

# Ubuntu

국립금오공과대학교

수리빅데이터학과

신 승 혁

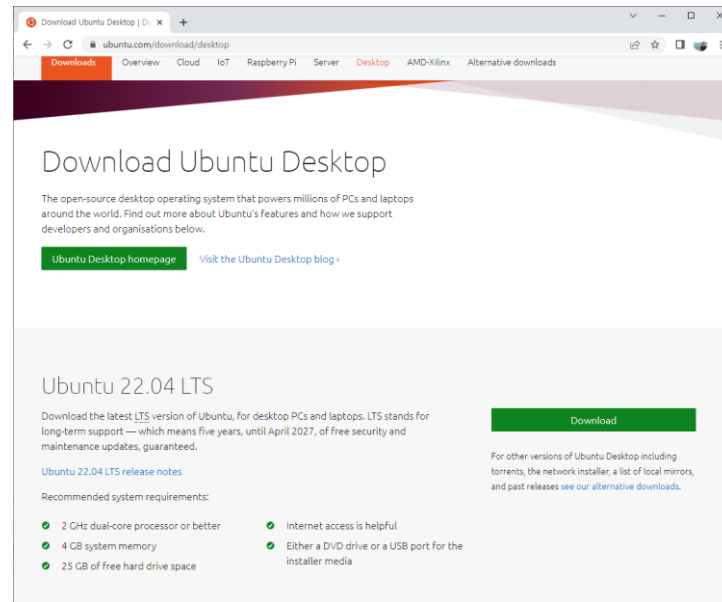
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## 1 virtual machine 설정

ubuntu download

<https://ubuntu.com/download/desktop>

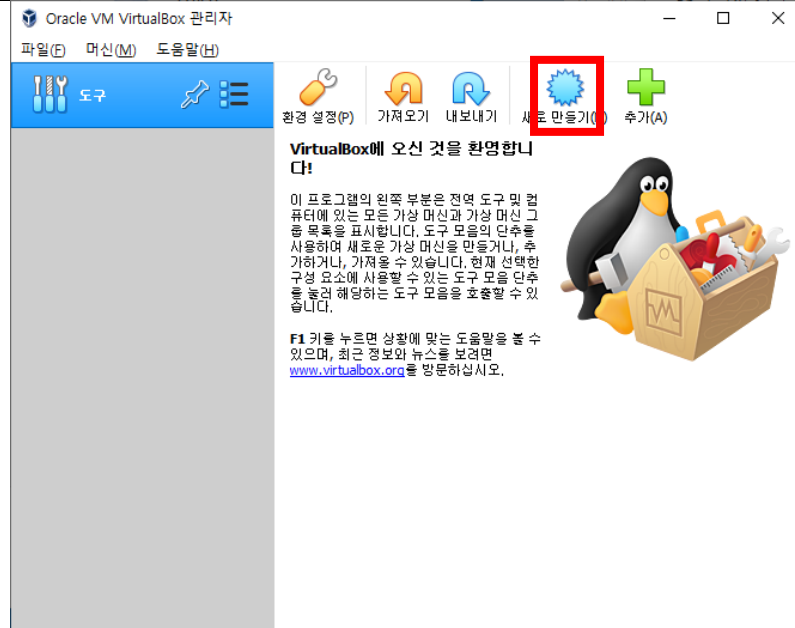


download &  
install

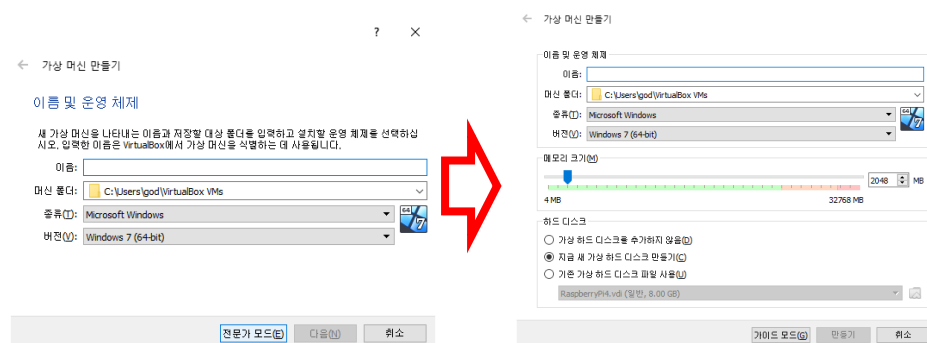
<https://www.virtualbox.org/>



create a machine



전문가 모드 선택



가상머신 이름은 ubuntu-ML 으로 설정함.

가상의 컴퓨터를 만드는 과정으로 메모리 크기는 적당한 크기로 설정함.


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← 가상 머신 만들기

이름 및 운영 체제

이름:

머신 폴더:

종류(T):  

버전(V):

메모리 크기(M)

8192 MB


4 MB 32768 MB

하드 디스크

☐ 가상 하드 디스크를 추가하지 않음(D)

☒ 지금 새 가상 하드 디스크 만들기(C)

☐ 기존 가상 하드 디스크 파일 사용(U)




가이드 모드(G) **만들기** 취소

파일크기는 최대로 함

? ×

← 가상 하드 디스크 만들기

파일 위치(L)



파일 크기(S)

2.00 TB

4.00 MB 2.00 TB

하드 디스크 파일 종류(T)

☒ VDI(VirtualBox 디스크 이미지)

☐ VHD(가상 하드 디스크)

☐ VMDK(가상 머신 디스크)

☐ HDD(Parallels 하드 디스크)

☐ QCOW(QEMU Copy-On-Write)

☐ QED(QEMU 확장 디스크)

물리적 하드 드라이브에 저장

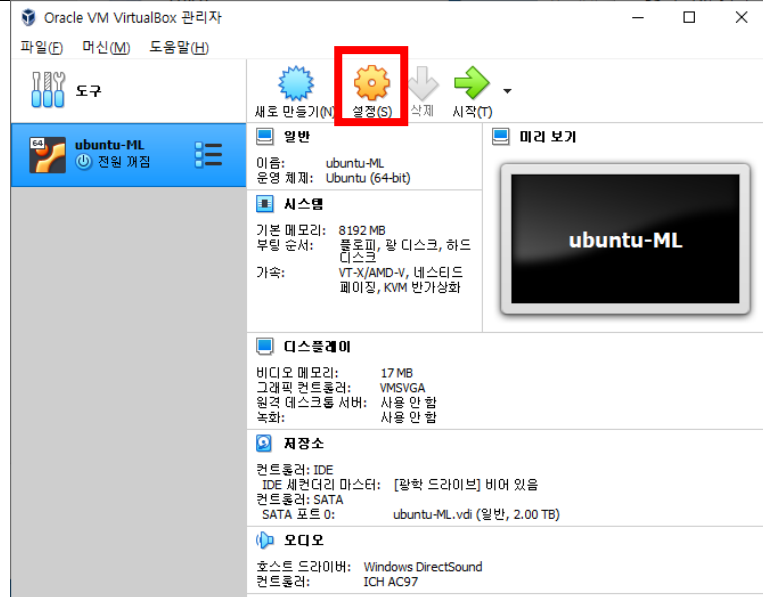
☒ 동적 할당(D)

☐ 고정 크기(F)

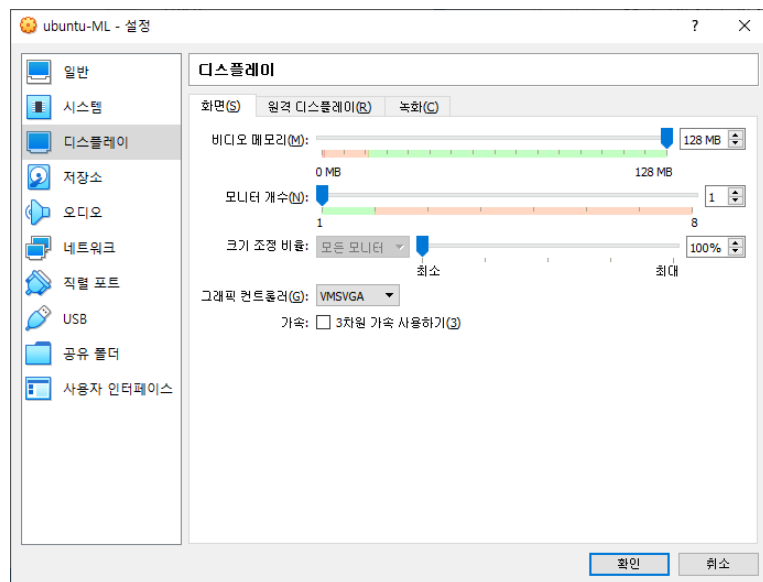
☐ 2GB 단위로 분할하기(S)

가이드 모드(G) **만들기** 취소

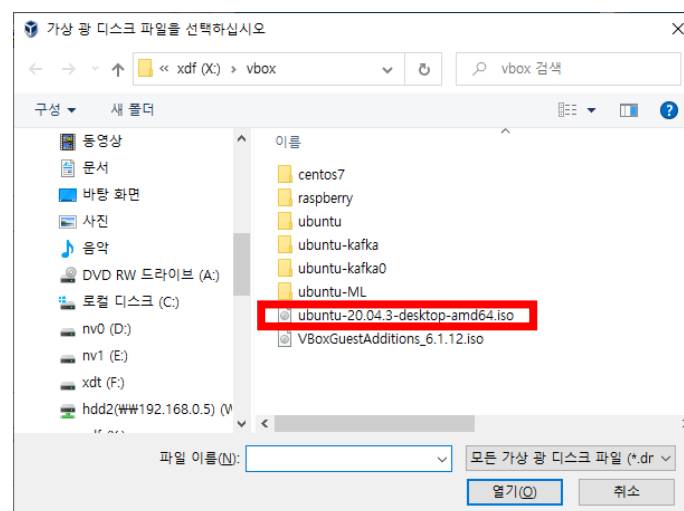
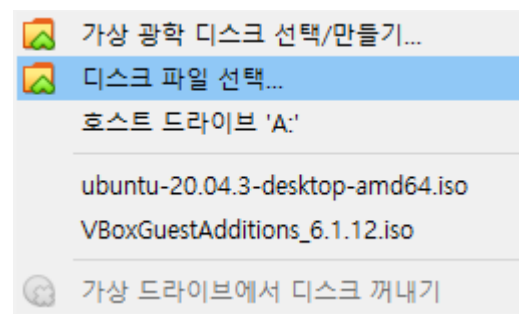
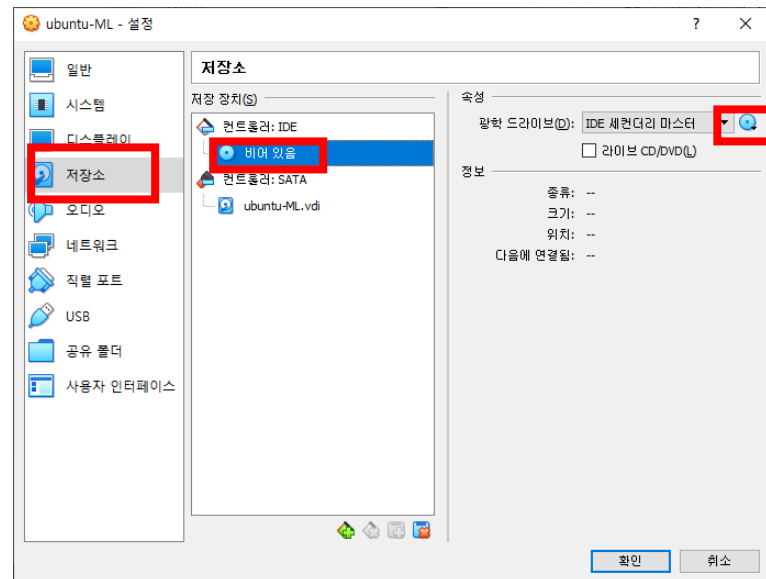
가상컴퓨터 설정



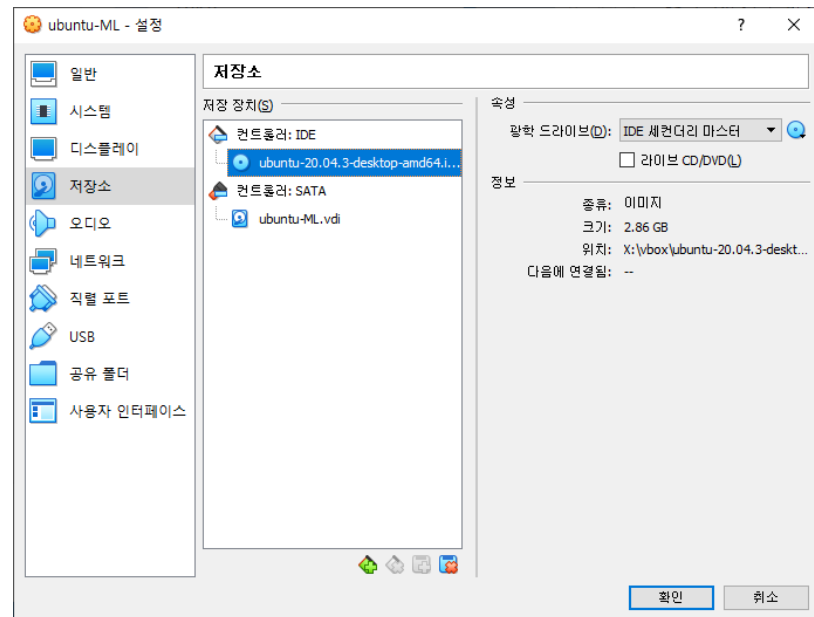
비디오 메모리 128MB 최대로 함.



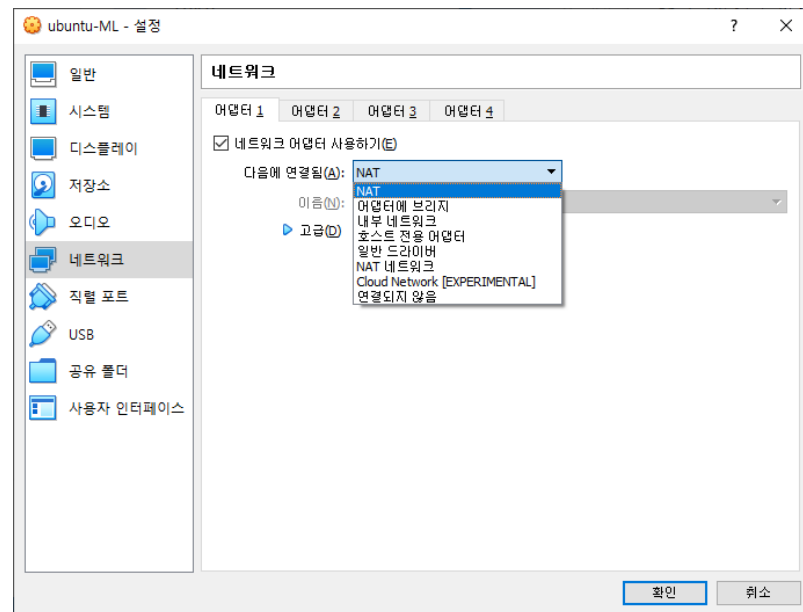
## ubuntu 설치 이미지 설정



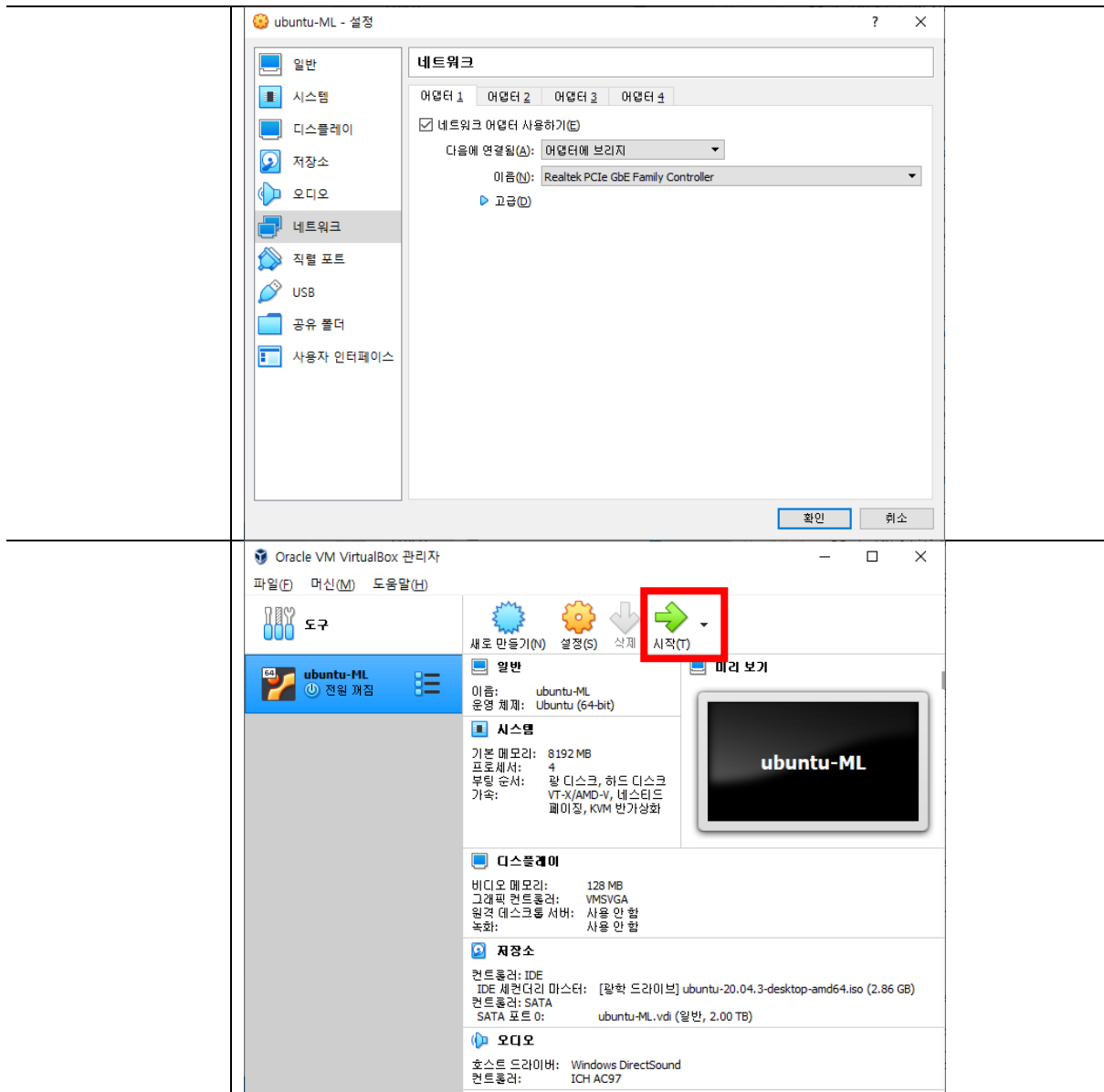
## 가상 디스크가 설치된 모습



## 네트워크 어댑터를 "어댑터에 브리지" 로 선택

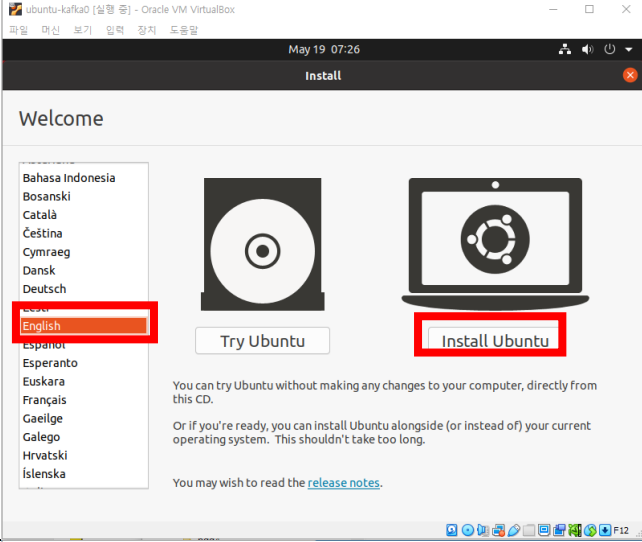
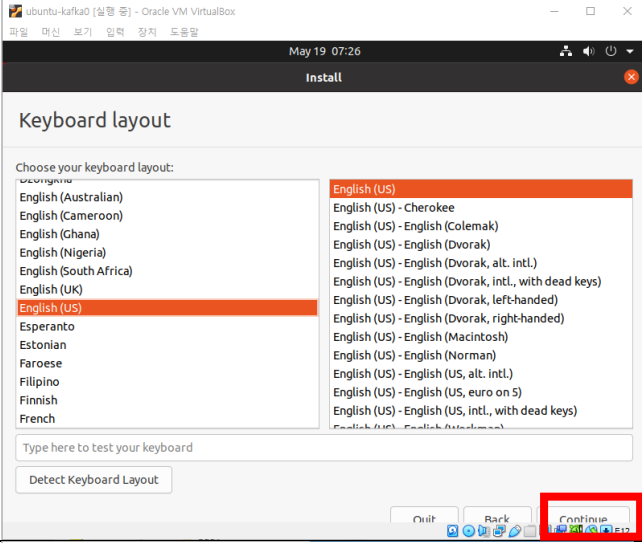
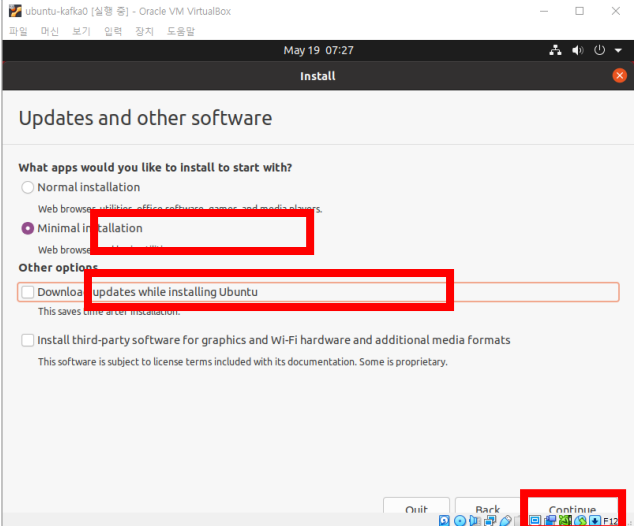


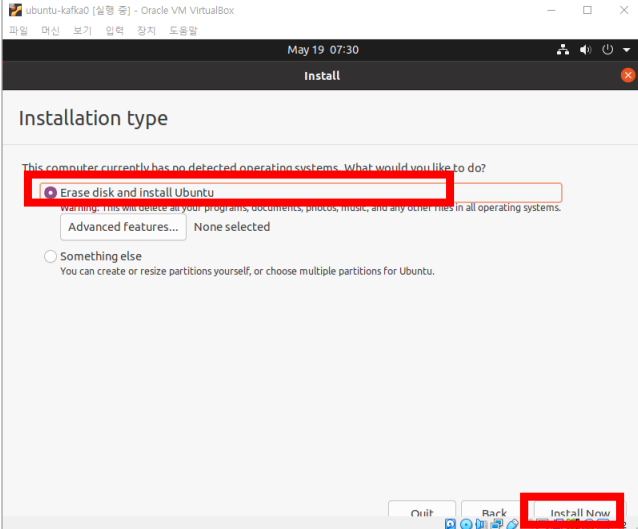
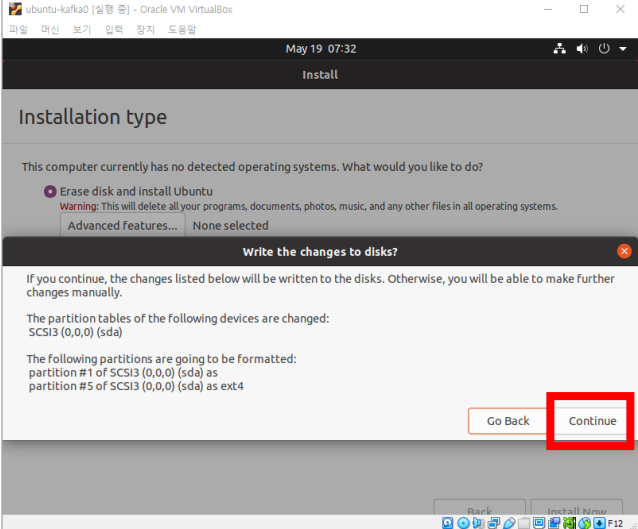
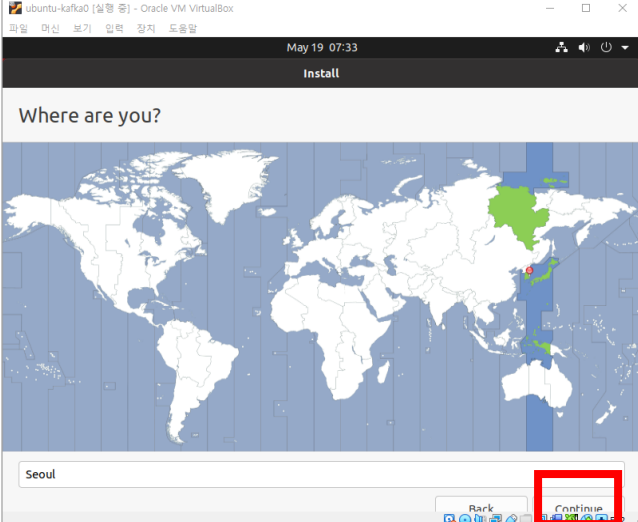


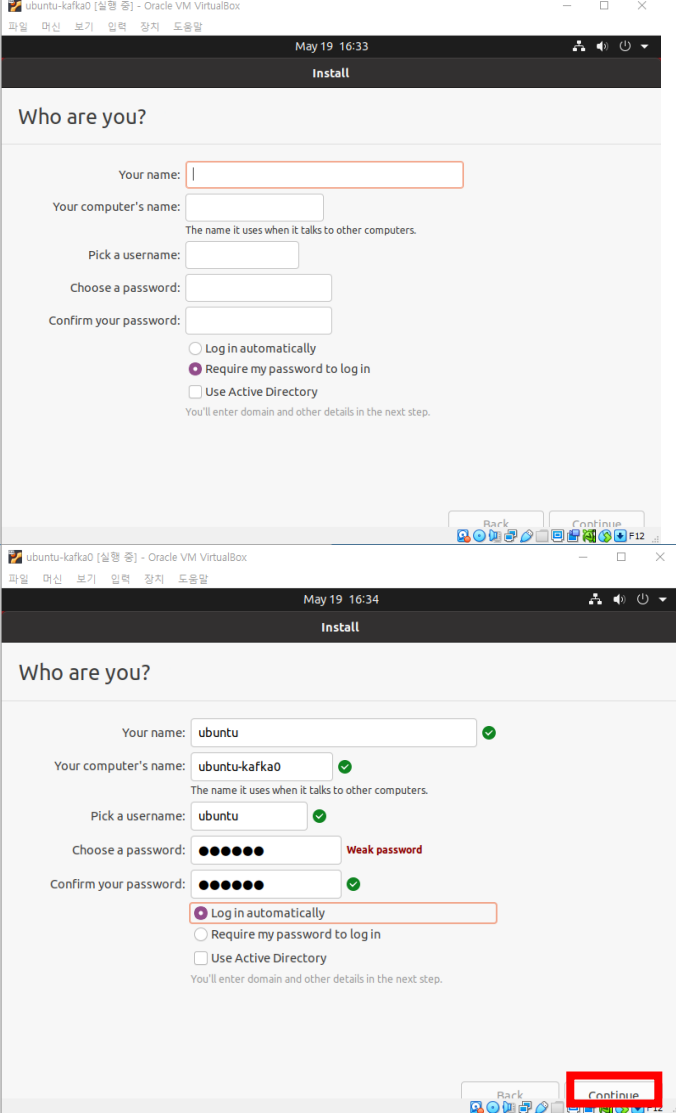


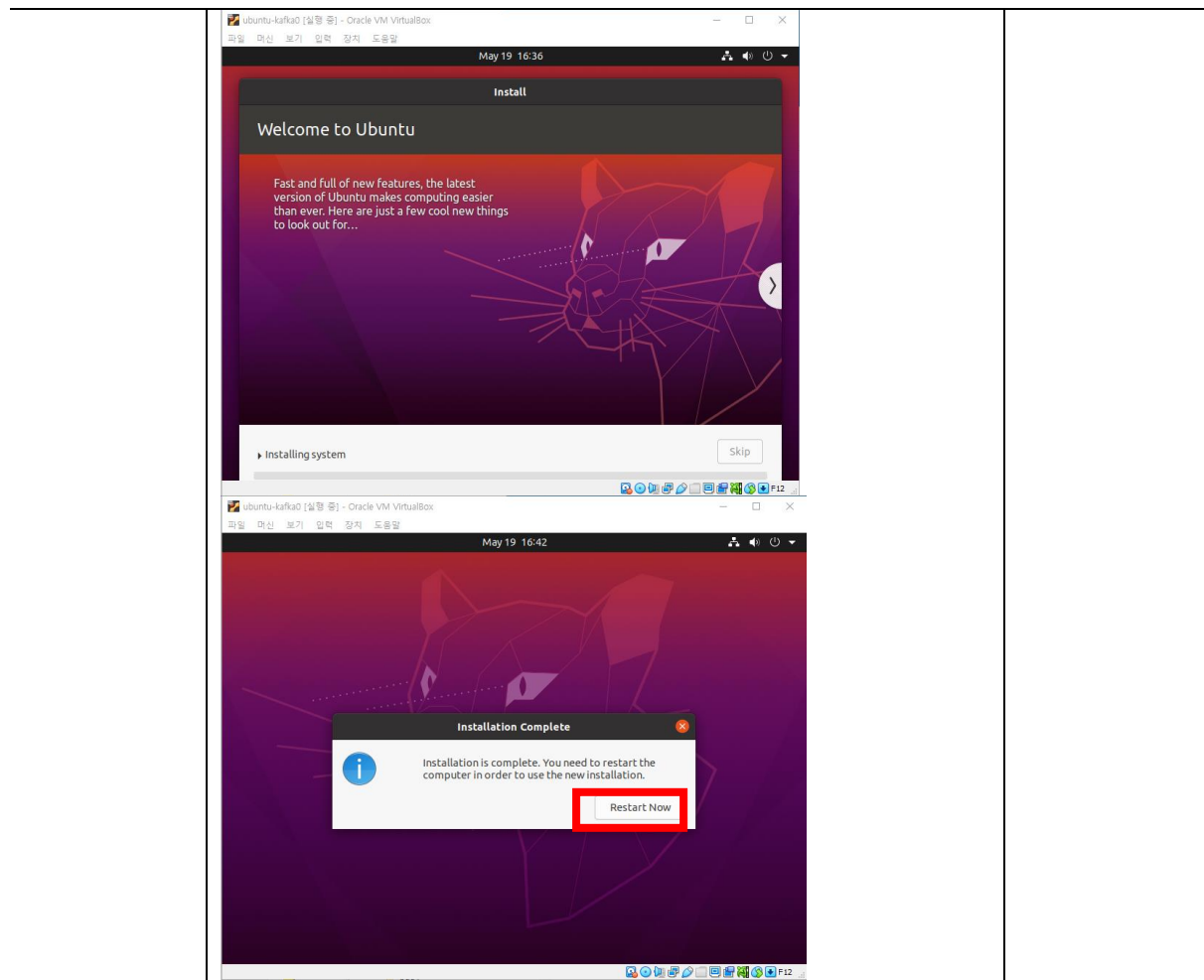
## 2 ubuntu install

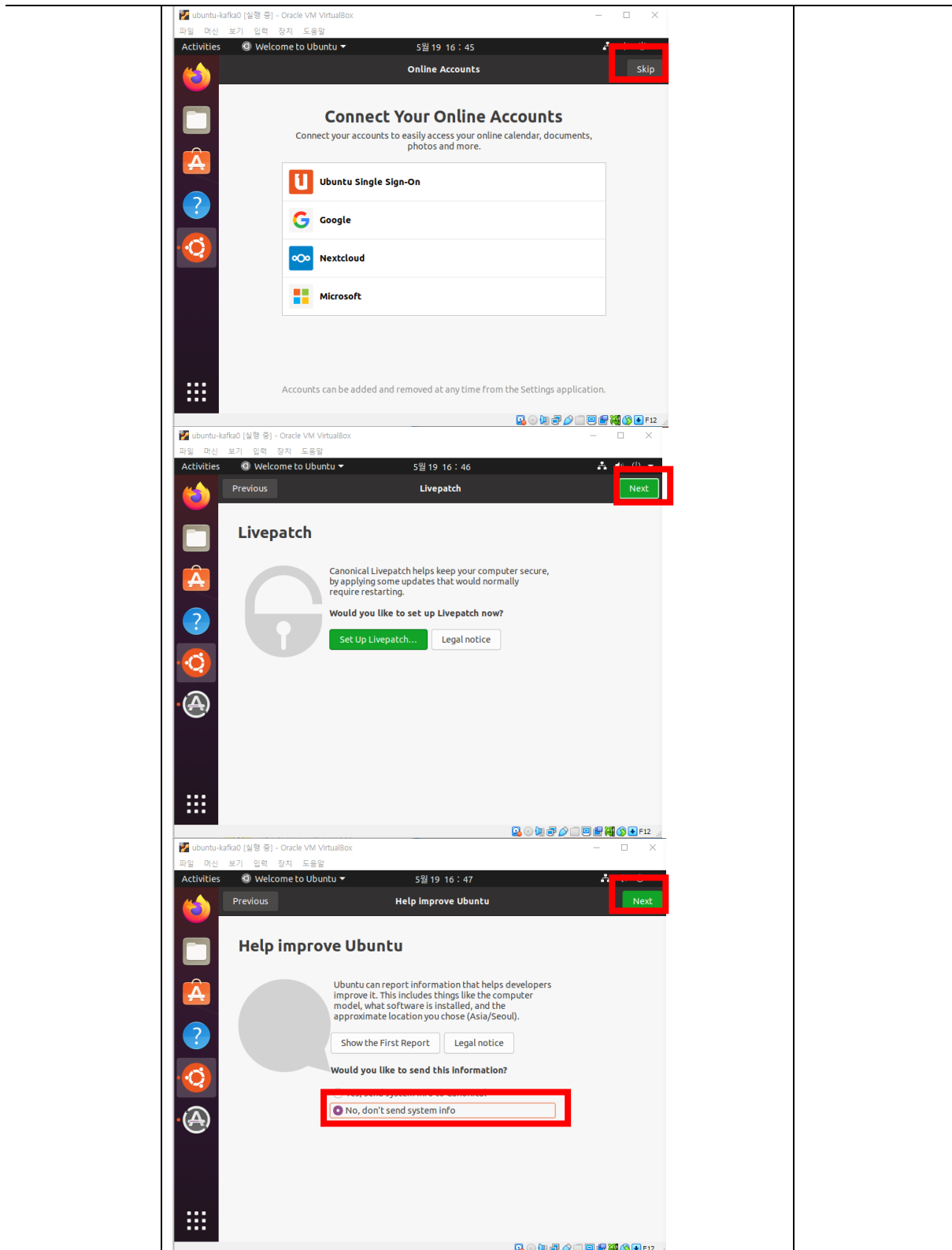
### 2.1 install

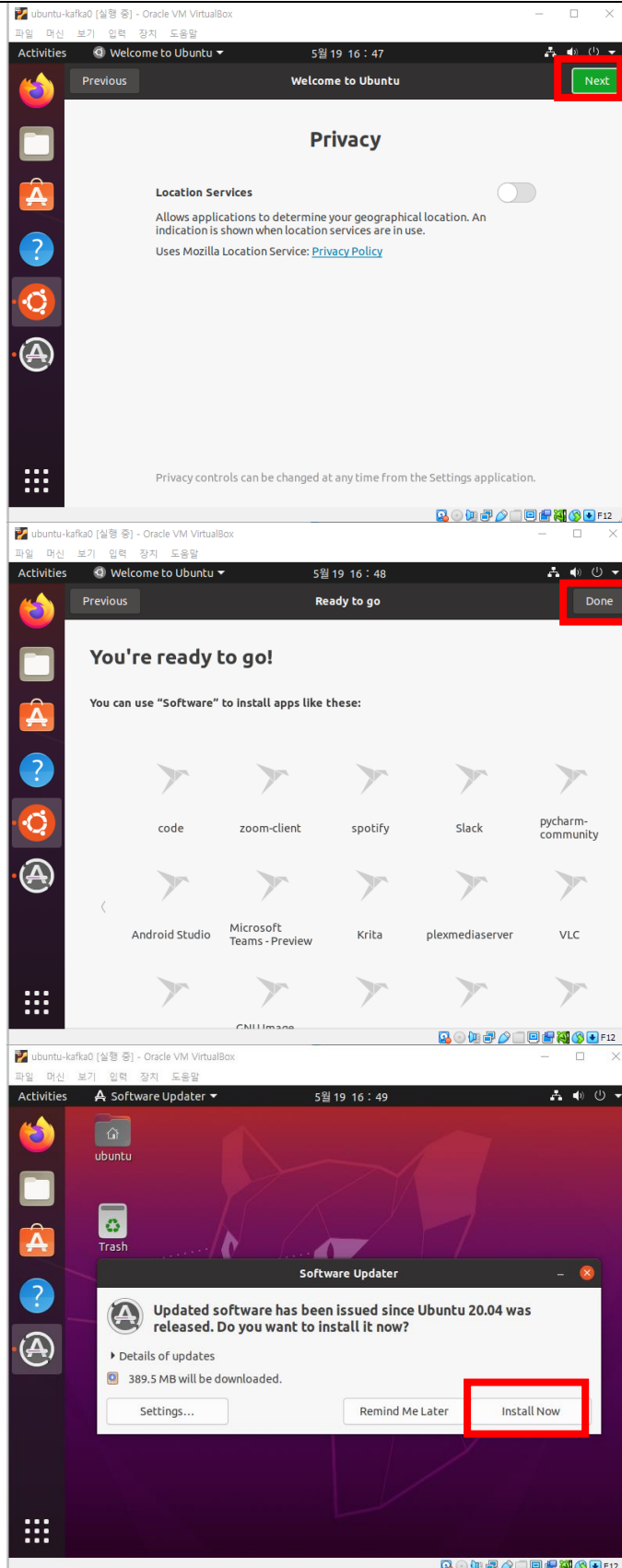
Install		English recommended
Select Keyboard Layout		
		

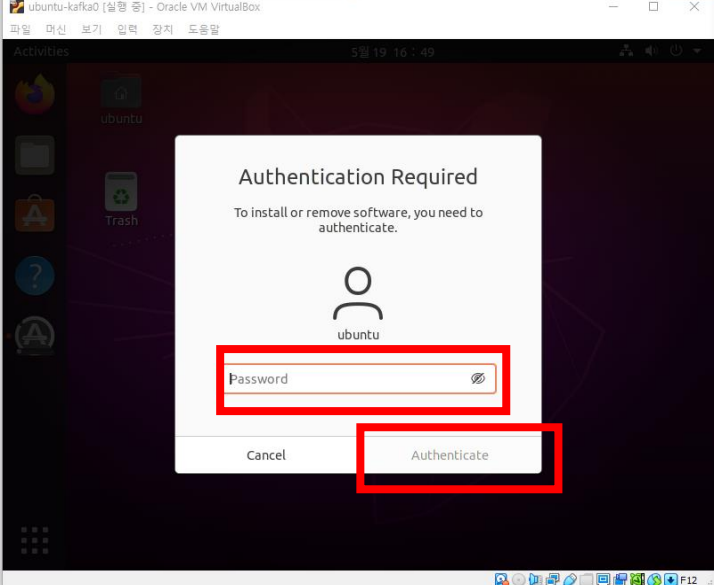
		
		
		

<p>Create Login ID</p>	 <p>The image shows two screenshots of the Ubuntu installer's 'Who are you?' screen. The top screenshot is the initial state with empty input fields. The bottom screenshot shows the fields filled with 'ubuntu' for the user name, 'ubuntu-kafka0' for the computer name, and 'ubuntu' for the username. The password field is marked as 'Weak password'. The 'Continue' button at the bottom right is highlighted with a red box.</p>	<p>id : ubuntu pw : ubuntu</p>
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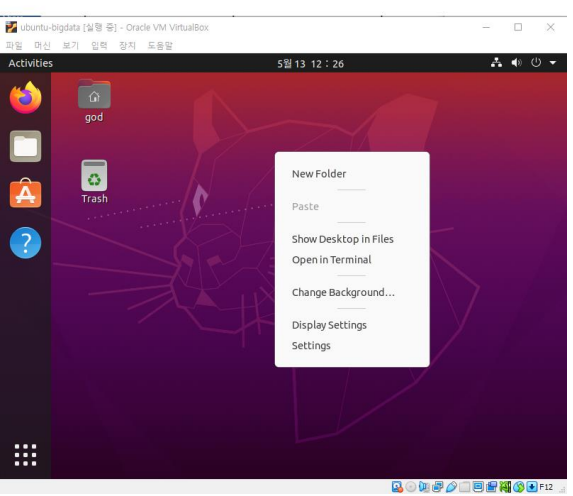






login		pw : ubuntu
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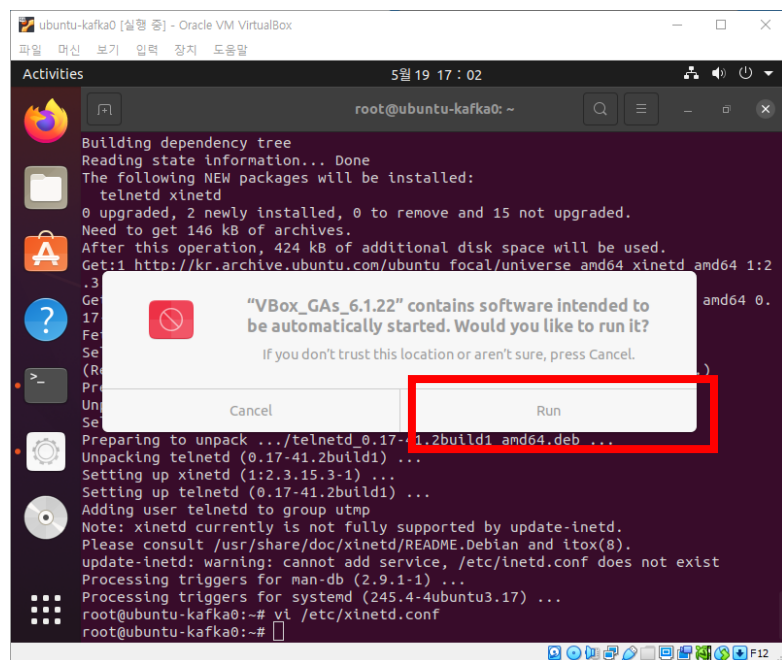
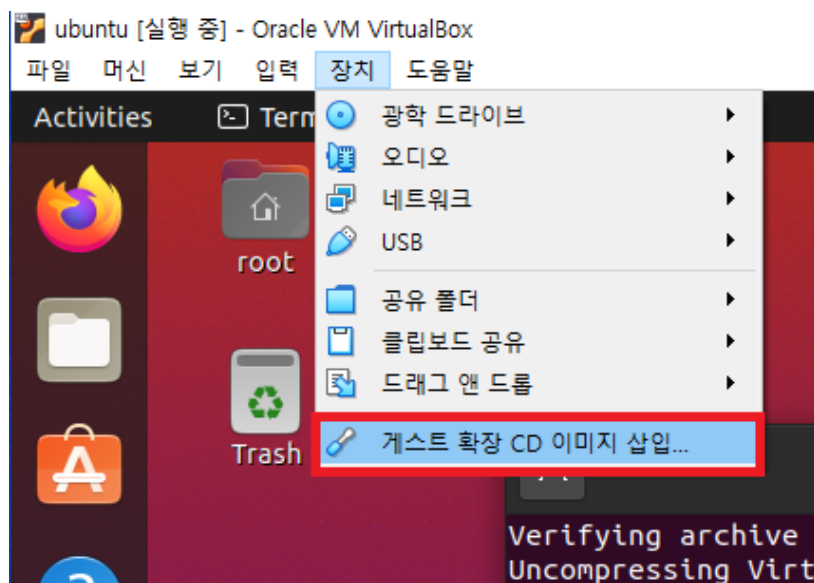
## 2.2 setup ubuntu

update & upgrade	<pre>ubuntu@ubuntu-ML:~# sudo su - ubuntu@ubuntu-ML:~# apt-get update ubuntu@ubuntu-ML:~# apt-get upgrade -y ubuntu@ubuntu-ML:~# shutdown -r 0</pre>
	
basic setup	<pre>ubuntu@ubuntu-ML:~# sudo su - ubuntu@ubuntu-ML:~# apt-get install -y build-essential</pre>



	<pre>edit /etc/gdm3/custom.conf</pre> <hr/> <pre>[daemon] AutomaticLoginEnable=true AutomaticLogin=root  [security] AllowRoot = true</pre> <hr/> <pre>edit /etc/pam.d/gdm-password</pre> <hr/> <pre>#auth required pam_succeed_if.so user != root quiet_success</pre> <hr/> <pre>edit /etc/pam.d/gdm-autologin</pre> <hr/> <pre>#auth required pam_succeed_if.so user != root quiet_success</pre> <hr/> <pre>root@ubuntu-ML:~# apt-get install -y xinetd telnetd</pre> <hr/> <pre>edit /etc/xinetd.conf</pre> <hr/> <pre>service telnet {     disable = no     flags = REUSE     socket_type = stream     wait = no     user = root     server = /usr/sbin/in.telnetd     log_on_failure = USERID }</pre> <hr/>
--	---

install  
guestaddion



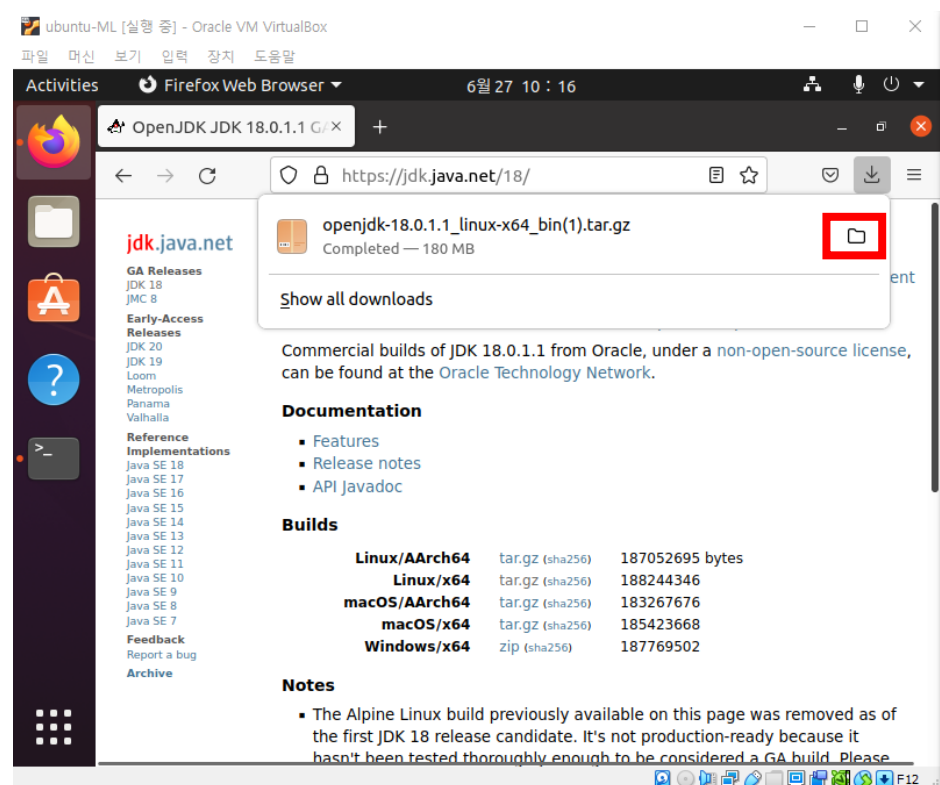
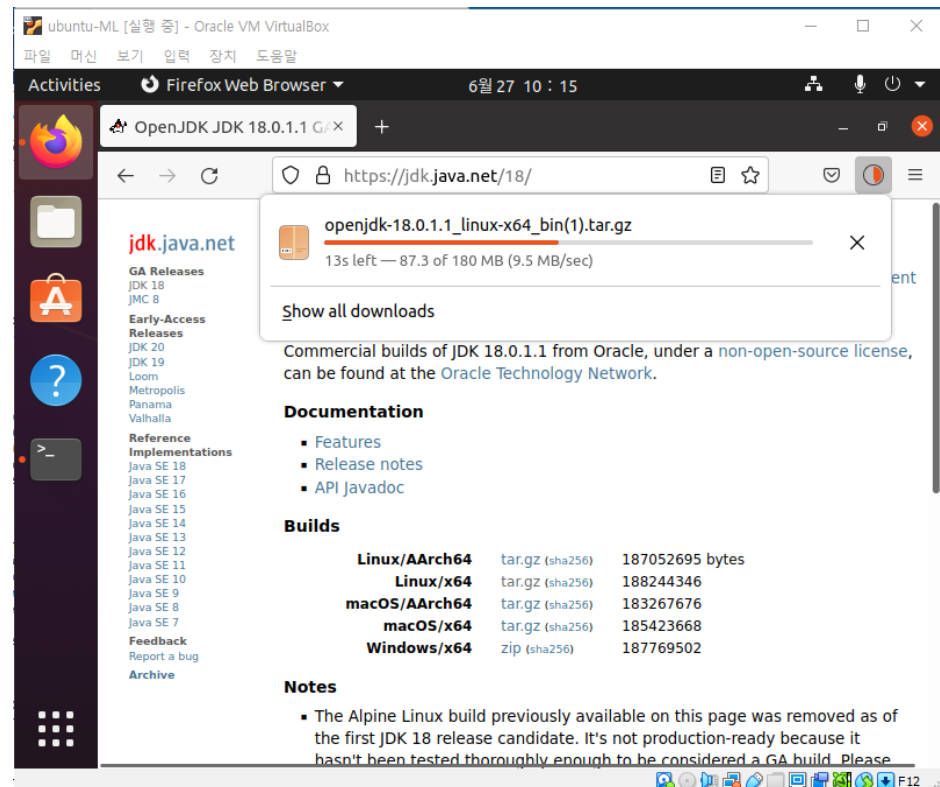
reboot

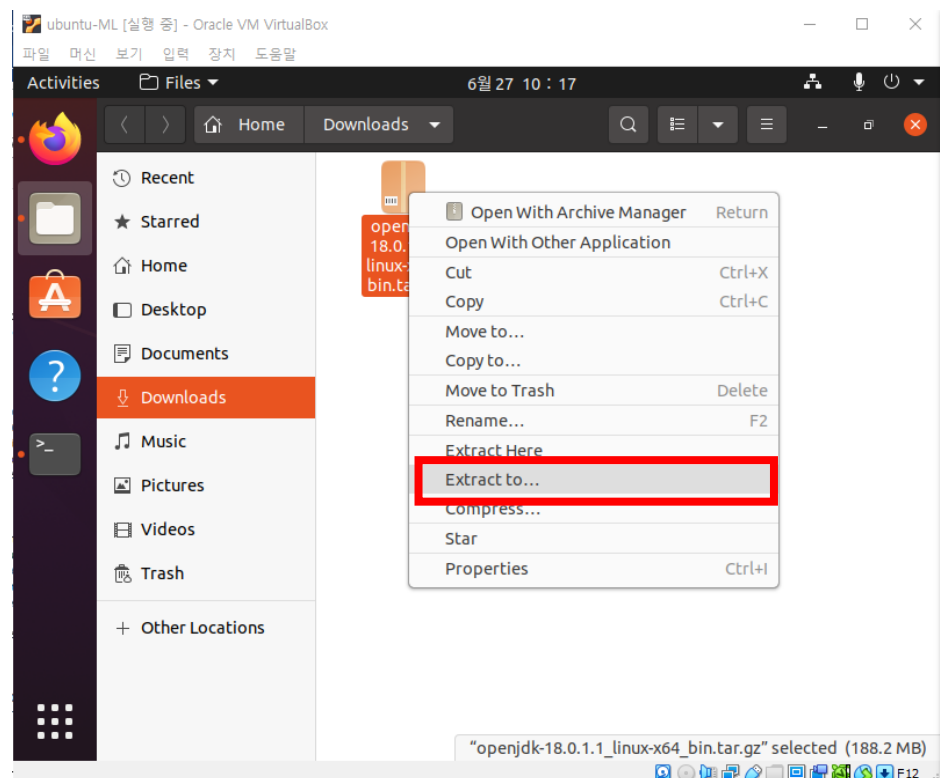
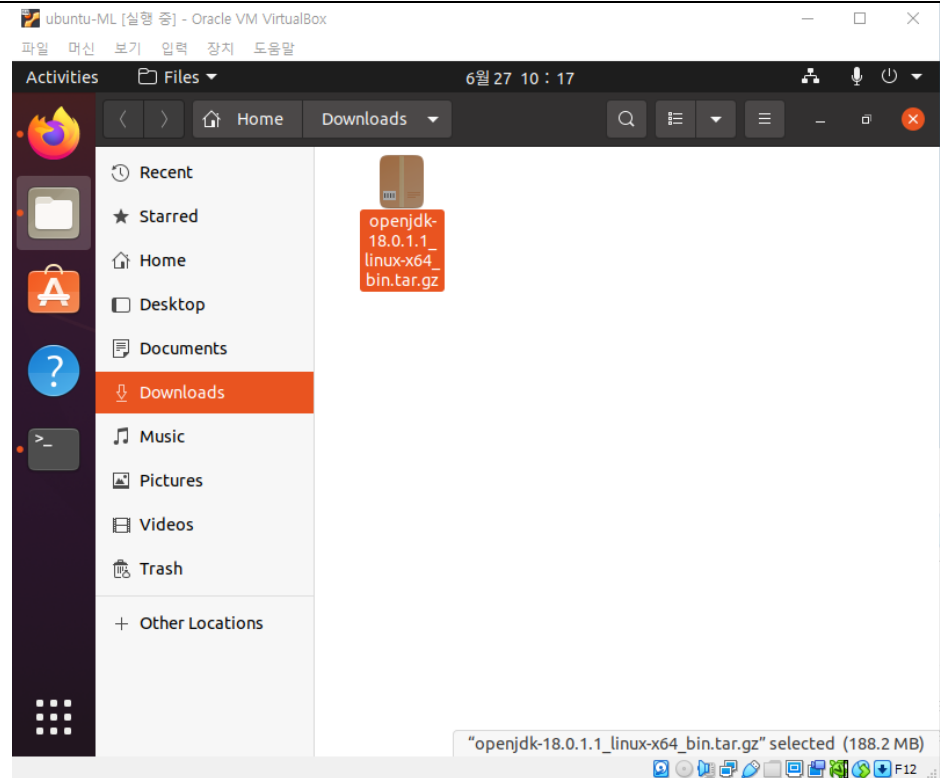
```
root@ubuntu-ML:~# shutdown -r 0
```

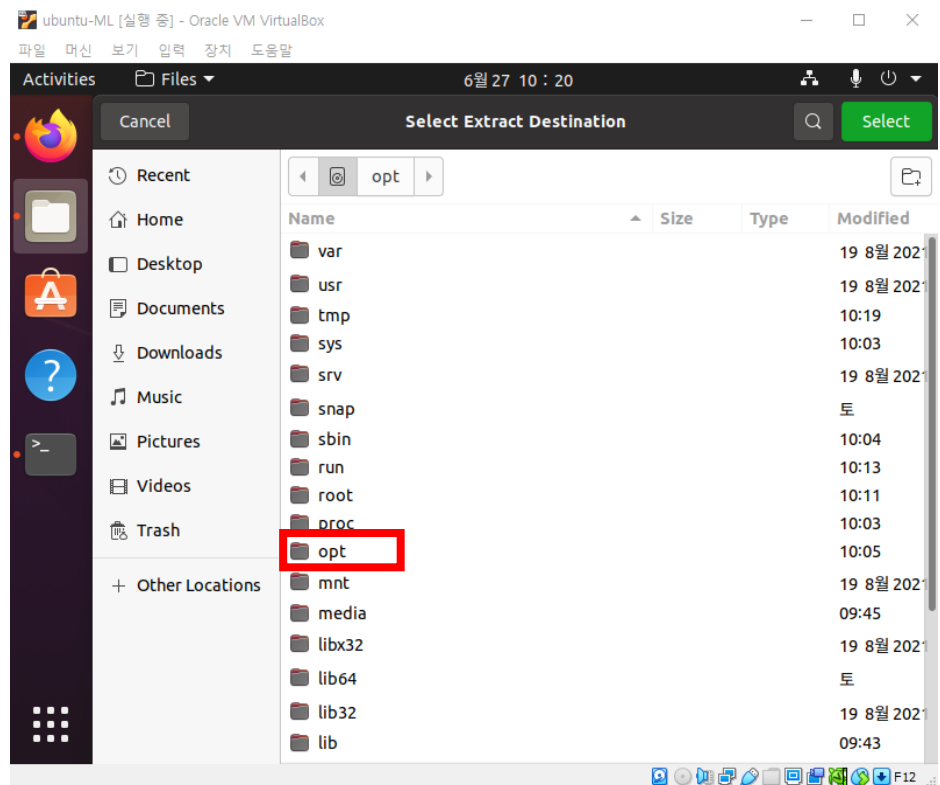
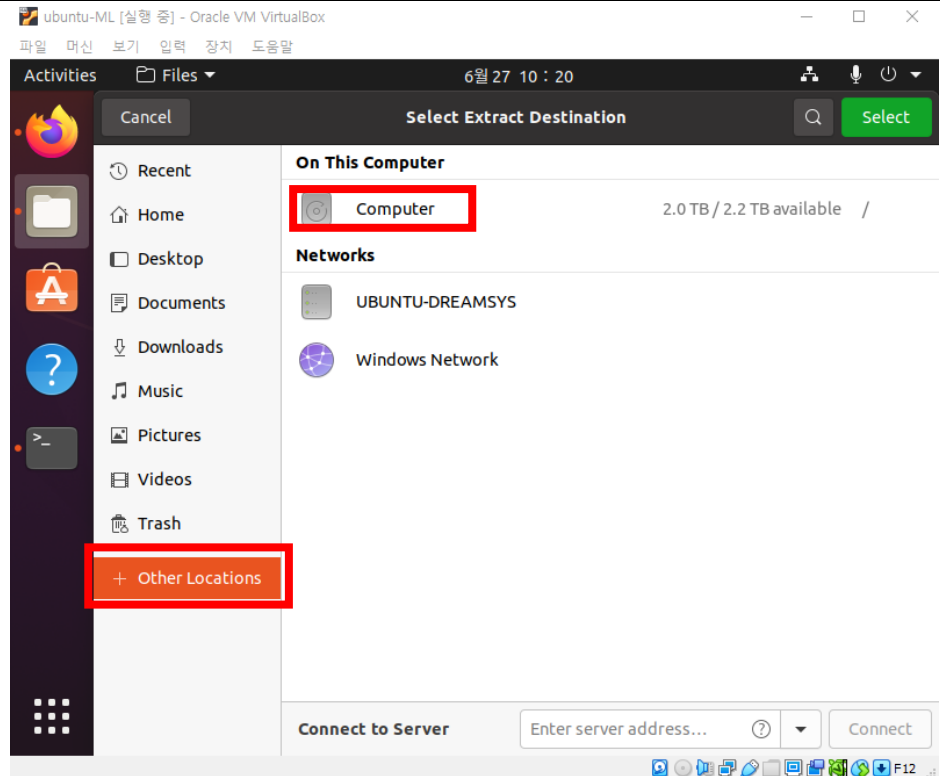
install openjdk

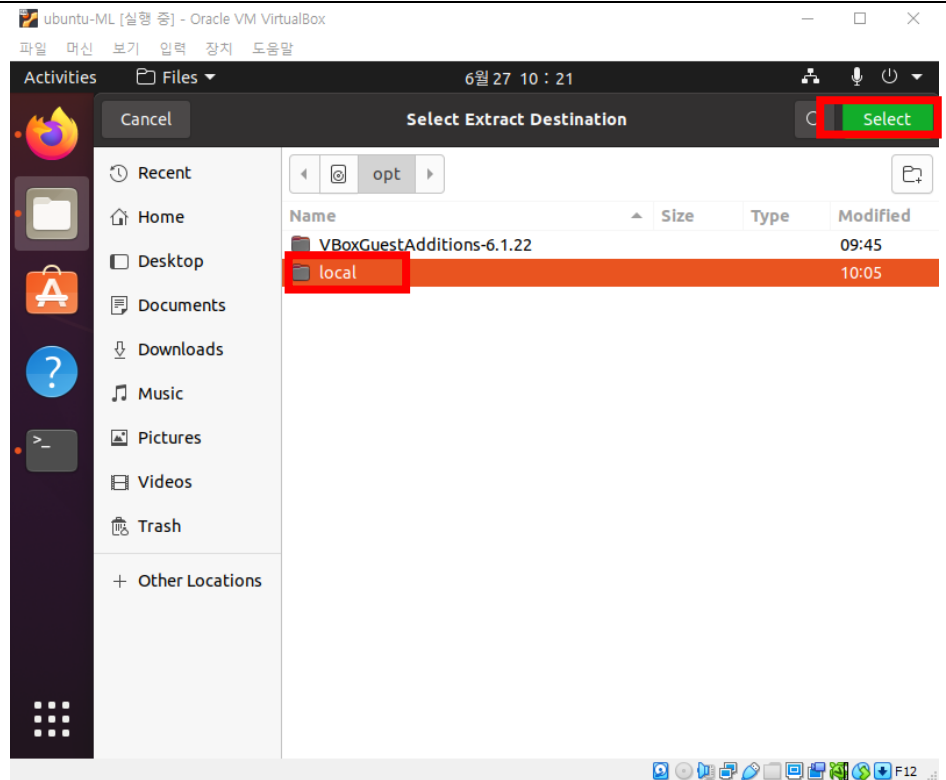
```
ubuntu@ubuntu-ML:~# mkdir /opt
ubuntu@ubuntu-ML:~# mkdir /opt/local
```











```
root@ubuntu-ML:~# cd /opt/local
root@ubuntu-ML:/opt/local# ls -al
total 12
drwxr-xr-x 3 root root 4096 6월 27 10:22 .
drwxr-xr-x 4 root root 4096 6월 27 10:05 ..
drwxr-xr-x 3 root root 4096 6월 27 10:22 openjdk-
18.0.1.1_linux-x64_bin
root@ubuntu-ML:/opt/local# ln -s openjdk-18.0.1.1_linux-
x64_bin/ openjdk
root@ubuntu-ML:/opt/local# ls -al
total 12
drwxr-xr-x 3 root root 4096 6월 27 10:24 .
drwxr-xr-x 4 root root 4096 6월 27 10:05 ..
lrwxrwxrwx 1 root root 31 6월 27 10:24 openjdk -> openjdk-
18.0.1.1_linux-x64_bin/
drwxr-xr-x 3 root root 4096 6월 27 10:22 openjdk-
18.0.1.1_linux-x64_bin
root@ubuntu-ML:/opt/local#
```

setup environments	edit ~/.toolchain
	root@ubuntu-ML:/opt# vi ~/.toolchain
	export JAVA_HOME=/opt/local/openjdk export PATH=\$JAVA_HOME:\$JAVA_HOME/bin:\$PATH:.
	edit ~/.bashrc
	root@ubuntu-ML:/opt# vi ~/.bashrc
	if [ -f ~/.toolchain ]; then . ~/.toolchain fi