QEEE Institute server installation manual
## HISTORY

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Authors</th>
<th>Description of Changes</th>
</tr>
</thead>
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<tr>
<td>002</td>
<td>19-07-2014</td>
<td>John Kest</td>
<td>Second version of Release</td>
</tr>
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<td>003</td>
<td>21-11-2014</td>
<td>Ebin, Ilavarasan</td>
<td>Third version of Release</td>
</tr>
<tr>
<td>004</td>
<td>17-12-2015</td>
<td>Ebin, Ilavarasan</td>
<td>Fourth version of Release</td>
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<td>Ashok, Hari</td>
<td>Fifth version of Release</td>
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**PREFACE**

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

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<tr>
<th>Chapter</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Introduction</strong></td>
<td>This chapter describes us about what the document is aimed at.</td>
</tr>
<tr>
<td><strong>Scope</strong></td>
<td>This chapter covers the configuration details of the document.</td>
</tr>
<tr>
<td><strong>Pre-requisites</strong></td>
<td>Describes about the software and hardware pre-requisites.</td>
</tr>
<tr>
<td><strong>CentOS and application installation</strong></td>
<td>This chapter tell how the Cent OS and application can be installed.</td>
</tr>
<tr>
<td><strong>Application installation</strong></td>
<td>This chapter covers the application installation in detail.</td>
</tr>
<tr>
<td><strong>Interface Configuration</strong></td>
<td>This chapter describes us about the Interface Configuration.</td>
</tr>
<tr>
<td><strong>IP Configuration for application</strong></td>
<td>This chapter covers the IP Configuration for Application.</td>
</tr>
<tr>
<td><strong>QEEE Home Screen</strong></td>
<td>This Chapter covers final QEEE page home Screen.</td>
</tr>
<tr>
<td><strong>Video for QEEE Server installation</strong></td>
<td>Youtube video for QEEE College Server installation.</td>
</tr>
</tbody>
</table>
Audience
The intended audience are the System Administrator at the local college end.
List of Abbreviations

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

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

Table 1 Hardware pre-requisites table

3.2 Software Pre-requisites

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Item</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Centos</td>
<td>Version 6.5 whose link is here</td>
</tr>
<tr>
<td>2</td>
<td>Institute server application and Linux installation kick start file</td>
<td>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.</td>
</tr>
<tr>
<td>3</td>
<td>Installation Manual</td>
<td>This document</td>
</tr>
<tr>
<td>4</td>
<td>User Manual</td>
<td>Version 6.5 whose link is here</td>
</tr>
</tbody>
</table>

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](image)

![Figure 2 (a) Link to boot](image)

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](image1)

![Figure 3 Installation Process starting](image2)
g) The packages selected in the ks.cfg file will be installed as shown in the Figure 5.

5. Application Installation

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

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

Figure 8 Terminal Window

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

![Figure 9 setup screen](image)
e) Next select the Network Configuration Tool as shown in the Figure 10 and press Enter.

![Choose a Tool](image)

*Figure 10 Configure network*

f) Select Action → Device Configuration the Figure11. →

![Select Action](image)

*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](image)

**Figure 12 Network configuration**

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

![Figure 13 Network Configuration](image)

**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](image1)

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

![Figure 15 Network configuration](image2)
7. IP Configuration for Application

a) Login as root user in the terminal

b) 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/qeeeconfig.sh
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](image)

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

9. Appendix
None

10. Youtube Link for College server Installation

[Click here:](link)