

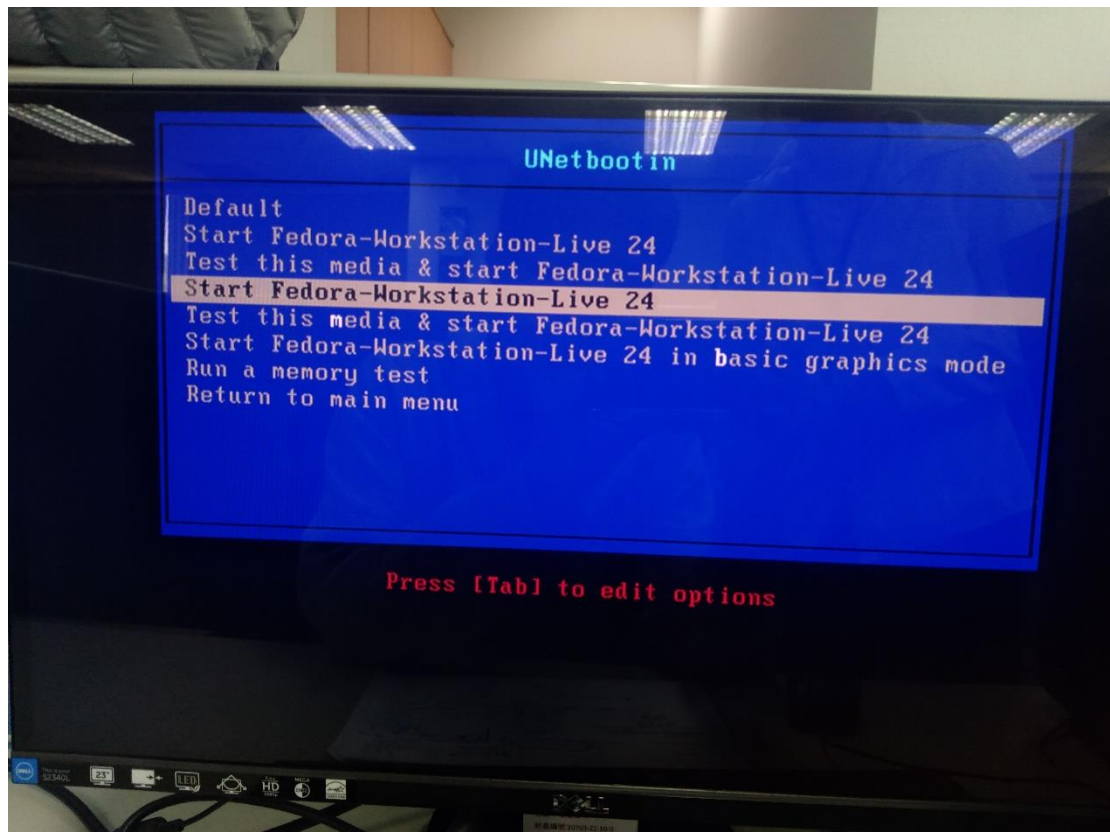
[1] Install Linux Fedora24

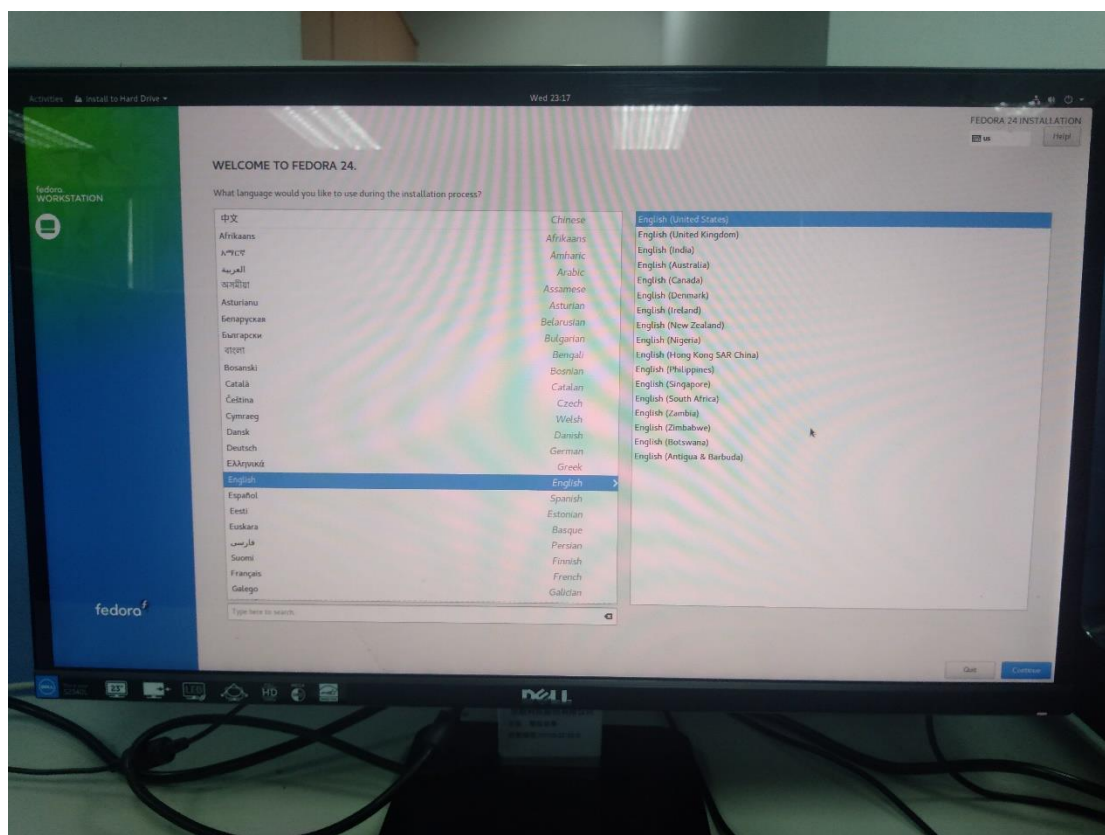
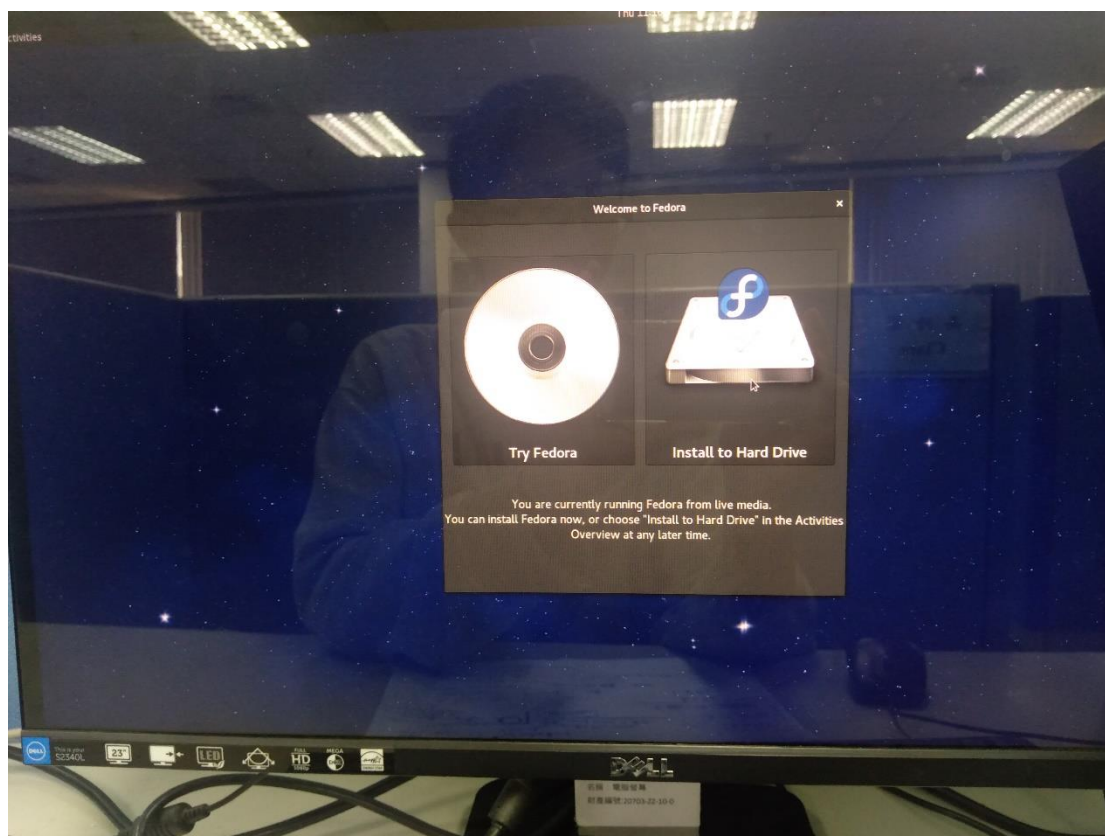
Please reference

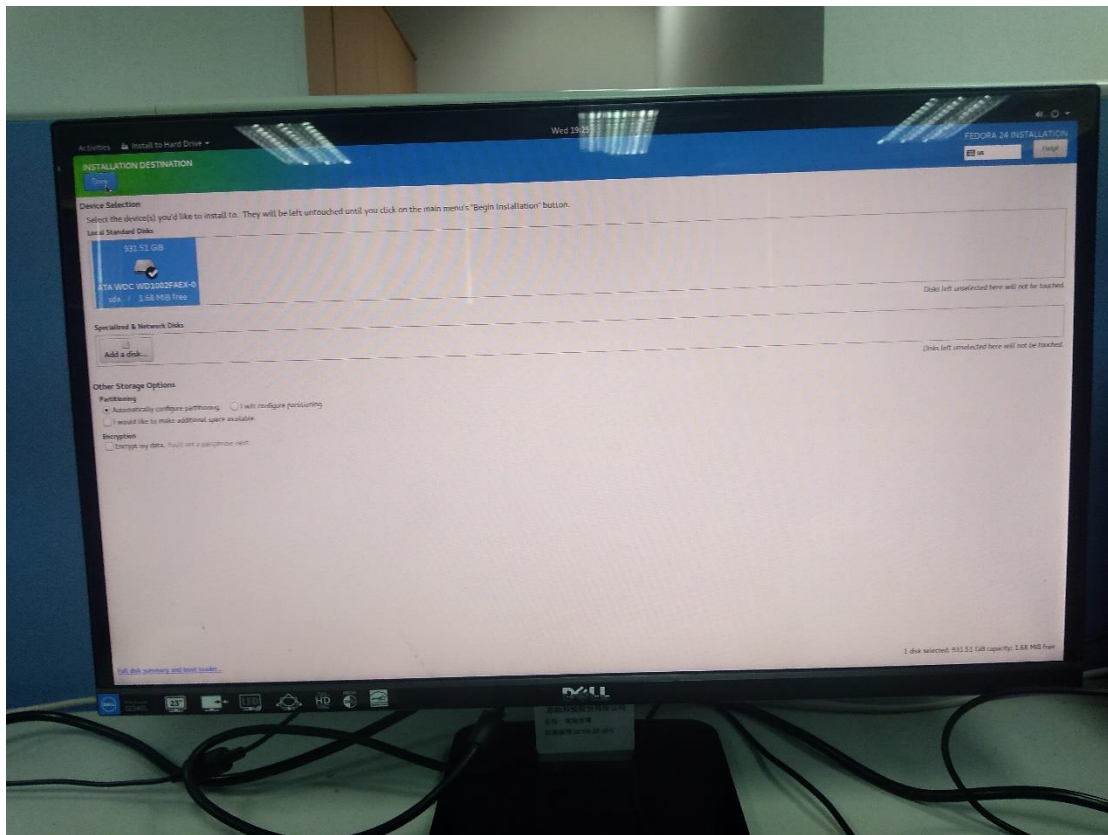
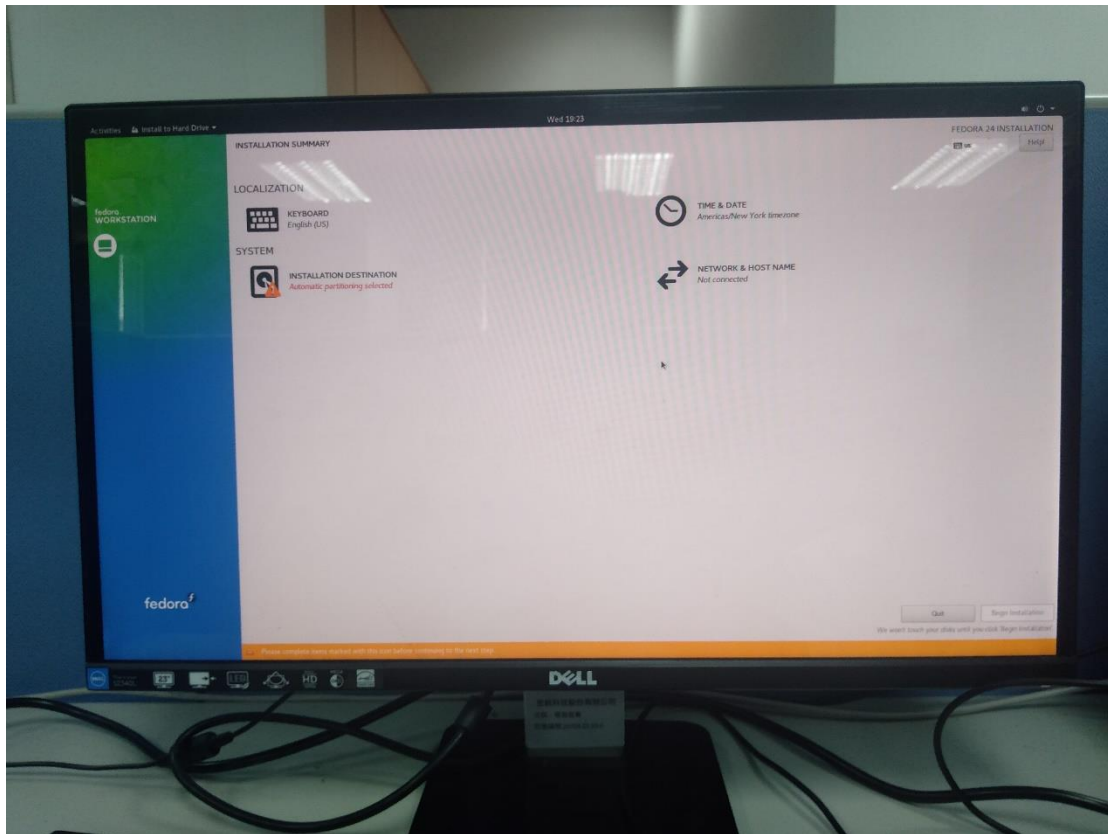
http://mirror.pnl.gov/fedora/linux/releases/24/Workstation/x86_64/iso/

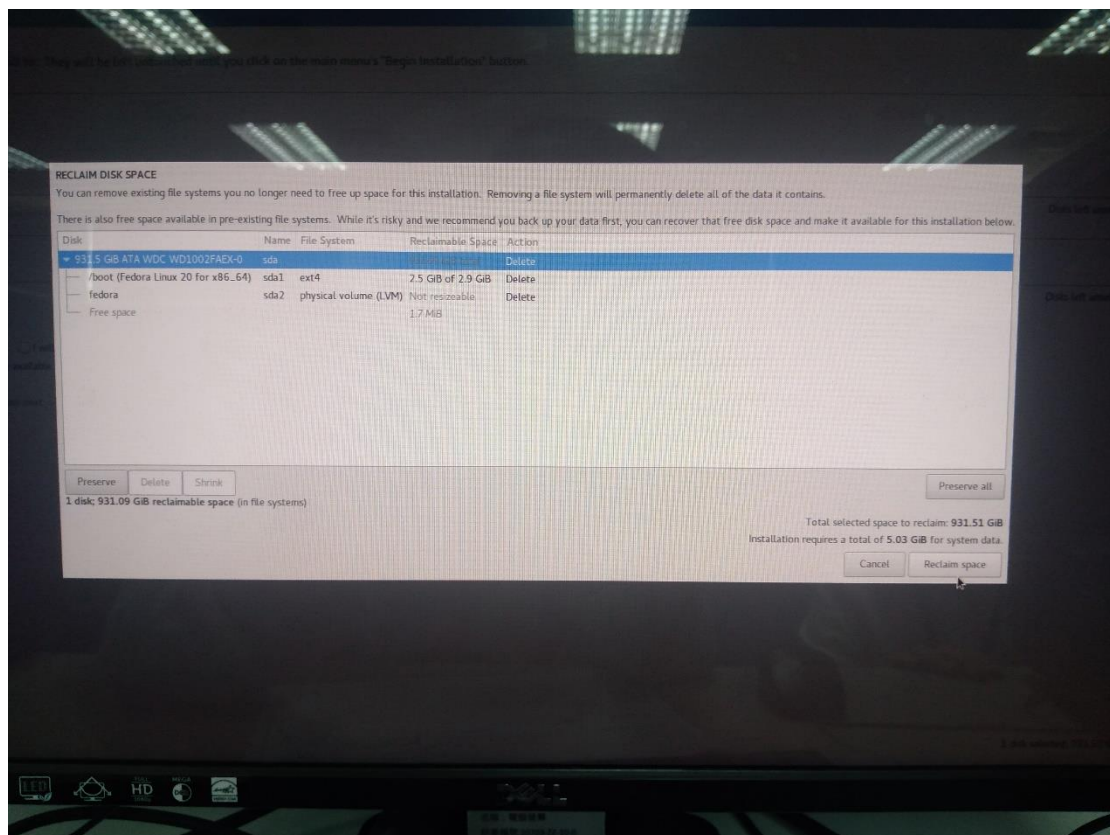
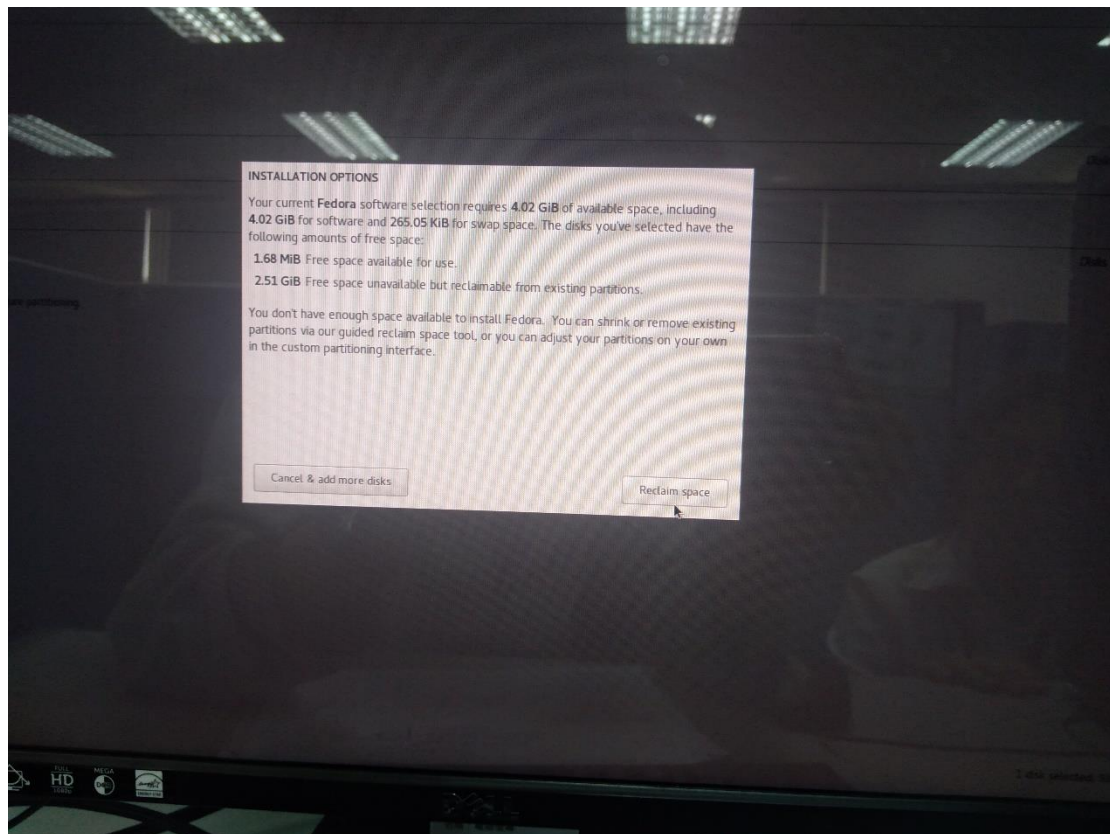
Using file Fedora-Workstation-Live-x86_64-24-1.2.iso

We recommend to use toolkit file unetbootin-windows-657.exe that copy Linux Fedora24 ISO file to pen drive such as Live USB. The to boot and install from USB disk.



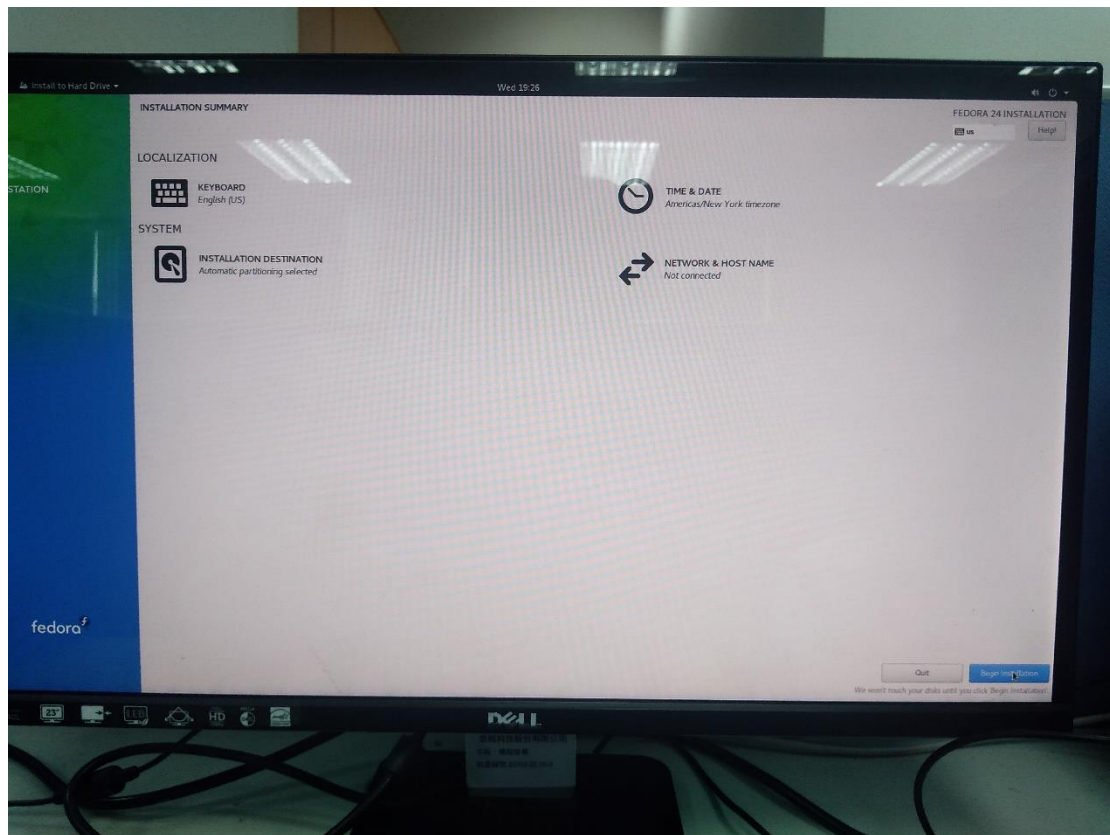


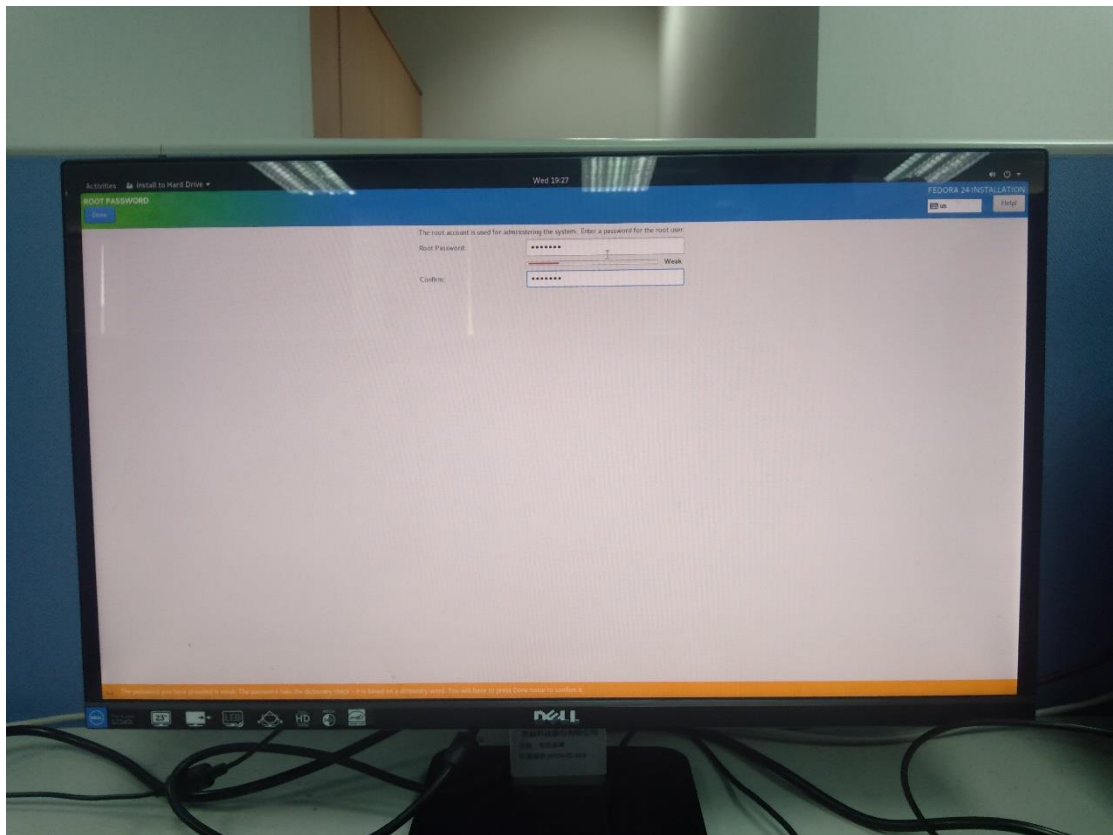
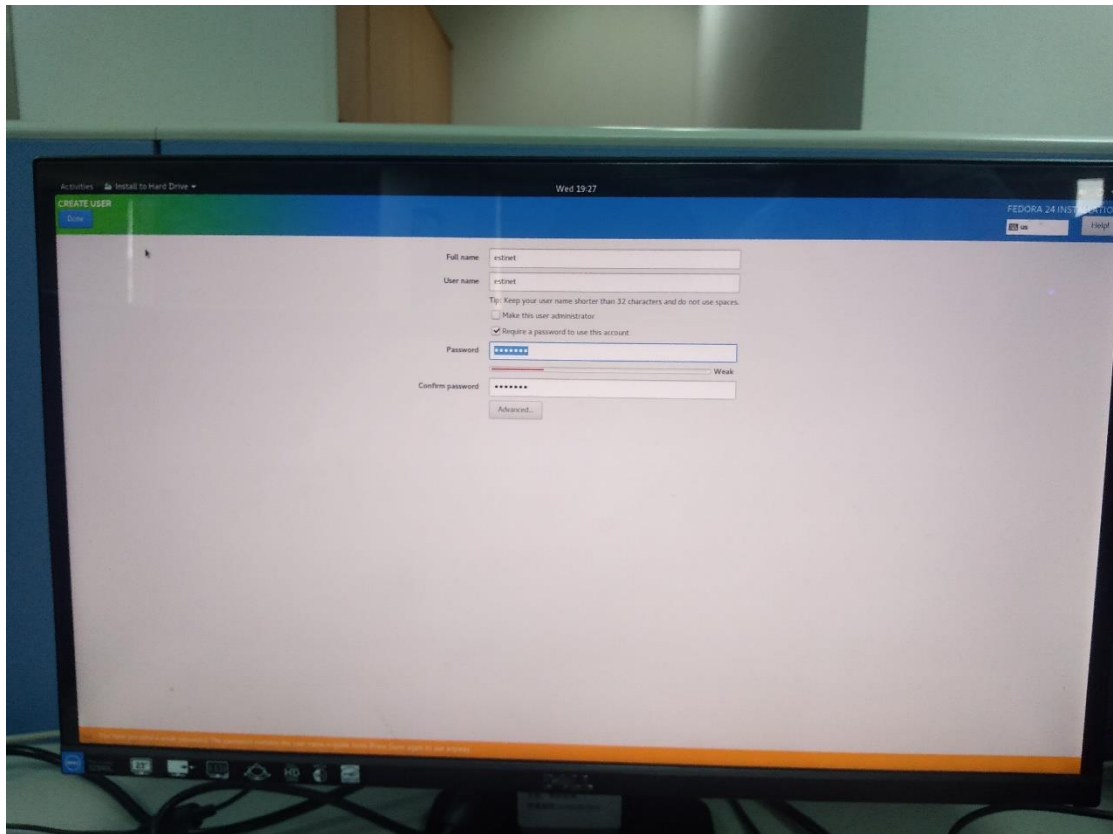


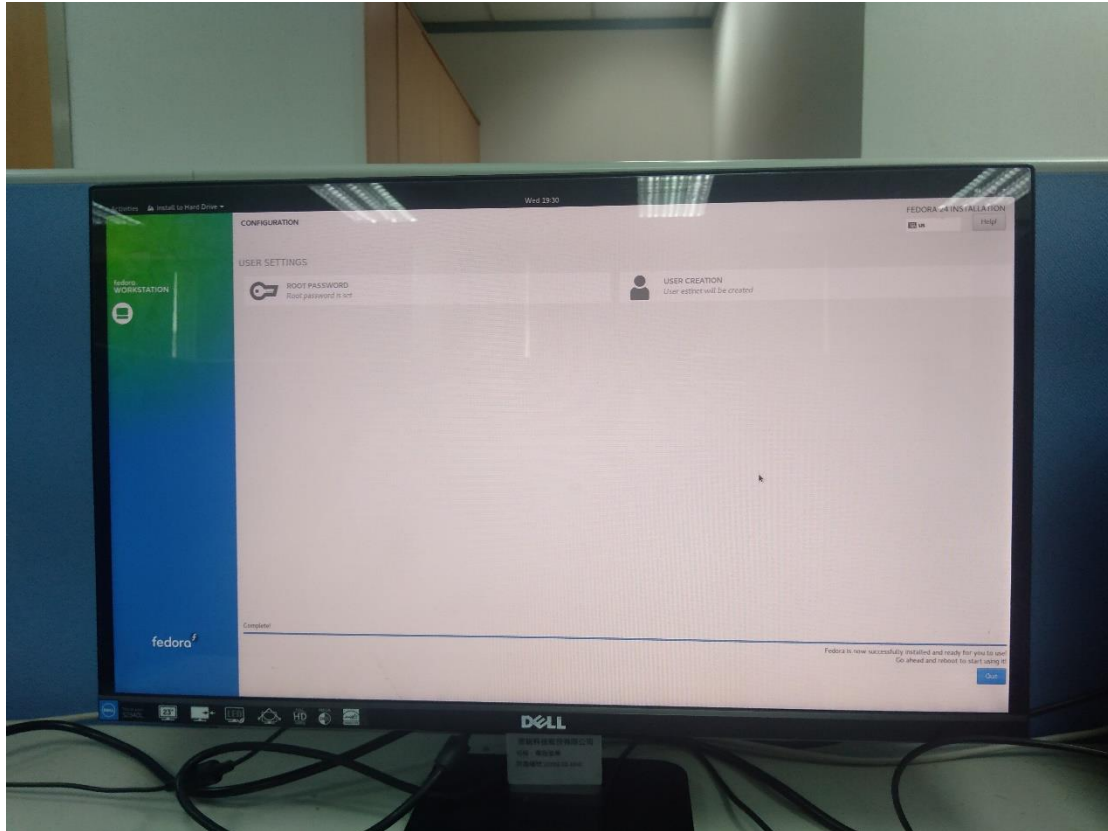


Please set default root as **estinet**

Password as **estinet**







[2] After users completed the Fedora24 installation, please install the necessary toolkit for EstiNet simulator. Please open a “**Terminal**” from Fedora24.

Please follow below command to install toolkit.

```
#su -
```

```
estinet
```

```
#yum update
```

Install gcc and g++

```
#yum -y install gcc gcc-c++
```

Install gnuplot

```
#yum -y install gnuplot
```

Install network library

```
#yum -y install libpcap-devel libpcap*
```

Install patch

```
#yum -y install patch
```


Install java

```
#yum -y install java
```

Install python

```
#yum -y install python python-crypto python-devel python-pip python-eventlet  
python-requests python-webob python-paramiko oslo.config  
#pip install --upgrade pip  
#pip install oslo.config --upgrade
```

Install xterm

```
#yum -y install xterm
```

Install wireshark

```
#yum -y install wireshark wireshark-devel wireshark-gnome  
#yum -y install scons git glib glib2 glib2-devel glib2-devel.i686 autoconf  
automake libtool
```

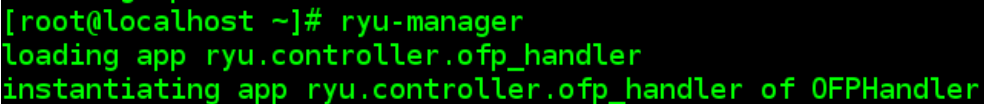
[Install Ryu]

- **Install Ryu controller in Fedora 20 64-bit operating system.**

Please follow below commands to install Ryu controller by root privilege under Linux terminal.

1. `pip install --upgrade pip`
2. `pip install ryu`
3. `pip install six --upgrade`
4. `pip install oslo.config --upgrade`

To make sure the correct installation of Ryu controller, user can set the command **ryu-manager** in Linux terminal then check the message as below figure of screenshot. Please remember to close (Ctrl + C) Ryu controller after this test.



```
[root@localhost ~]# ryu-manager  
loading app ryu.controller.ofp_handler  
instantiating app ryu.controller.ofp_handler of OFPHandler
```



```
#yum -y install openssl-devel
```

```
#yum -y groupinstall "Development Tools"
```

[3] Install EstiNet package

(1) Please download the EstiNet X installation package and decompress this package.

```
#tar xvf estinet-11.0.6.xx.b4f87ac-1.fc24.x86_64.release.tar.bz2
```

(2) Then go into the directory of estinet-11.0.6.xx.b4f87ac-1.fc24.x86_64.release

```
#cd estinet-11.0.6.xx.b4f87ac-1.fc24.x86_64.release
```

To execute install.sh

```
#./install.sh
```

Decompressed EstiNet X module source code

```
#tar xvf estinetse_all-11.0.6.xx.b4f87ac.fc24.x86_64.tar.bz2
```

Install NOX controller

```
#tar xvf nox-1.3.tar.bz2
```

```
#cd nox-1.3
```

```
#./install.sh
```

EstiNet sample files

Decompressed EstiNet_topology.tar.bz2 (From:

<https://drive.google.com/drive/folders/0Bx3dD-lqTv0IYIhrRFMzR2RZUU0>)

```
#tar xvf EstiNet_topology.tar.bz2
```


```
#mv EstiNet_topology /home/estinet
```

After complete above steps, reboot the machine, restart the Fedora24

```
#reboot
```

After reboot the machine,
Input EstiNet License Key
`#estinet_inputkey`
`xxxxxxxx-xxxxxxxx-xxxxx`

`#estinet_reserve`

From window “Type to search”, input “Esti” to search Esti . Click the right button to “Add to favorite”

Then click icon  to start EstiNet simulator.