

QEEE Institute server installation manual



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PREFACE

Give a brief on the purpose of document and a brief overview of each the chapters in this document

Introduction	This chapter describes us about what the document is aimed at.
Scope	This chapter covers the configuration details of the document.
Pre-requisites	Describes about the software and hardware pre-requisites.
CentOS and application installation	This chapter tell how the Cent OS and application can be installed.
Application installation	This chapter covers the application installation in detail.
Interface Configuration	This chapter describes us about the Interface Configuration.
IP Configuration for application	This chapter covers the IP Configuration for Application.
QEEE Home Screen	This Chapter covers final QEEE page home Screen.
Video for QEEE Server installation	Youtube video for QEEE College Server installation.

Audience

The intended audience are the System Administrator at the local college end.

List of Abbreviations

Sl. No	Abbreviation	Meaning
1	DVD	Digital Versatile Disc
2	FAT	File Allocation Table
3	HDD	Hard Disk Drive
4	QEEE	Quality Enhancement in Engineering Education
5	UPS	Uninterruptible Power Supply
6	USB	Universal Serial Bus

1. Introduction

This document provides the steps to be carried to install the institute server in colleges which are participating in the QEEE program.

2. Scope

This document includes the installation of institute server. For configuration of the institute server please refer the QEEE user manual.

3. Pre-requisites

3.1 Hardware Pre-requisites

Sl. No	Item	Remarks
1	Institute server	As per specifications for QEEE program (As specified here)
2	DVD –2 Nos.	For Centos 6.5
3	Pen drive –1 No.	With 1GB free space as FAT Partition
4	UPS	With minimum 4 hours power backup time
5	Cooling	As per server requirements

Table 1 Hardware pre-requisites table

3.2 Software Pre-requisites

Sl. No	Item	Remarks
1	Centos	Version 6.5 whose link is here
2	Institute server application and Linux installation kick start file	Download it from here as per your hard disk size. If your HDD size is not supported, download the closest HDD that is supported and edit it to suit your HDD size.
3	Installation Manual	This document
4	User Manual	Version 6.5 whose link is here

Table 2 Software Pre-requisites table

4. CentOS and application installation

- a) Create a DVD from the downloaded ISO image
- b) Copy the downloaded application on to a pen drive.
IMPORTANT: The downloaded Zip file must be extracted in LINUX machine only.
- c) Insert the USB drive and place the Centos 6.5 disk in DVD drive and reboot the server by pressing Ctrl-Alt-Del.
- d) The server will boot from DVD and Welcome screen will appear as shown in Figure 1 (Welcome to centos 6.5). Press Esc key.

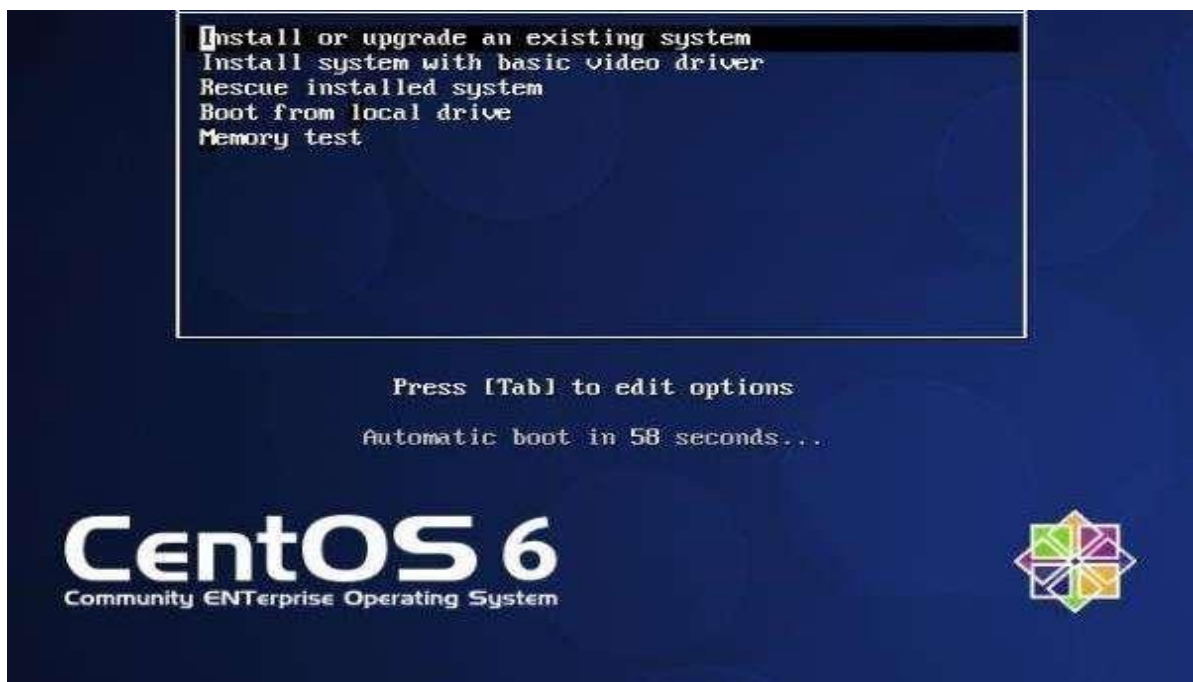


Figure 1 welcome Screen

- e) The boot: prompt will appear as shown in Figure 2, enter the following command in boot prompt and press enter.

```
boot: linux ks=hd:sda1:/ks2TB.cfg
```

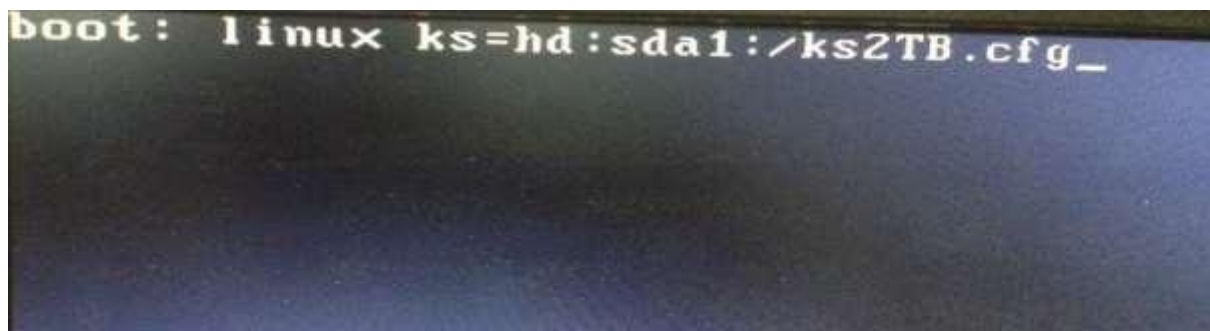


Figure 2 (a) Link to boot

Note: please use ks1TB.cfg in the above command if you have 1TB hard drive, Example: for 1TB Hard drive the command will be “**boot: linux ks=hd:sda1:/ks1TB.cfg**”

f) Installation Process will be started and continue as indicated in the figures below:
(Creating Partition)

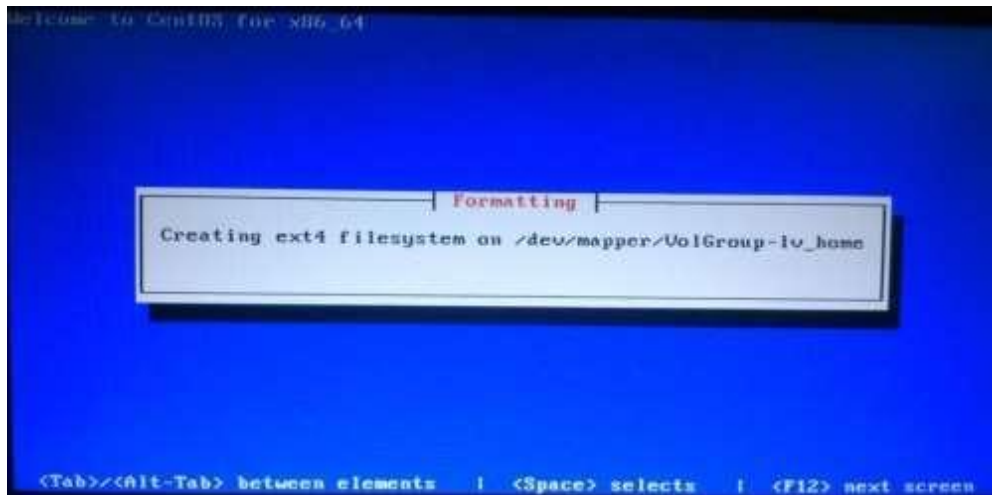


Figure 2 Formatting Linux Filesystem

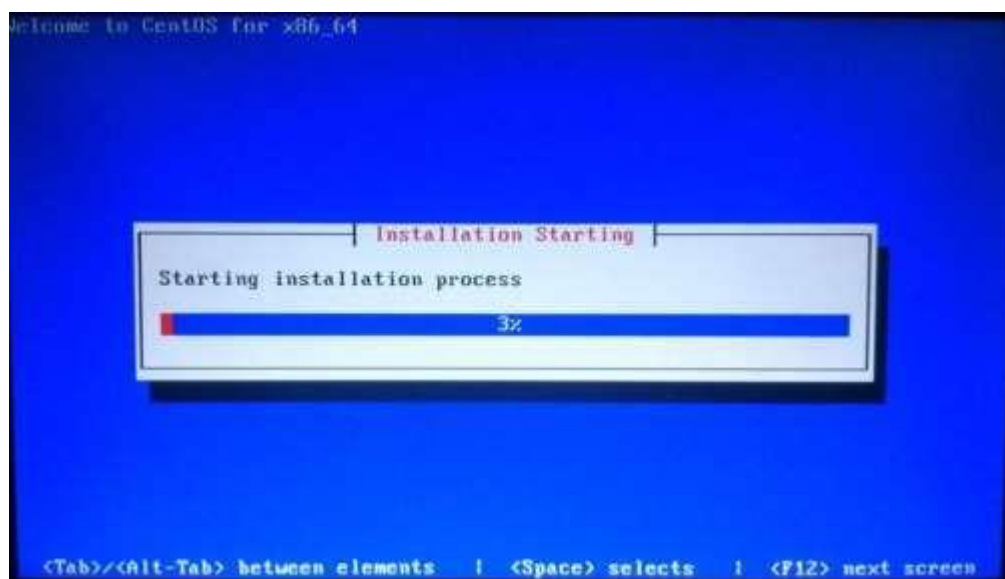


Figure 3 Installation Process starting

g) The packages selected in the ks.cfg file will be installed as shown in the Figure 5.

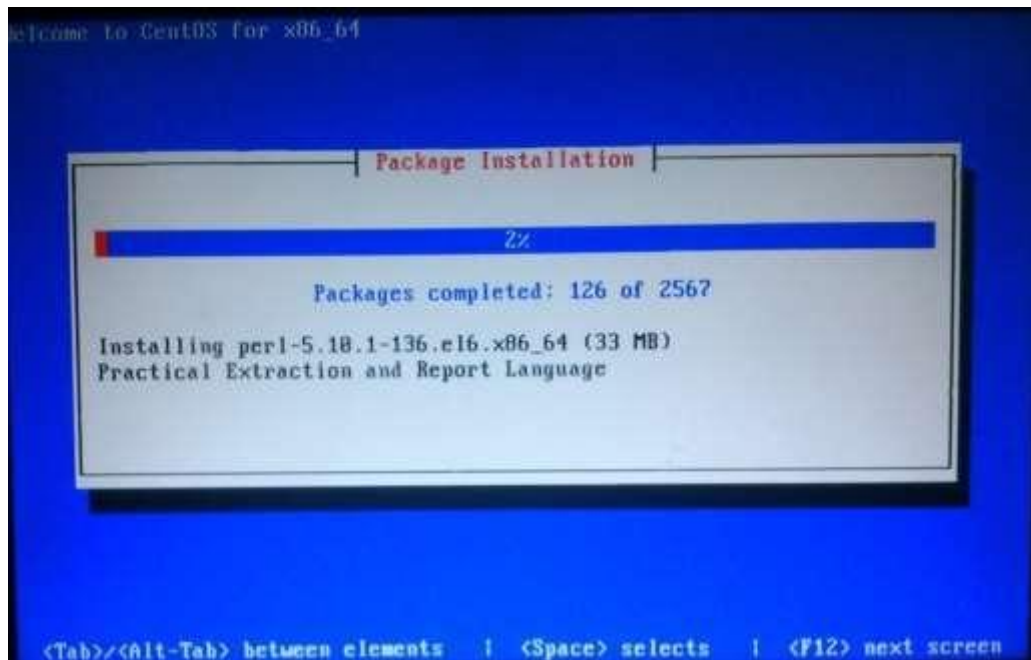


Figure 4 Installing Packages

5. Application Installation

Running post-installation scripts will install all the qeee applications as shown in the Figure 6.



Figure 5 Post installation scripts starting

- a) Wait until system gets reboot to complete the installation.
- b) The System will restart and Installation will get completed.
- c) Now the server will Load the **CENT OS 6.5** as shown in the Figure 7.



Figure 6 System loading

- d) After loading into Centos 6.5 the login screen will appear as shown in the Figure 7.

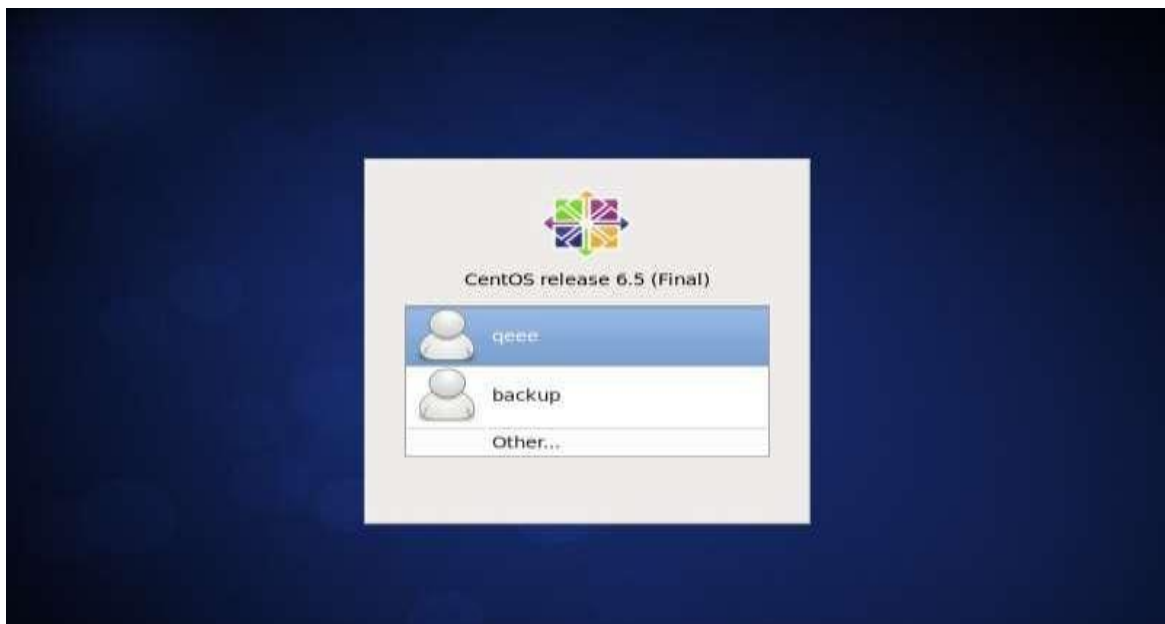


Figure 7 Login Screen

- e) Two logins will be created namely “backup” and “qeee” The default password for both accounts and the root account is “qeee” (without double quotes) Login as qeee to continue with the network interface configuration.
- f) After you installed the OS to connect the system with the internet automatically, do the following procedures as shown in the Figure 7 (a).

System -> Preferences -> Network Connections -> Select and Edit eth0 -> Enable Connect automatically

Note: The interface may differ as per number of **Ethernet adapters** available in your machines like **eth0** and **eth1**. So you have to edit and enable the corresponding ports to this configuration.

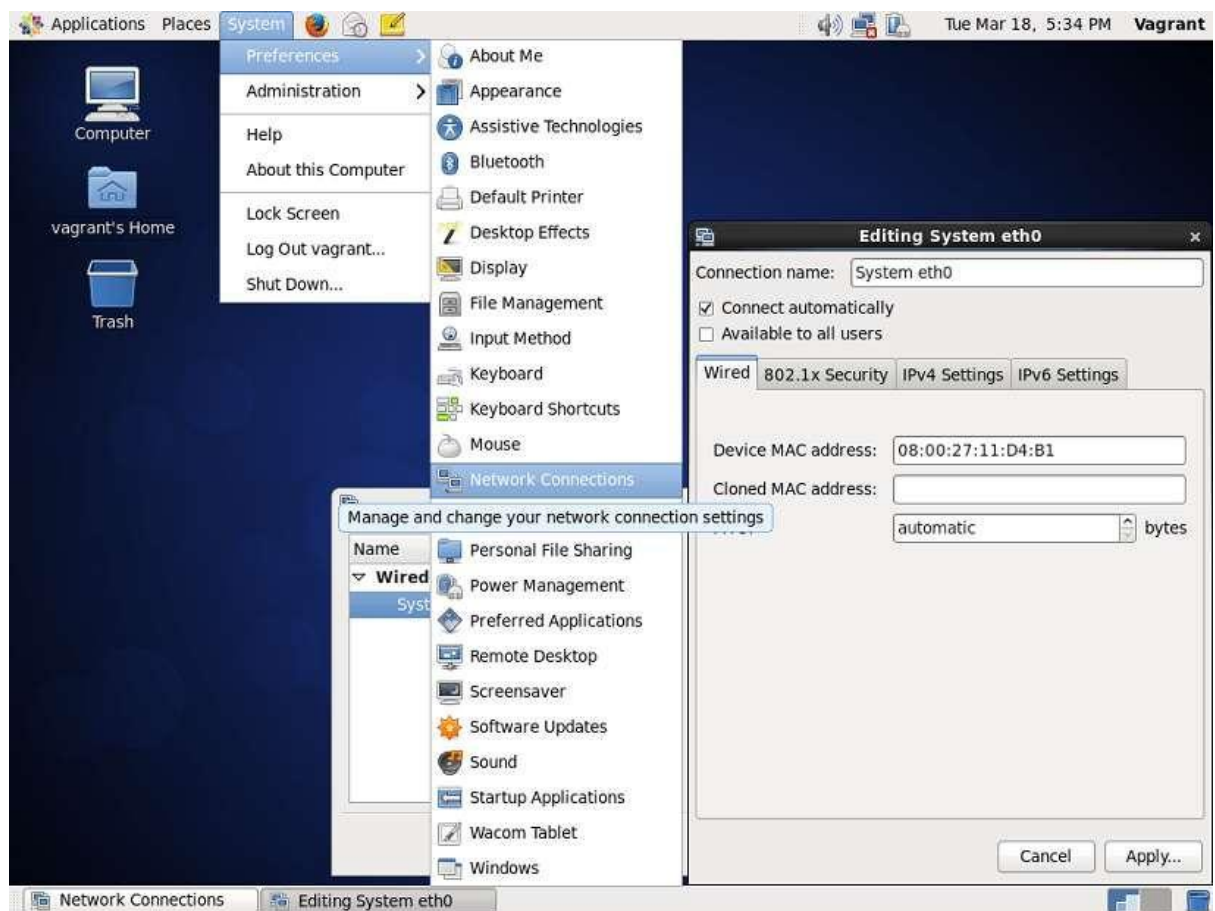


Figure 7 (a) Wired network connections

6. Interface Configuration

- a) Open -> Applications -> System -> Terminal
- b) Enter the following command to login as root

```
[qeee@localhost]# su  
Password: qeee
```

- c) Login as root and type setup in the terminal as shown in the below Figure 8.

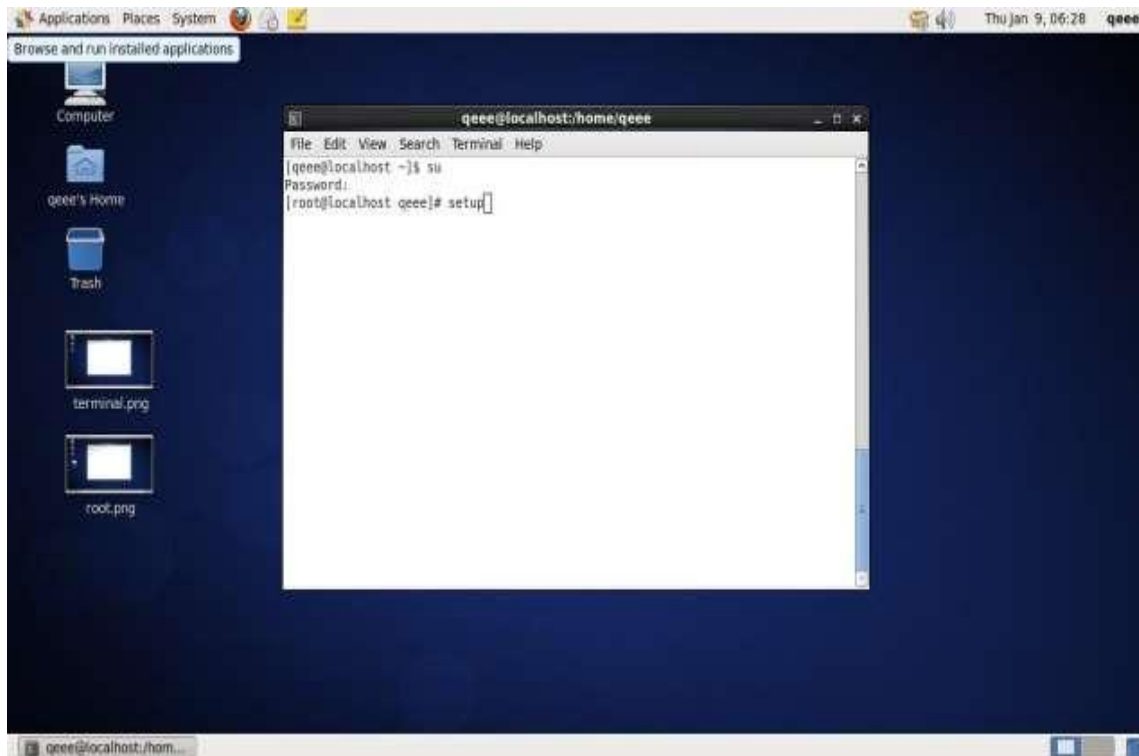


Figure 8 Terminal Window

- d) Text mode utility setup will be opened as shown in the Figure 9.



Figure 9 setup screen

e) Next select the Network Configuration Tool as shown in the Figure 10 and press Enter.



Figure 10 Configure network

f) Select Action → Device Configuration the Figure11. →



Figure 11 Network configuration

- g) In the device configuration, select your device and press enter as shown in the Figure 12.

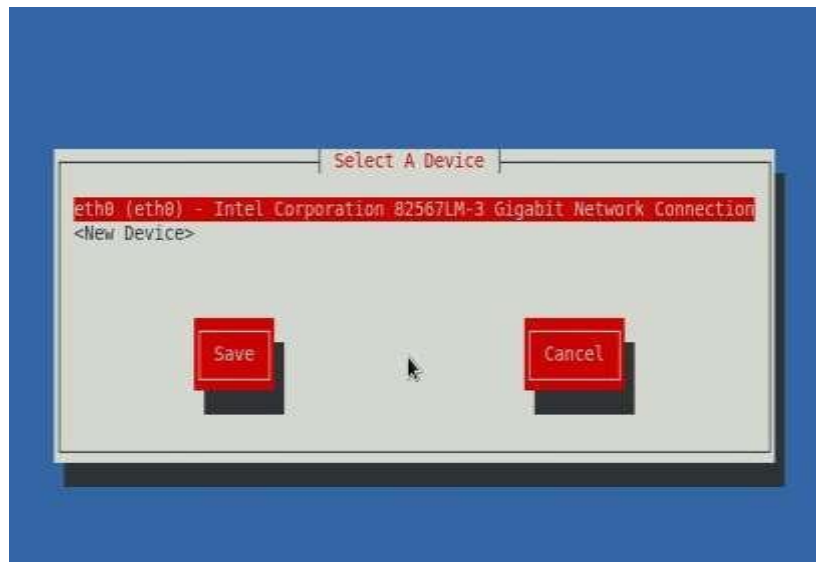


Figure 12 Network configuration

- h) Choose your Network Configuration and press OK button as shown in the Figure 13.

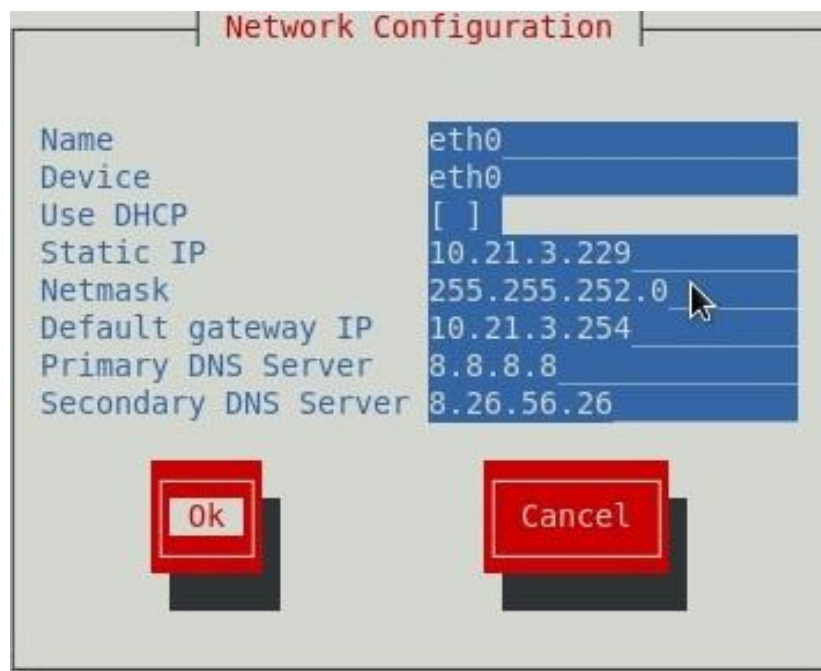


Figure 13 Network Configuration

NOTE: - If you don't have any own DNS in your college use **8.8.8.8** and **8.26.56.26** as DNS Addresses.

- i) Now select the Save & Quit and press Enter as shown in the Figure 14.



Figure 14 Network configuration

- j) Select Quit and Press Enter as shown in the Figure 15.



Figure 15 Network configuration

7. IP Configuration for Application

- Login as root user in the terminal
- Enter the following commands and press enter to configure the QEEE application as shown in the figure 16 & 17.

```
[root@localhost ~]# /usr/local/bin/start_qeee.sh
[root@localhost ~]# /usr/local/bin/qeeconfig.sh
```

```
qeee@localhost:/home/qeee/Desktop
File Edit View Search Terminal Help
[root@10 Desktop]#
[root@10 Desktop]#
[root@10 Desktop]# /usr/local/bin/start_qeee.sh
mkdir: cannot create directory `/root/serverlogs': File exists
mkdir: cannot create directory `/root/serverlogs/node_video_log': File exists
mkdir: cannot create directory `/root/serverlogs/node_video_log': File exists
mkdir: cannot create directory `/root/serverlogs/turn_sever_log': File exists
Starting httpd:
Starting mysqld: [ OK ]
nohup: appending output to `nohup.out'
Starting red5: [ OK ]
QEEE Server Started...
[root@10 Desktop]#
[root@10 Desktop]#
[root@10 Desktop]# █
```

Figure 16 configure web service

```
qeee@localhost:/home/qeee/Desktop
File Edit View Search Terminal Help
[root@10 Desktop]#
[root@10 Desktop]#
[root@10 Desktop]# /usr/local/bin/qeeconfig.sh
Enter your system IP or Domain Name to access the site in browser:10.21.3.229
Tue Nov 22 15:55:07 IST 2016 You have entered: 10.21.3.229
nohup: ignoring input and appending output to `nohup.out'
Tue Nov 22 15:55:20 IST 2016 *****Configuration completed*****
*****
Tue Nov 22 15:55:20 IST 2016 You have entered: 10.21.3.229
The Hostname already set for this ip 10.21.3.229 10.21.3.229
Are you Sure you want overwrite this (y/n):y
Shutting down sm-client: [ OK ]
Shutting down sendmail: [ OK ]
Starting sendmail: [ OK ]
Starting sm-client: [ OK ]
Tue Nov 22 15:55:28 IST 2016 Creating JNLP File
[root@10 Desktop]#
[root@10 Desktop]#
[root@10 Desktop]# █
```

Figure 17 configure server url

8. QEEE home screen

a) Type your public ip address or domain name with trailing /qeee (eg:10.21.3.229/qeee) in the browser in the Figure 17 (a).

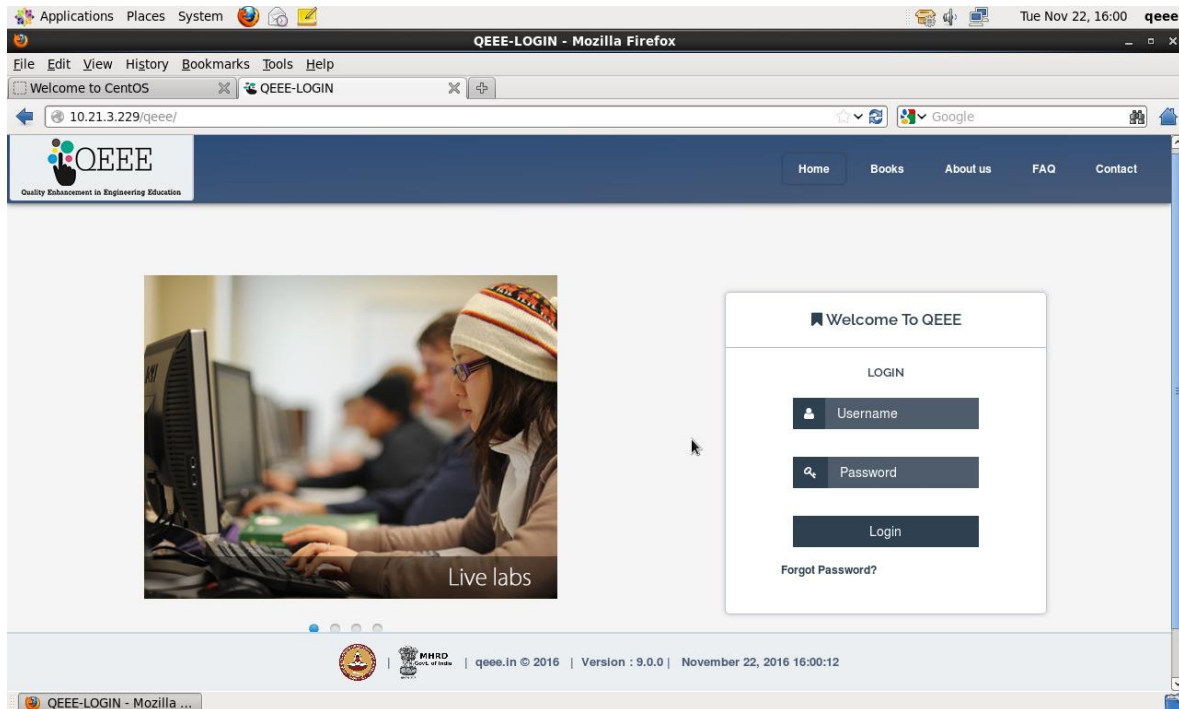


Figure 17 (a) QEEE Screen

b) Finally, **QEEE home screen** will appear as above shown in fig.

9. Appendix

None

10. Youtube Link for College server Installation

[Click here:](#)