

1.4 리눅스 설치

리눅스 설치

- 다양한 배포판

- 커널은 공유하고 배포판마다 조금씩 다른 데스크톱 환경이나 응용 프로그램 제공
- 레드햇(RedHat) : 상업용
- 우분투(Ubuntu), CentOS, 데비안(Debian), 페도라(Fedora) 등

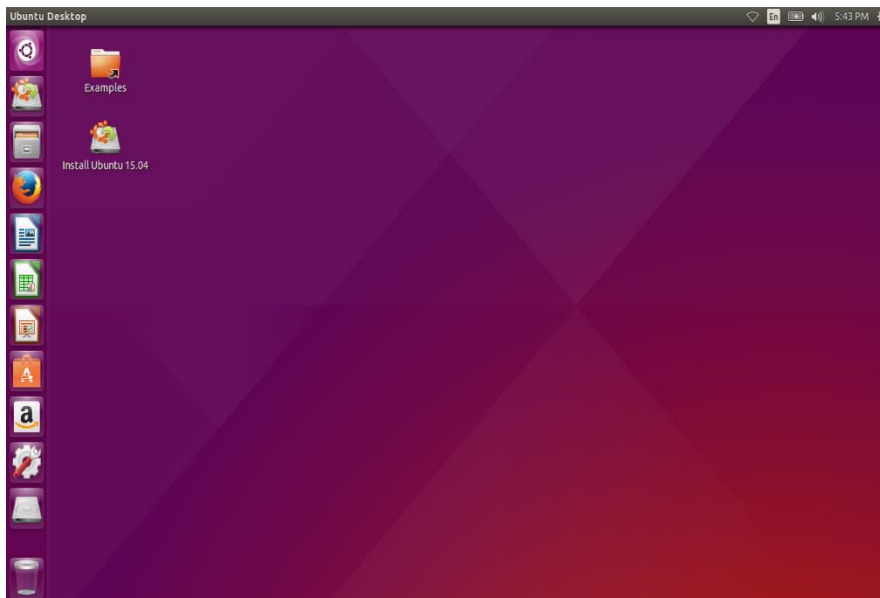
- 데스크톱 환경

- 사용하는 데스크톱 환경에 따라 사용방법이나 사용 가능한 응용 프로그램이 조금씩 다르다.
- GNOME, KDE, Unity

리눅스 배포판

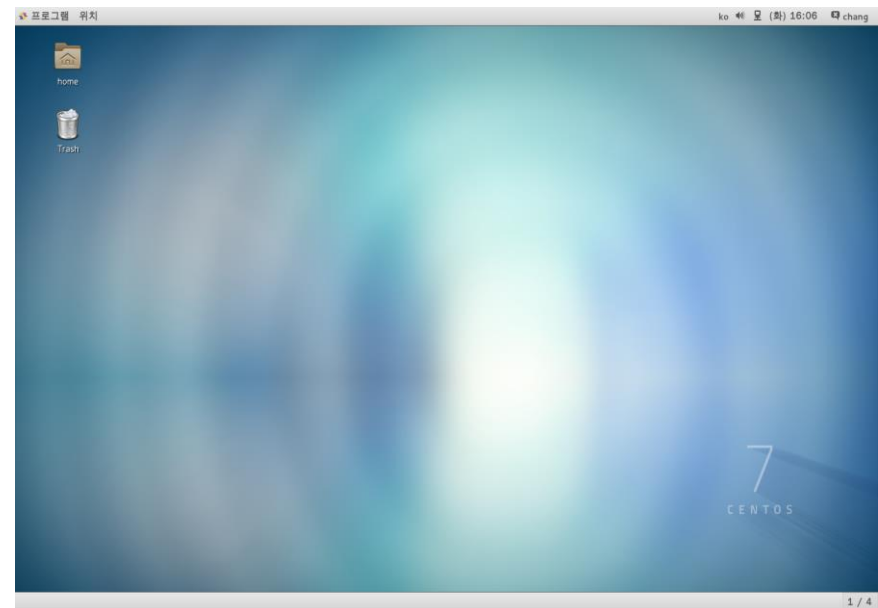
- 우분투(Ubuntu)

- 데스크톱에서 쉽게 사용할 수 있는 리눅스 배포판
- MS 윈도우즈 상에서 인터넷으로 쉽게 직접 설치도 가능
- <http://www.ubuntu.com>



- CentOS

- RedHat Enterprise 배포판을 기반으로 하는 무료 운영체제
- 주로 서버용으로 많이 사용되며
- 데스크톱용, 워크스테이션용도 제공
- <http://www.centos.org>

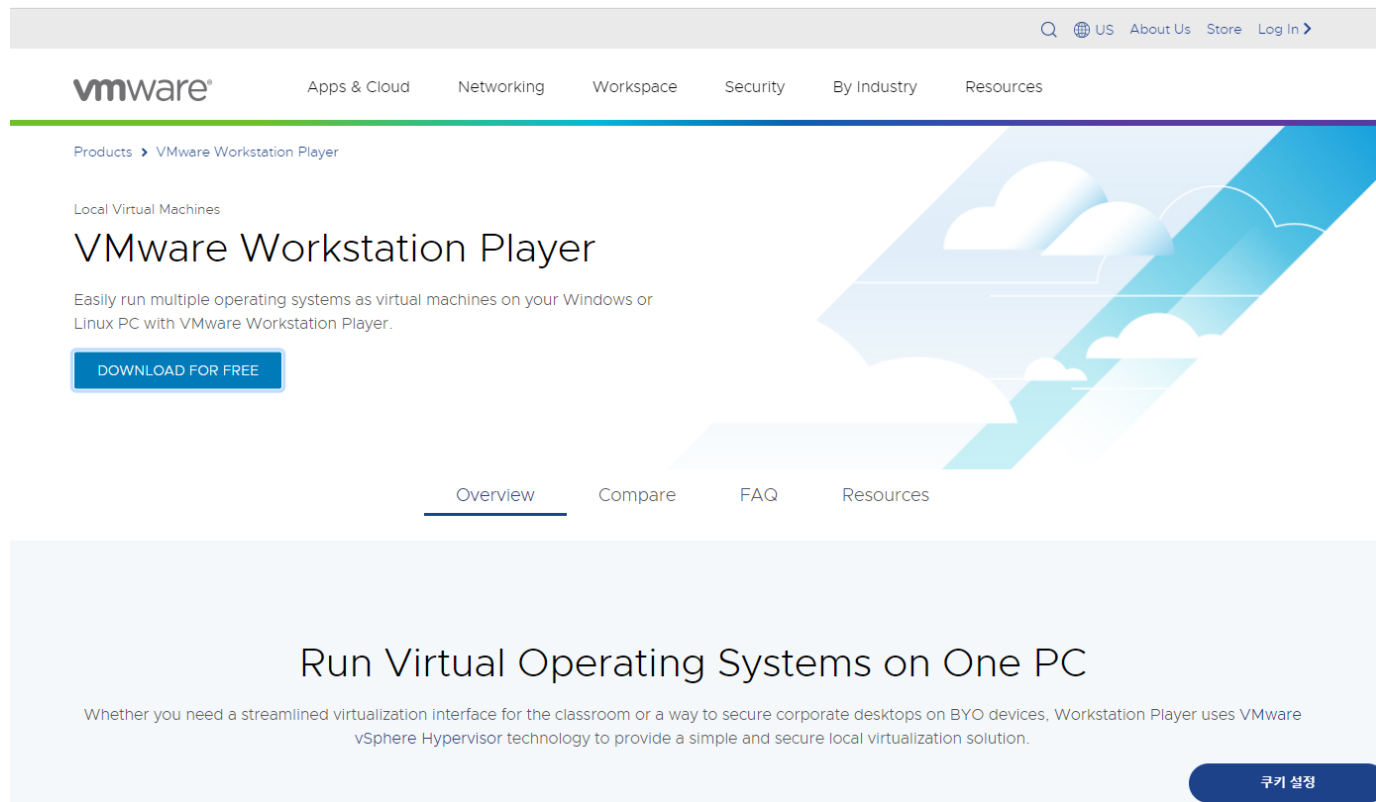


사용환경 옵션

- PC에 전용으로 설치
 - 단독
 - 멀티 부팅
- Virtual Machine
- 원격 접속

Virtual Machine S/W

- VMware Workstation Player
 - <https://www.vmware.com/>



Virtual Machine S/W

- Oracle VirtualBox
 - <https://www.virtualbox.org/>



The screenshot shows the Oracle VirtualBox website. On the left is a navigation menu with links: About, Screenshots, Downloads, Documentation (with sub-links for End-user docs and Technical docs), Contribute, and Community. The main content area features the VirtualBox logo, a welcome message, a paragraph about the software's capabilities and licensing, a list of supported operating systems, and a paragraph about development and community. A large blue button with white text says 'Download VirtualBox 6.1'. Below this is a 'Hot picks' section with three bullet points: 'Pre-built virtual machines for developers at Oracle Tech Network', 'Hyperbox Open-source Virtual Infrastructure Manager project site', and 'phpVirtualBox AJAX web interface project site'. At the bottom, there is an Oracle logo and a footer with links for Contact, Privacy policy, and Terms of Use.

VirtualBox
Welcome to VirtualBox.org!

VirtualBox is a powerful x86 and AMD64/Intel64 [virtualization](#) product for enterprise as well as home use. Not only is VirtualBox an extremely feature rich, high performance product for enterprise customers, it is also the only professional solution that is freely available as Open Source Software under the terms of the GNU General Public License (GPL) version 2. See "[About VirtualBox](#)" for an introduction.

Presently, VirtualBox runs on Windows, Linux, Macintosh, and Solaris hosts and supports a large number of [guest operating systems](#) including but not limited to Windows (NT 4.0, 2000, XP, Server 2003, Vista, Windows 7, Windows 8, Windows 10), DOS/Windows 3.x, Linux (2.4, 2.6, 3.x and 4.x), Solaris and OpenSolaris, OS/2, and OpenBSD.

VirtualBox is being actively developed with frequent releases and has an ever growing list of features, supported guest operating systems and platforms it runs on. VirtualBox is a community effort backed by a dedicated company: everyone is encouraged to contribute while Oracle ensures the product always meets professional quality criteria.

Download VirtualBox 6.1

Hot picks:

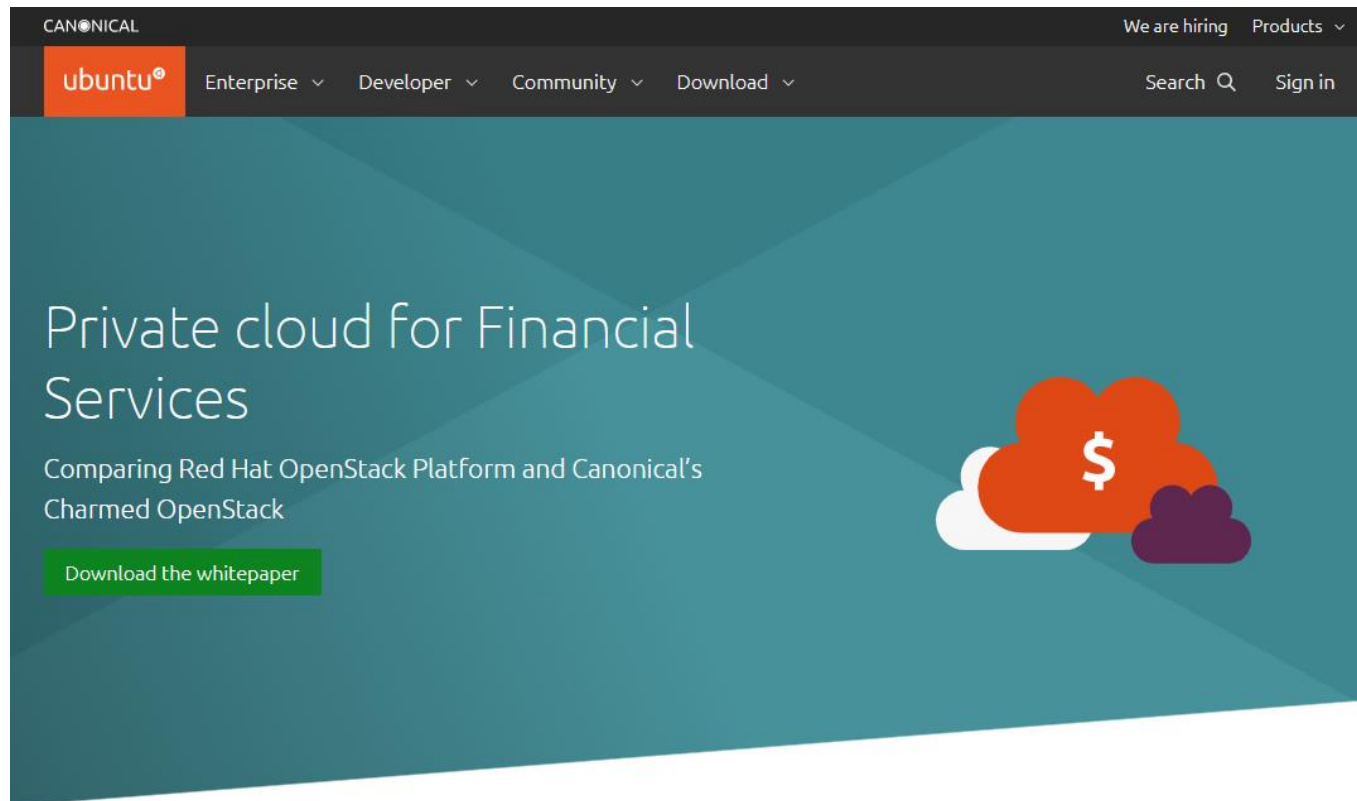
- Pre-built virtual machines for developers at [Oracle Tech Network](#)
- **Hyperbox** Open-source Virtual Infrastructure Manager [project site](#)
- **phpVirtualBox** AJAX web interface [project site](#)

ORACLE

[Contact](#) - [Privacy policy](#) - [Terms of Use](#)

Linux 배포판 (Ubuntu)

- <https://ubuntu.com/>



CentOS users, 6 things to know when considering a migration to Ubuntu LTS >

Linux 배포판 (Ubuntu)

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Ubuntu Desktop ▸

Download Ubuntu desktop and replace your current operating system whether it's Windows or Mac OS, or, run Ubuntu alongside it.

20.04 LTS

21.04

Ubuntu Server ▸

The most popular server Linux in the cloud and data centre, you can rely on Ubuntu Server and its five years of guaranteed free upgrades.

Get Ubuntu Server

Mac and Windows

ARM

IBM Power

s390x

Ubuntu for IoT ▸

Are you a developer who wants to try snappy Ubuntu Core or classic Ubuntu on an IoT board?

Raspberry Pi 2, 3 or 4

Intel NUC

KVM

Qualcomm Dragonboard 410c

UP² IoT Grove

Intel IEI TANK 870

Ubuntu Cloud ▸

Use Ubuntu optimised and certified server images on most major clouds.

Get started on Amazon AWS, Microsoft Azure, Google Cloud Platform and more...

Download cloud images for local development and testing

TUTORIALS

If you are already running Ubuntu - you can [upgrade](#) with the Software Updater

Burn a DVD on [Ubuntu](#), [macOS](#), or [Windows](#). Create a bootable USB stick on [Ubuntu](#), [macOS](#), or [Windows](#)

Installation guides for [Ubuntu Desktop](#) and [Ubuntu Server](#)

You can learn how to [try Ubuntu before you install](#)

READ THE DOCS

Read the official docs for [Ubuntu Desktop](#), [Ubuntu Server](#), and [Ubuntu Core](#)

UBUNTU APPLIANCES

An [Ubuntu Appliance](#) is an official system image which blends a single application with Ubuntu Core. Certified to run on Raspberry Pi and PC boards.

OTHER WAYS TO DOWNLOAD

Ubuntu is available via [BitTorrents](#) and via a minimal [network installer](#) that allows you to customise what is installed, such as additional languages. You can also find [older releases](#).

UBUNTU FLAVOURS

Find new ways to experience Ubuntu, each with their own choice of default applications and settings.

[Kubuntu](#)

[Lubuntu](#)

[Ubuntu Budgie](#)

[Ubuntu Kylin](#)

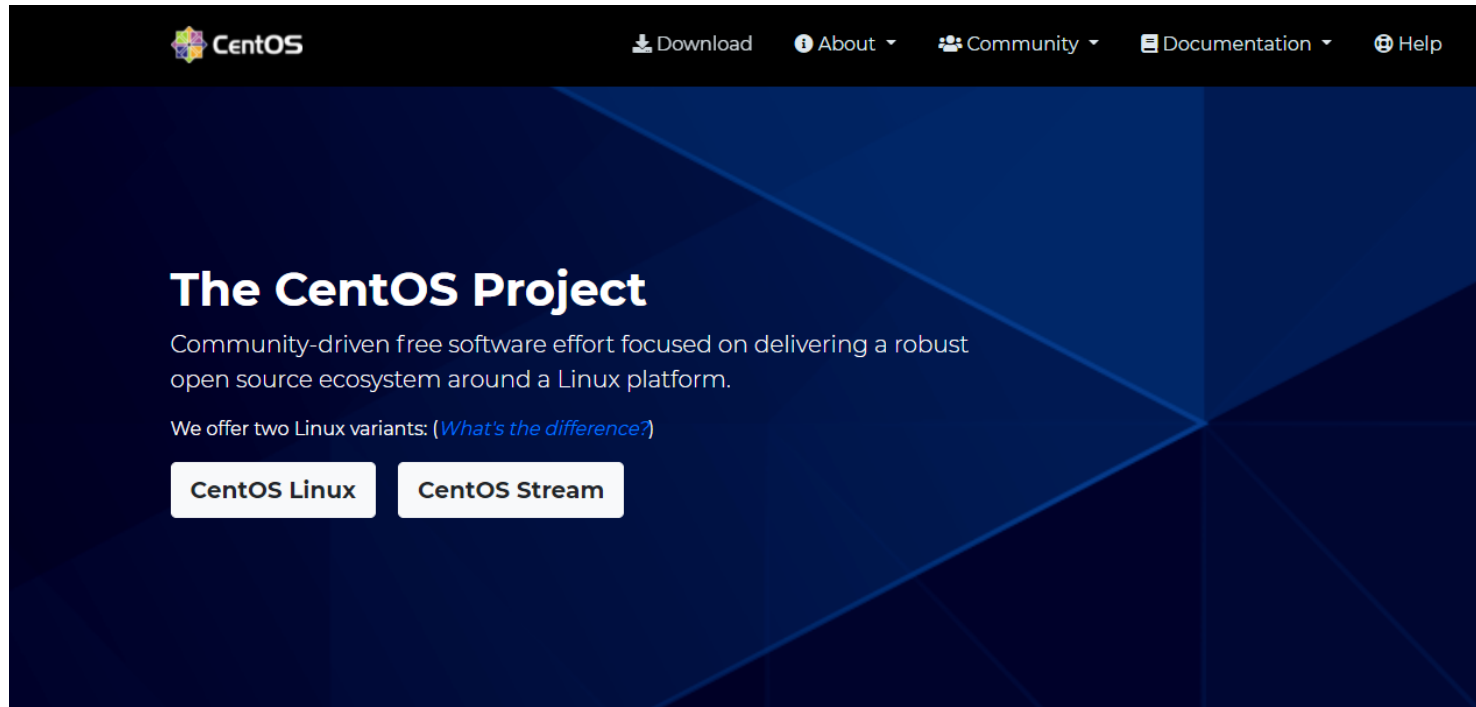
[Ubuntu MATE](#)

[Ubuntu Studio](#)

[Xubuntu](#)

Linux 배포판 (Centos)

- <https://www.centos.org/>



News and events

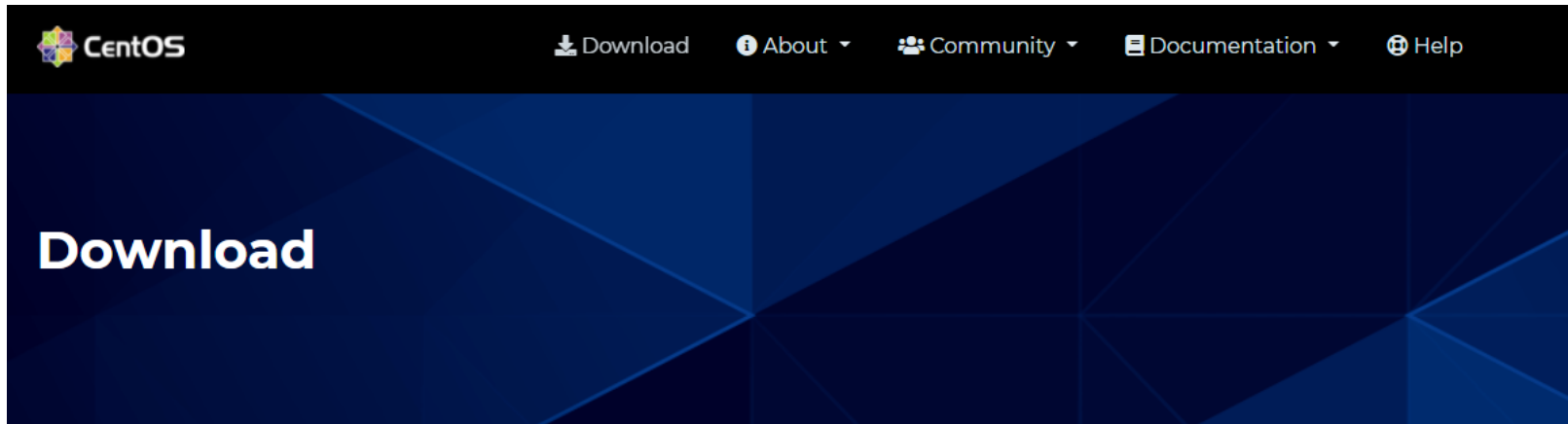
October 7th, 8th CentOS Dojo

The [Call for Presentations is now open](#) for our CentOS Dojo which will be held on October 7th and 8th, 2023. All CentOS Linux and CentOS Stream users are encouraged to submit a presentation.

Sponsorship

CentOS would not be possible without the support of our sponsors. We would like to thank the following product/service for being a CentOS sponsor:

Linux 배포판 (Centos)



CentOS Linux

| 8 (2105) 7 (2009) | | |
|---|----------------------|--|
| ISO | Packages | Others |
| x86_64 | RPMs | Cloud Containers Vagrant |
| ARM64 (aarch64) | RPMs | Cloud Containers Vagrant |
| IBM Power (ppc64le) | RPMs | Cloud Containers Vagrant |
| Release Notes Release Email Documentation | | |
| End-of-life | | |
| 2021-12-31* | | |

CentOS Stream

| 9 8 | | |
|---|----------------------|--|
| ISO | Packages | Others |
| x86_64 | RPMs | Cloud Containers Vagrant |
| ARM64 (aarch64) | RPMs | Cloud Containers Vagrant |
| IBM Power (ppc64le) | RPMs | Cloud Containers Vagrant |
| Release Notes Release Email Documentation | | |
| End-of-life | | |
| 2024-05-31 | | |

Linux 배포판 (Centos)



Download About ▾ Community ▾ Documentation ▾ Help

In order to conserve the limited bandwidth available, ISO images are not downloadable from mirror.centos.org

The following mirrors in your region should have the ISO images available:

http://ftp.kaist.ac.kr/CentOS/8.4.2105/isos/x86_64/
http://mirror.anigil.com/CentOS/8.4.2105/isos/x86_64/
http://mirror.navercorp.com/centos/8.4.2105/isos/x86_64/
http://mirror.kakao.com/centos/8.4.2105/isos/x86_64/

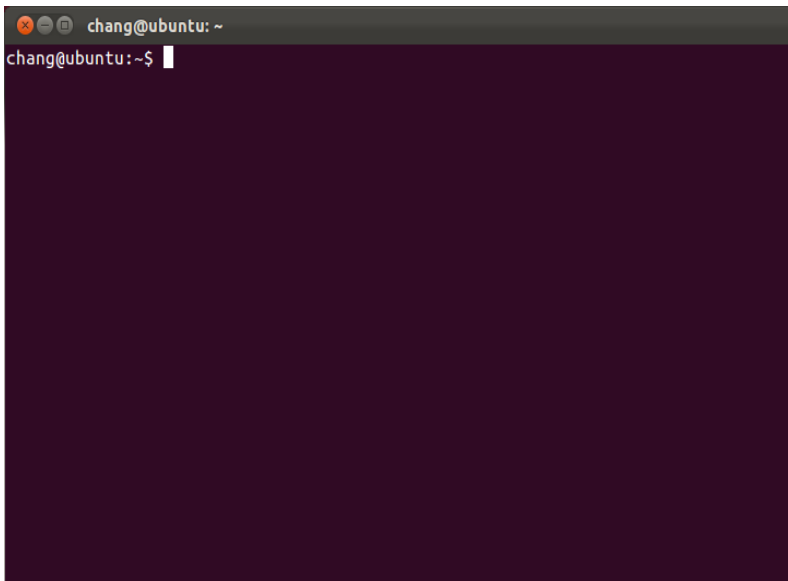
Other mirrors further away:

http://mirrors.cat.net/centos/8.4.2105/isos/x86_64/
http://ftp.nara.wide.ad.jp/pub/Linux/centos/8.4.2105/isos/x86_64/
http://ftp.ijj.ad.jp/pub/linux/centos/8.4.2105/isos/x86_64/
http://ftp.jaist.ac.jp/pub/Linux/CentOS/8.4.2105/isos/x86_64/
http://ftp.yz.yamagata-u.ac.jp/pub/linux/centos/8.4.2105/isos/x86_64/
http://ftp-srv2.kddilabs.jp/Linux/packages/CentOS/8.4.2105/isos/x86_64/
http://ty1.mirror.newmediaexpress.com/centos/8.4.2105/isos/x86_64/
http://ftp.tsukuba.wide.ad.jp/Linux/centos/8.4.2105/isos/x86_64/
http://ftp.riken.jp/Linux/centos/8.4.2105/isos/x86_64/
http://mirrors.bupt.edu.cn/centos/8.4.2105/isos/x86_64/
http://mirrors.nju.edu.cn/centos/8.4.2105/isos/x86_64/
http://mirrors.aliyun.com/centos/8.4.2105/isos/x86_64/
http://mirrors.neusoft.edu.cn/centos/8.4.2105/isos/x86_64/
http://mirrors.cqu.edu.cn/CentOS/8.4.2105/isos/x86_64/
http://mirrors.tuna.tsinghua.edu.cn/centos/8.4.2105/isos/x86_64/
http://mirrors.huaweicloud.com/centos/8.4.2105/isos/x86_64/
http://mirrors.ustc.edu.cn/centos/8.4.2105/isos/x86_64/

1.5 사용 환경

직접 로그인

- 사용 가능한 유닉스/리눅스 시스템이 있는 경우
 - X-윈도우(X-window)로 직접 로그인하여
 - 바로 X-윈도우 시스템을 사용할 수 있다.
- 우분투, CentOS 터미널 화면

A terminal window with a dark purple background. The title bar shows 'chang@ubuntu: ~'. The prompt is 'chang@ubuntu:~\$' followed by a cursor.

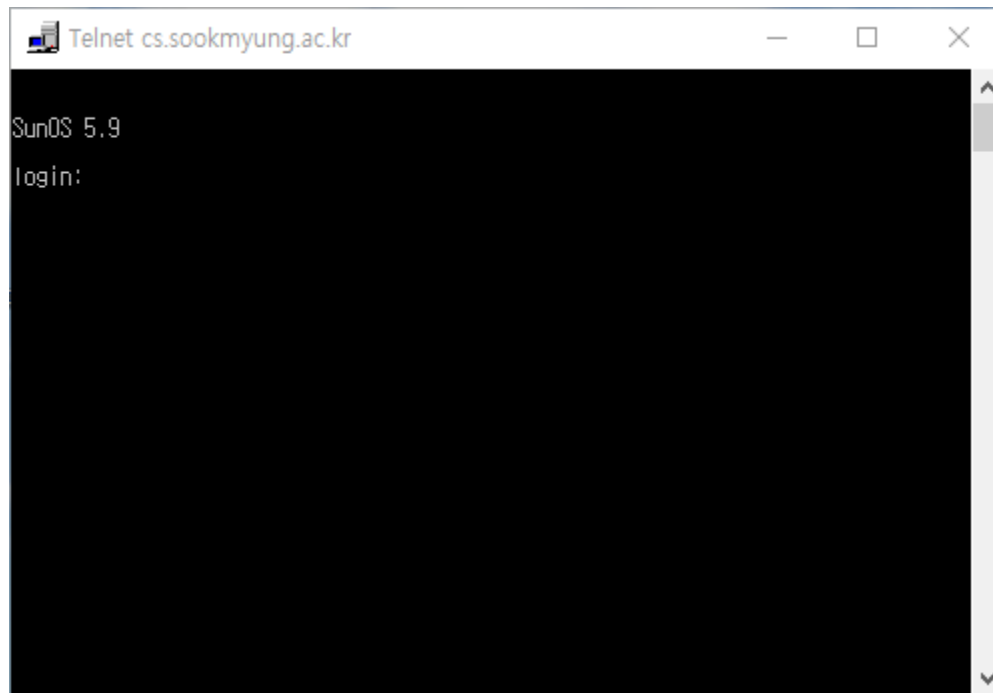
```
chang@ubuntu: ~  
chang@ubuntu:~$
```

A terminal window with a light gray background. The title bar shows 'chang@linux:~/바탕화면'. The menu bar includes '파일(F)', '편집(E)', '보기(V)', '검색(S)', '터미널(T)', and '도움말(H)'. The prompt is '[chang@linux 바탕 화면] \$' followed by a cursor.

```
chang@linux:~/바탕화면  
파일(F) 편집(E) 보기(V) 검색(S) 터미널(T) 도움말(H)  
[chang@linux 바탕 화면] $
```

원격 로그인

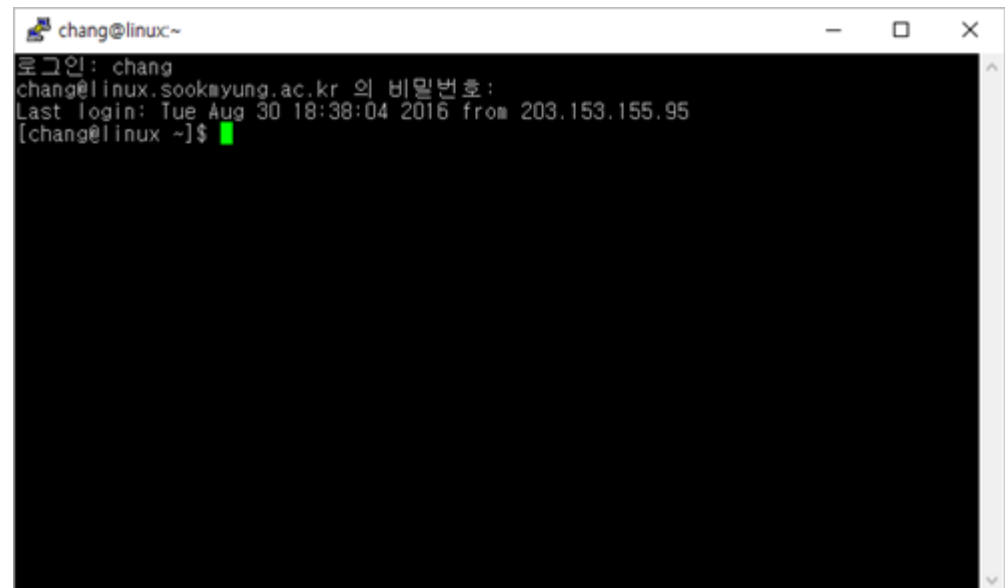
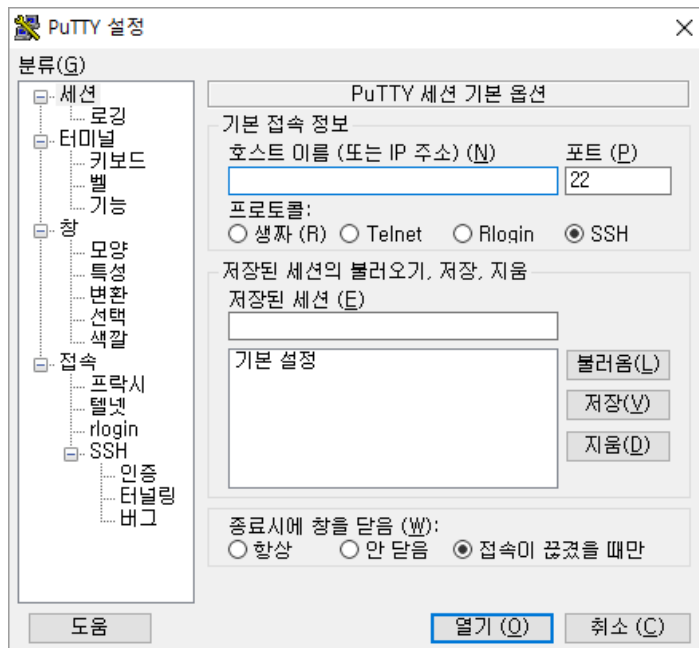
- MS 윈도우에서 telnet 이용



원격 로그인

- PuTTY 사용

- <http://www.chiark.greenend.org.uk/~sgtatham/putty>
- telnet, ssh 등 이용하여 원격 로그인



1.6 사용자 계정 관리

시스템 관리자

- 슈퍼유저(superuser)
 - 시스템을 관리할 수 있는 사용자로
 - 슈퍼유저가 사용하는 계정이 root이다
- 슈퍼유저 로그인
 - 직접 root 계정으로 로그인
 - 다른 계정으로 로그인 후
\$ su [사용자명]

사용자 계정 추가

- 사용자 추가/삭제
 - # useradd [옵션] 사용자명 # userdel 사용자명
 - # passwd 사용자명
 - 관련 파일: /etc/passwd, /etc/shadow