

# 범일정보 인턴십 발표

---



## 목차

### 1주차

- VMWARE 개념 & 실습
- ESXi 실습
- 추가 공부 및 개인 실습

### 2주차

- Container 실습

# 1 주차

# **1. 과제**

**VMware 에 Ubuntu를 설치  
ssh PuTTY 접속**

# 가상화 구성도



## 가상화 하드웨어 스펙

- ▶ Processors 4 cores
- ▶ Memory 8 GB
- ▶ Hard Disk 20GB

# 1. 과제 해결

## VMware 화면

```
Ubuntu 64-bit - VMware Workstation 17 Player (Non-commercial use only)
Player | [Icons]
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

System information as of Tue Jan 16 01:46:18 AM UTC 2024

System load: 0.24365234375 Processes: 263
Usage of /: 29.9% of 9.75GB Users logged in: 0
Memory usage: 5% IPv4 address for ens33: 192.168.150.128
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

47 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Tue Jan 16 01:30:43 UTC 2024 from 192.168.150.1 on pts/0
icerice@icerice:~$ ip add
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:d9:da:4f brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.150.128/24 metric 100 brd 192.168.150.255 scope global dynamic ens33
        valid_lft 1766sec preferred_lft 1766sec
    inet6 fe80::20c:29ff:fed9:da4f/64 scope link
        valid_lft forever preferred_lft forever
icerice@icerice:~$ _
```

## PuTTY 화면

```
icerice@icerice: ~
System load: 0.0166015625 Processes: 230
Usage of /: 29.9% of 9.75GB Users logged in: 1
Memory usage: 5% IPv4 address for ens33: 192.168.150.128
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

47 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

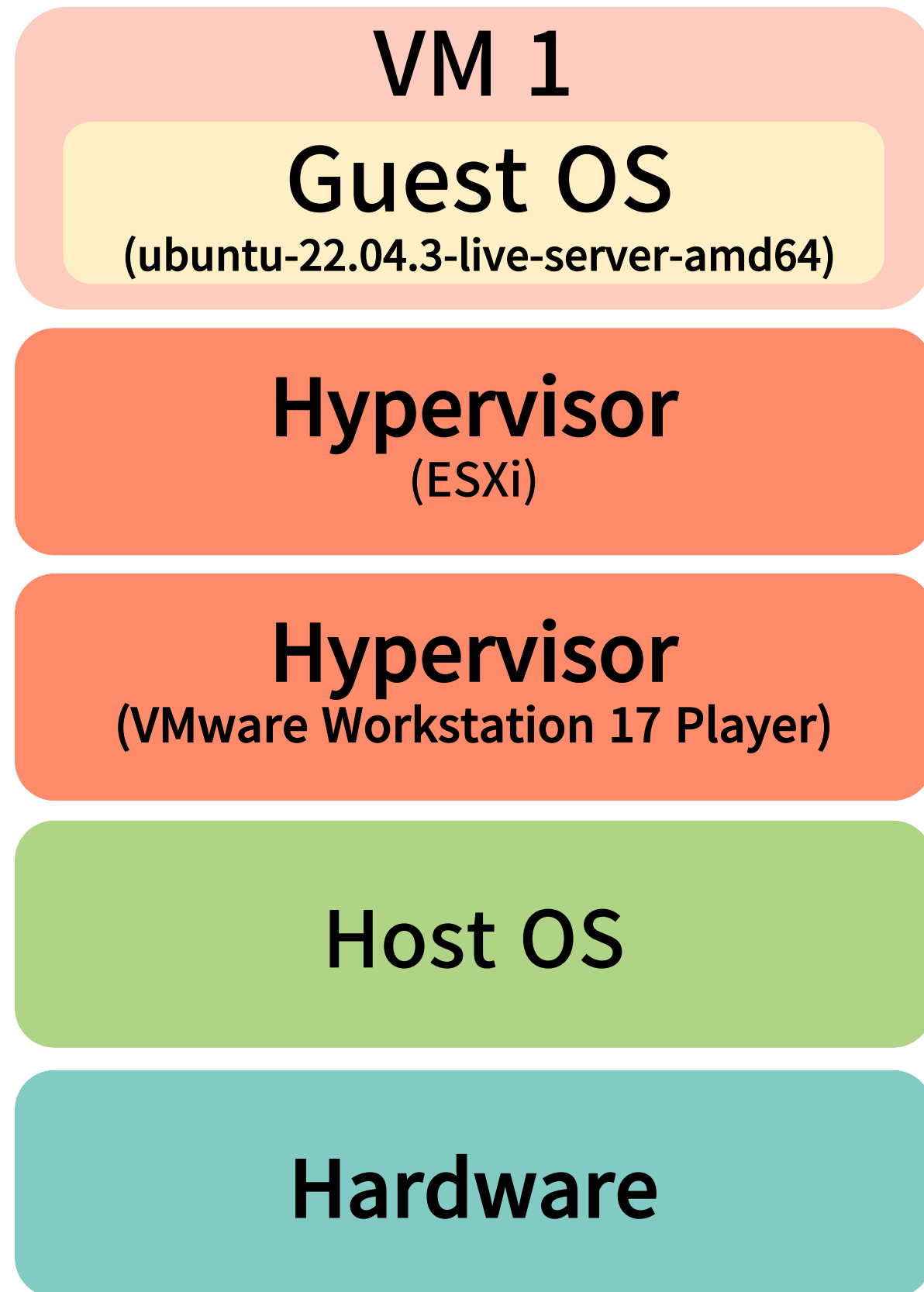
Last login: Tue Jan 16 01:47:47 2024 from 192.168.150.1
icerice@icerice:~$ ls
test.py
icerice@icerice:~$ rm test.py
icerice@icerice:~$ vim test.py
icerice@icerice:~$ python3 test.py
Hello worl
icerice@icerice:~$ █
```

## **2. 과제**

**VMware 에 ESXi를 설치**

**ESXi에 Ubuntu 설치**

# 가상화 구상도



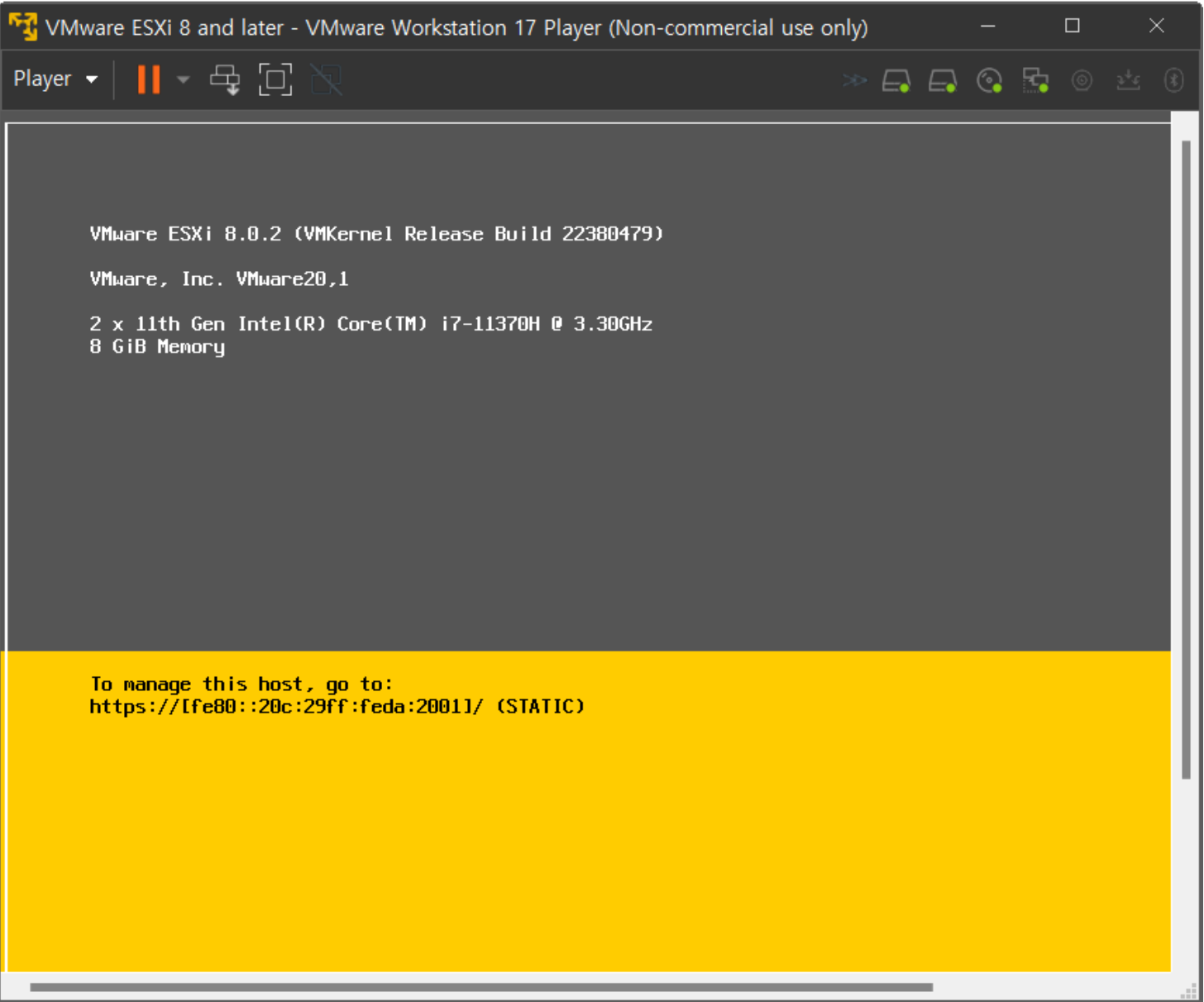
## 가상화 하드웨어 스펙

- ▶ Processors 2 cores
- ▶ Memory 8 GB
- ▶ Hard Disk1 142GB
- ▶ Hard Disk2 30GB

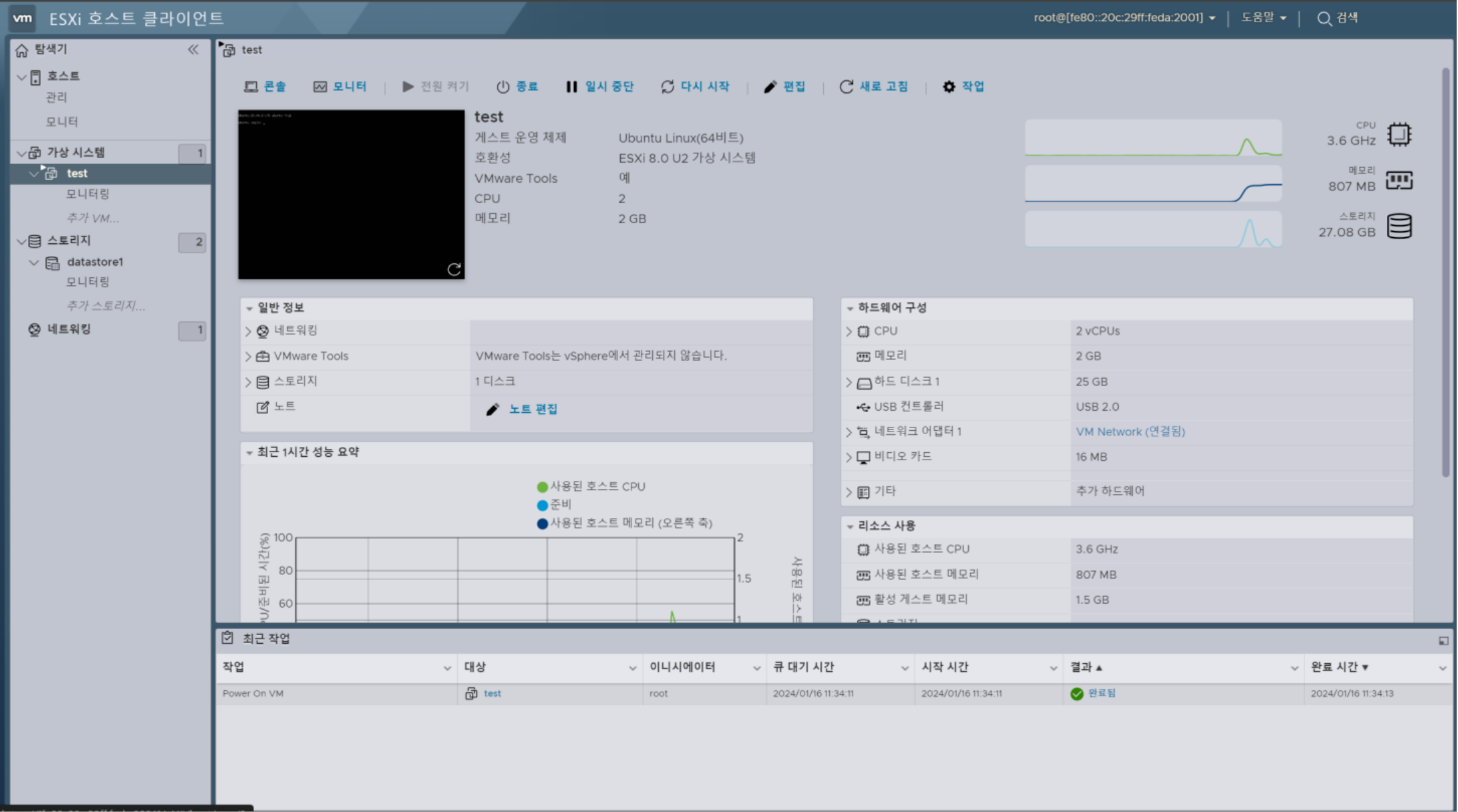


# 2. 과제 해결

## VMware 화면

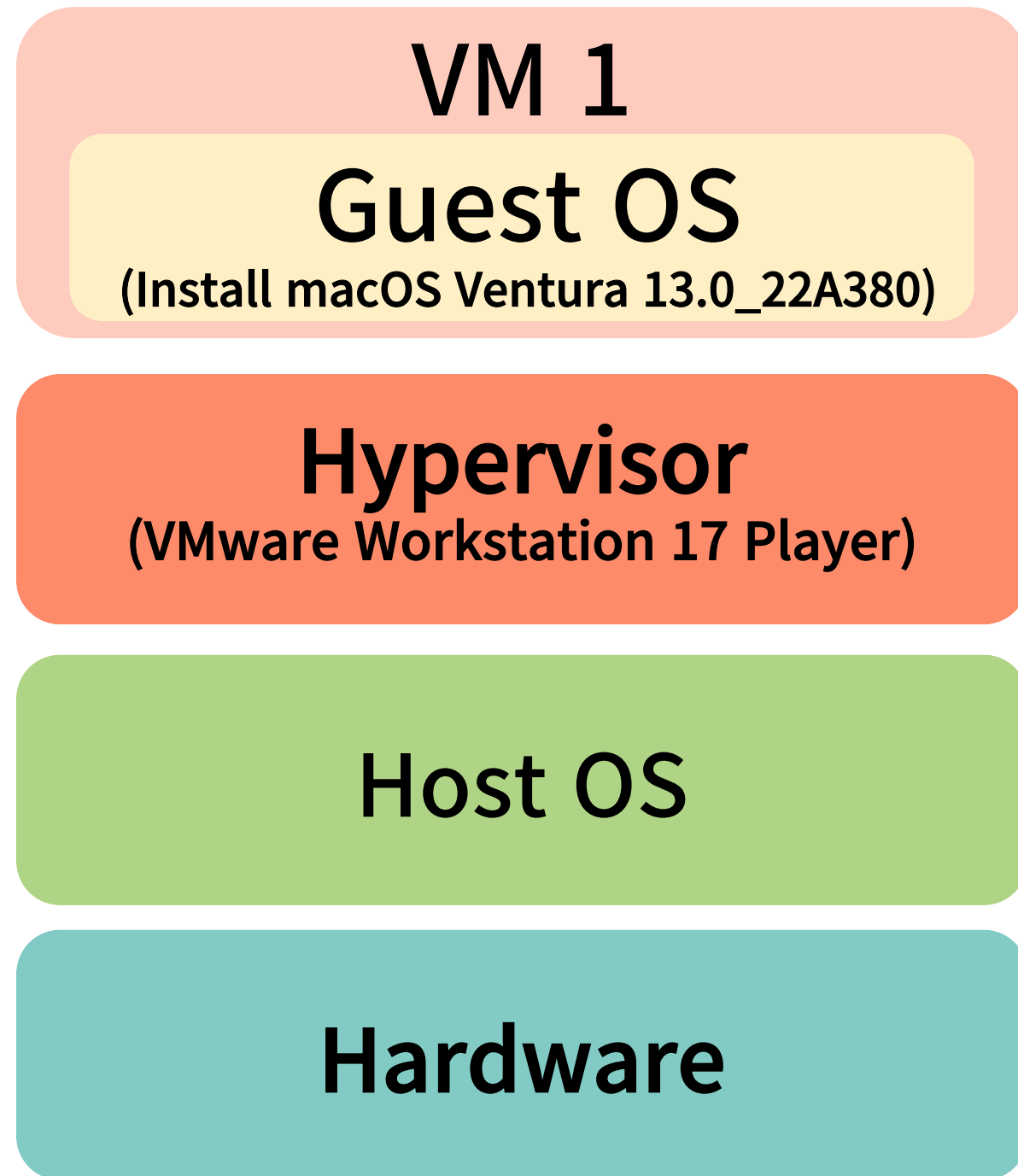


## ESXi 화면



**개인 과제**  
**추가 공부 및 개인 실습**  
 **Mac OS**

# 가상화 구성도



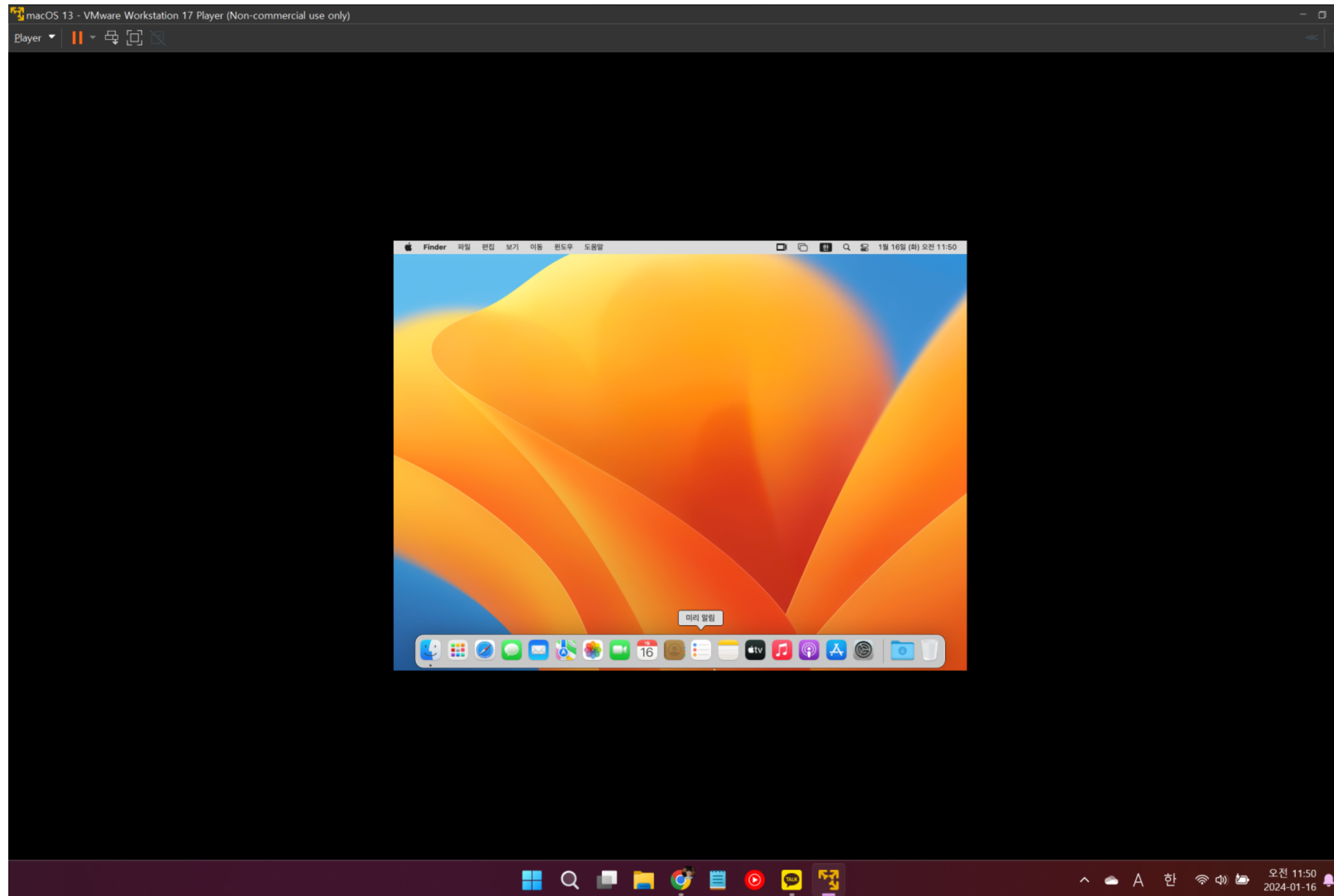
## 가상화 하드웨어 스펙

- ▶ Processors 4 cores
- ▶ Memory 8 GB
- ▶ Hard Disk 80GB



VMware에는 mac os를 바로 설치가 불가능합니다.  
그리하여 해결 방법을 찾던 도중 github에 있는  
Unlocker이라는 툴을 사용했습니다

# 개인 과제 해결

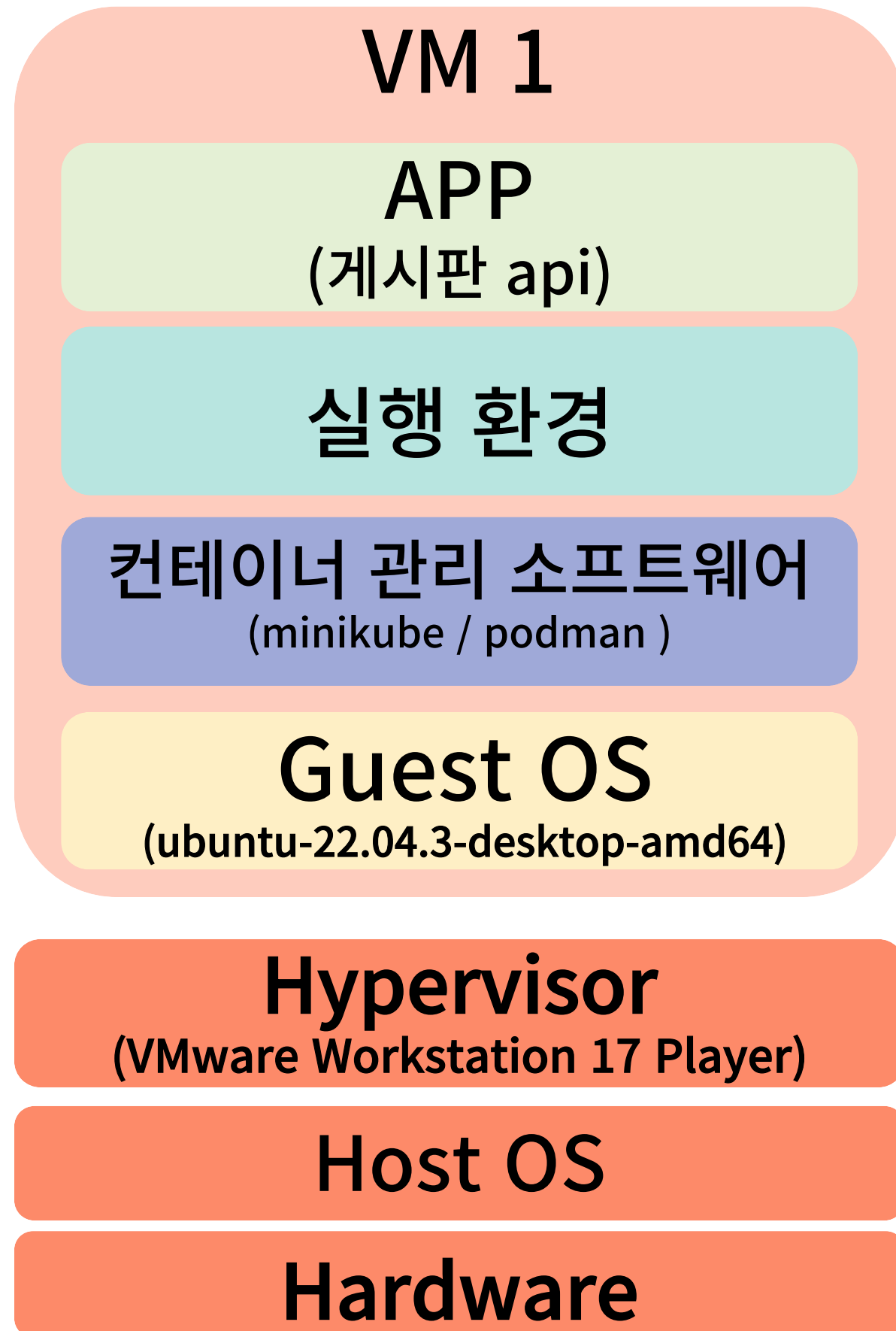


# 2 주차

# **1. 과제**

**컨테이너 이미지 생성 및 컨테이너  
배포를 통한 MSA 애플리케이션 구축**

# 가상화 & Container 구축



## 가상화 하드웨어 스펙

- ▶ Processors 4 cores
- ▶ Memory 12 GB
- ▶ Hard Disk 30GB



# 1. 과제 해결

가상화 환경 구축



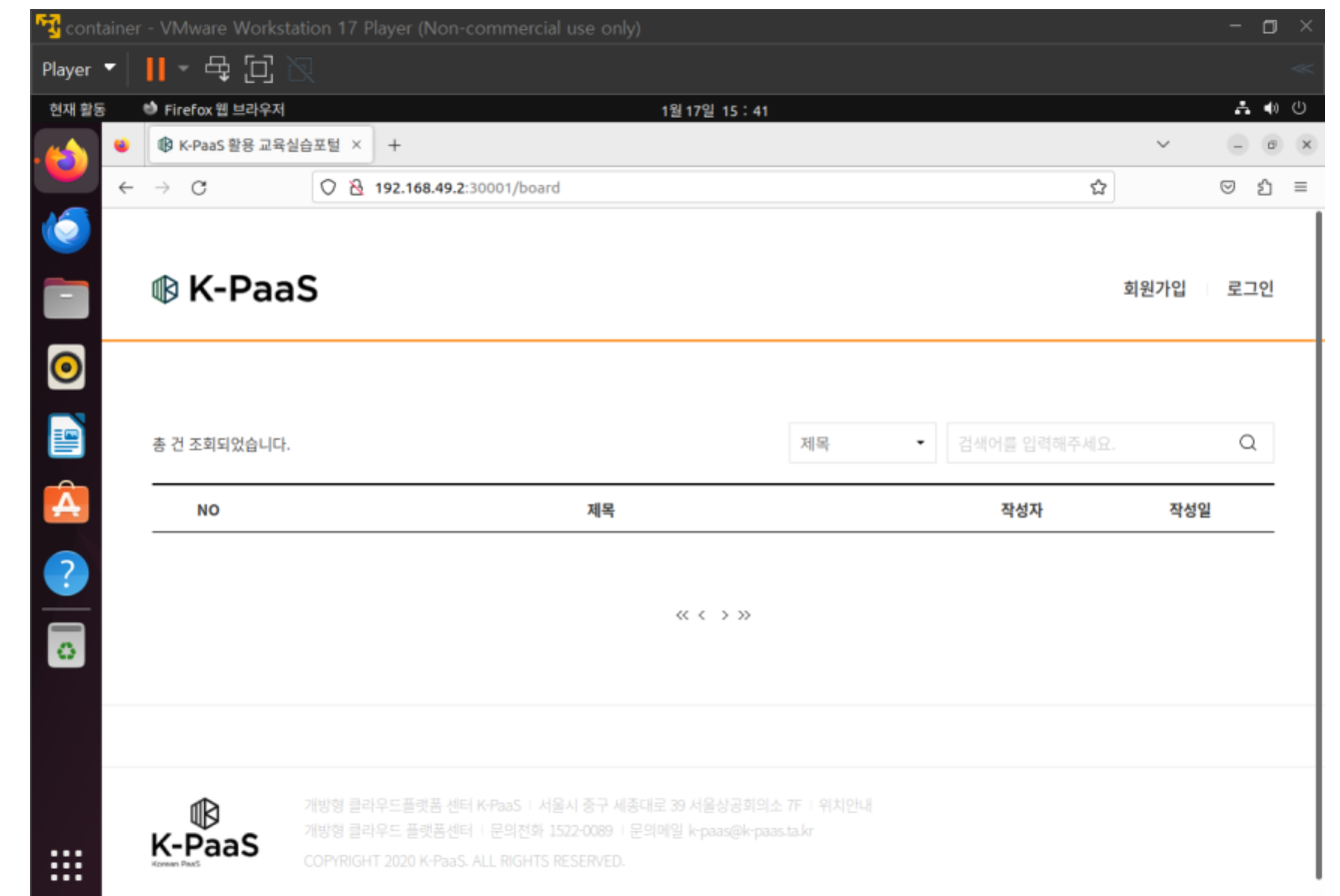
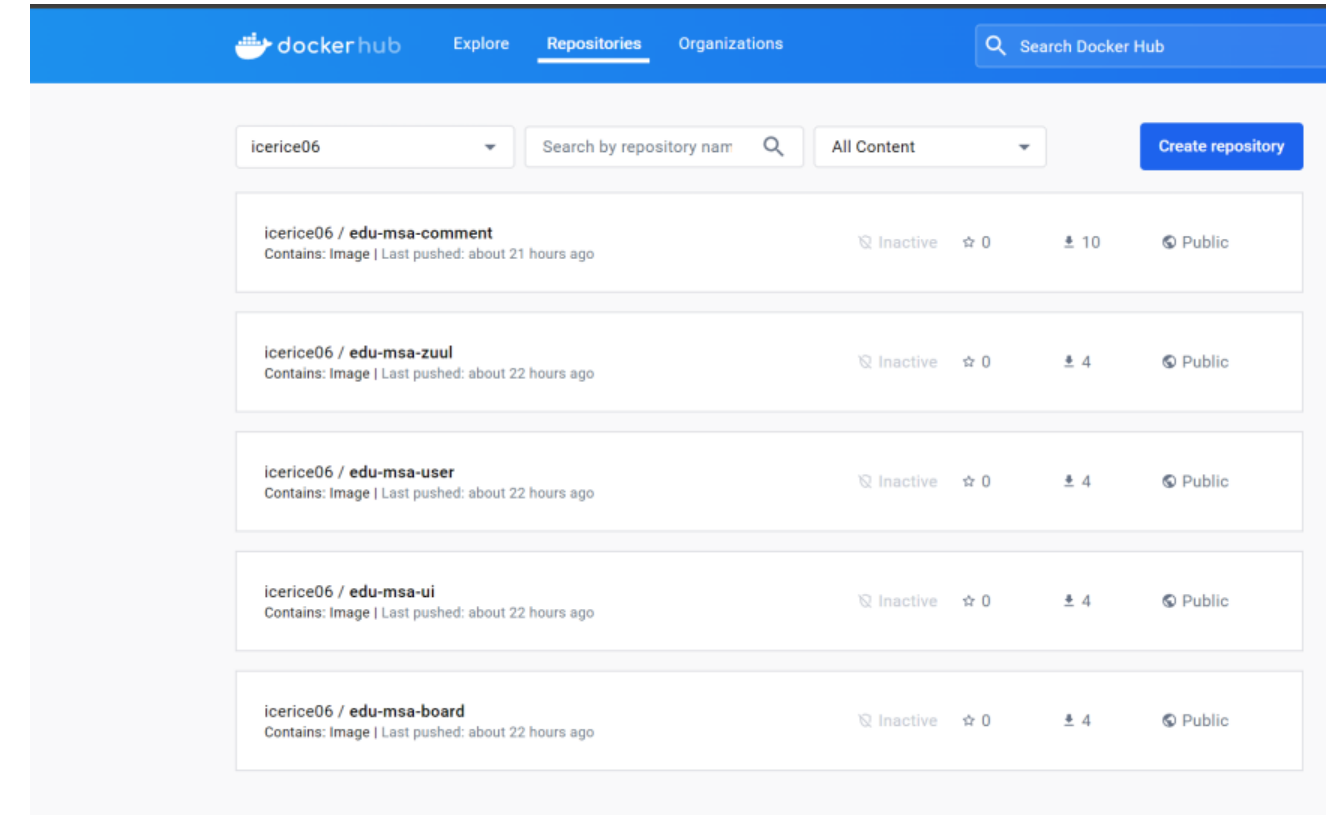
컨테이너 관리 소프트웨어 설치



github에 있는 APP 다운로드



전자정보 프레임워크사용 war생성



**감사합니다.**

