/ubuntu/share
           UID map: 501:default
           GID map: 20:default

```

- 원격접속하기 위한 구성이 생성됨을 확인



- 더블클릭으로 동작
- 원격접속을 하기 위한 로그인

 ui-04

 ui-05

result

