

Lab Preparation Requirements

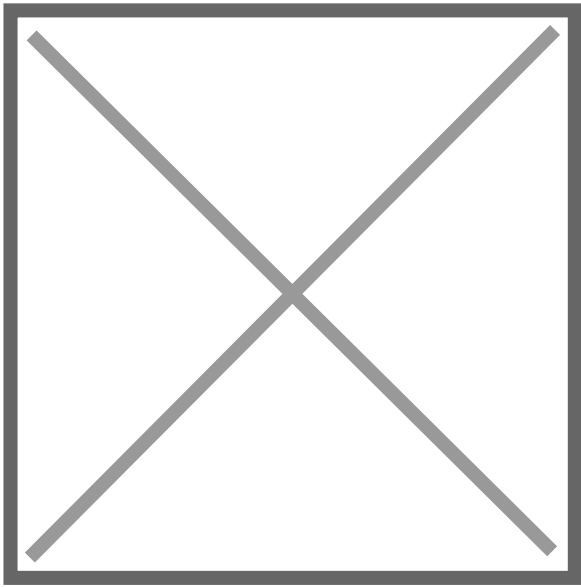


Figure: Lab Preparation Requirements

To prepare the lab, firstly the lab requirements need to be understood and make it available to start the process and have the setup in place.

A.

Hardware Required

1.

LAN Switch (with port equal to or more than the computers in the lab)

2.

Cat6 LAN cable

3.

RJ45 connector

4.
Headphones (2 per computer)
5.
Splitters (1 per computer)
6.
Recommended specification for server machine for up to 15 client machines for smoother experience:
 - i5 Processor
 - 8GB RAM
 - 1TB Hard Disk
 - Latest stable Ubuntu OS (Eg: Ubuntu 18.04)
7.
Minimal recommended specification for client machines:
 - i3 Processor
 - 4GB RAM
 - 500GB Hard Disk
 - OS as per the availability at the computer lab
8.
UPS: To avoid problems that may occur due to unexpected electricity power interruptions (at least for server machine)

Extra Hardware Requirements specific to teacher professional development (TPD)

Workshops (along with the above-listed ones):

1.
Power backup in case of power cuts
2.
Projector
3.
Wireless Mic
4.
Internet Connection

Software Required

1. CLIx Installer disk (External Hard Disk)
2. Ubuntu installer disk (8GB Pen Drive), Ubuntu latest stable ISO image can be found here:
<https://ubuntu.com/download/desktop>
3. Windows multipoint server 2011 installer CD (In case of zero clients)
4. Windows 8 installer (For Stand-alone computer) OR Windows 7 installer (In case of N-computing)

Tools Required

1.
Crimping Tool
2.
LAN Tester
3.
Screwdriver

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