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Software

x11vnc remote access server installation and usage summary

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1 Introduction

x11vnc is a VNC server program that allows you to connect to a Linux environment remotely. It is mainly used as a VNC server program because it can be easily installed and used in Ubuntu 16.04 LTS environments. This post explains the installation method and various options.

2 Installation

x11vnc can be easily installed by opening a terminal and running the command below.



```
sudo apt-get install x11vnc
```

3 Registering daemon services

If you register x11vnc as a daemon service, the program will automatically run in the background when the PC reboots. So you don't have to start the server program every time you boot. Create the x11vnc.service file in the /lib/systemd/system folder as follows.

```
sudo vim /lib/systemd/system/x11vnc.service
```

```
# write codes below.
```

```
[Unit]
```

```
Description="x11vnc"
```

```
Requires=display-manager.service
```

```
After=display-manager.service
```

```
[Service]
```

```
ExecStart=/usr/bin/x11vnc -xkb -norc -forever -shared -display :0 -auth guess -rfbauth /etc/x11vnc.pass -o /var/log/x11vnc.log -rfbport 5902
```

```
ExecStop=/usr/bin/killall x11vnc
```

```
Restart=on-failure
```

```
Restart-sec=2
```

```
[Install]
```

```
WantedBy=multi-user.target
```

After saving the above file, add it to the service list through daemon reload.

```
$ sudo systemctl daemon-reload
```

Start the service. Also use the enable command to have it run automatically at boot time.

```
$ sudo systemctl start x11vnc.service
```

```
$ sudo systemctl enable x11vnc.service
```

4 Set a password



x11vnc can be connected without a password by default. If you want to set a password when connecting for security, set it with the command below.

```
sudo x11vnc -storepasswd
```

Out[]:

Enter VNC passwd: [enter new password]

Verify password: [enter the new password again]

Write password to /home/ubuntu/.vnc/passwd? [y]/n y

Password written to : /home/ubuntu/.vnc/passwd

When the above command completes, a .vnc/passwd file is created. Copy the saved file to the /etc/x11vnc.pass file.

```
$ sudo cp ~/.vnc/passwd /etc/x11vnc.pass
```

Restart the x11vnc server for the password to take effect.

```
$ sudo service x11vnc restart
```

5 options

[Service]

ExecStart=/usr/bin/x11vnc -xkb -norc -forever -shared -display :0 -auth guess -rfbauth /etc/x11vnc.pass -o /var/log/x11vnc.log -rfbport 5902 -allow 123.23 # 123.23.x.x 의 IP 대역만 접속할 수 있다.

- **forever**: Keeps the server running even after disconnecting once
- **shared**: Allow multiple clients to connect (if not, only 1 person can connect)
- **rfbport**: Use a specific port number as the VNC port (port 5902 is used in this article)
- **rfbauth**: Set the password file path for VNC connection via password (connect the file created via the -storepasswd command)
- **o**: Path to the file that stores the VNC connection log
- **allow**: Set up a whitelist to allow access only to permitted IPs.

