<u>Ray Display Systems Pvt Limited (Hakims) - Case Study</u>

<u>Keywords :</u>   Ubuntu Desktop , Ubuntu Server , Desktop Virtualization , Xubuntu Desktop

<u>Company Background :</u>

Ray display systems is company that manufactures a wide range of Writing Boards: magnetic-cum-writing boards, ordinary marker boards (white) and chalk boards(green, black or blue).

<u>Domain :</u> Engineering and Manufacturing

<u>Problem Statement :</u>

To Migrate to Linux based Desktop environment in order to make the desktop usage secure from viruses and data protection.

<u>Environment and Setup :</u>

The company has 15 Desktop computers and 2 Servers for their operations. They run on a 3rd Party hosted Mail server. They get affected by virus very often and a lot of software gets corrupted every now and then.

The setup consists of ,

Hardware :

15 Desktops ,
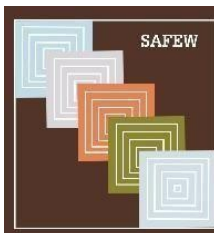Processors - Mixture of AMD Sempron and Intel Celeron Pcs
Motherboards – ASUS
RAM – 512, 1 GB

2 Servers ,
Processors - AMD Athlon xp and Intel Dual Core processor

Motherboards – ASUS
RAM – 2 GB

DotMatrix Printers , Canon , TVS

Software :
VisualTrio XP
Outlook Mail Client
Tally 9

AutoCAD
CorelDraw

Internet Sharing is done through the Ubuntu Server, it runs 2 internet connections. Windows server is used as a file sharing server and Runs VisualTrio XP server.

Constraints :

Visual Trio XP was an essential requirement. The clients of visual Trio map to C Drive on the desktop system and mounts its drivers there. However, desipite the usage of wine, the setup of visual Trio xp server was not able to detect the C drive created by wine.
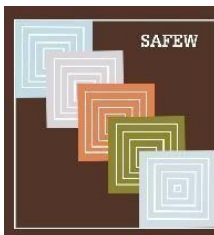
Solution Provided :

After understanding the specific needs of the users, a list of software was made. It was then mapped to the specific hardware requirements of the existing desktops, and need for upgrade was identified.

Some of the older systems with lower resources were installed with Xubuntu 10.04 Desktops, where as most of other machines were installed with Ubuntu 10.04 LTS Desktops. This took care of the basic system setup.

The next challenge was to migrate the existing pst format outlook emails to Linux based environment.

Synovel Spicebird was used as the mail client of choice. Since, spicebird was compatible with thunderbird formats out of the box, an import was first made into thunderbird and pst was converted to a thunderbird compatible format.

S A F E W T E C H N O L O G Y L A B S

P E R F E C T   E L E M E N T S   P O W E R F U L   S O L U T I O N S

This file was then imported within the spicebird setup. We were able to successfully import all the calendering as well as mail related data form the outlook.

Draftsight a free alternative to 2D and 3D modelling in autocad was installed and provided to systems that required AutoCAD related software.

On specific Systems CorelDraw was replaced with SK1 Project , Inkscape and Gimp were provided.

The systems were added to the specific workgroup and samba share was configured in order to access the quota assigned to each user on the windows 2008 file server.

Once the systems were ready with the basic setup, visual Trio xp was left. Visual Trio XP is an inventory management and purchase program required for the day to day operations of the company.

Visual Trio uses a hardware dongle connected to the server for licensing purposes. The client needs to have C: Drive needs to be mapped to the server so that the drivers are picked up automatically for running visual trio.
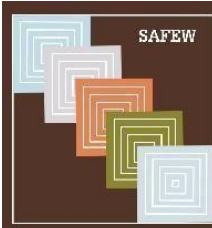
VirtualBox was used for desktop virtualization, and Windows XP SP3 was installed in the virtualbox. VisualTrio client was installed in the windows desktop. VirtualBox utils were installed and NAT was enabled . Printers were shared with the host OS using the Network Sharing of Printers on windows.

Internet was disconnected on the VirtualBox in order to prevent direct access to the viruses.

Ubuntu Server were used to configure New users in the network.

An end user training on usage of OpenOffice, Spicebird , Ubuntu and Xubuntu Desktop was provided to all the users.

Conclusion :

A combination of Ubuntu , Xubuntu desktops and Desktop Virtualzation is being used for day to day operations of Ray Display Systems Private Limted.