A GUIDE TO K12LTSP

Proposed outline of chapters

1.Introduction to Free sofware, GNU, Linux

2.Client Server computing as a computing model (since mainframe days)

3.Personal Computers or Desktop computers Individual ownership wastage of resources

4.Thin Client computing back to the original model (optimum utilization and sharing of resources)

5.LTSP

6.K12LTSP

7.Cost Comparison of LTSP lab to PC based lab

8.Advantages of thin Clients or Diskless Workstations computing compared to proprietory or standalone Linux systems.

9.Disadvantages and how to overcome or reduce them.

10.Hardware requirements Server , Clients and networking various configurations 1 computer,2 computers, 4 computers , 8 computers,16 computers,24 computers etc.

11.Preinstall cheklist, migrate or move data from Legacy or proprietory systems (Eg.book marks,.doc,ppt etc,user accounts migration .

12.Installation and Configuration

13.Upgradation, install extra sofware,restrict access to programs,customize menus

14.Login , autologin, logout,various login methods managing users accounts, controlling access,login, etc, icewm,gnome,kde text logins

15.automating scripts , simplify commands

16.Case studies from k12ltsp website and other places

17.Advocating k12ltsp a few pages as posters or pamphlets

18.Opinion,experiences,quotes of users like Children,teachers,admins on using k12ltsp

19.Sample desktops of children,teachers and admins

20.Problems and solutions like power system,virus,children creating nuisance ,crash (HDD) precautions and solutions etc.

Original Case studies at K12LTSP

Paul Nelson *Thu May 10 22:00:36 2001* **E-mail:** pnelson@riverdale.k12.or.us **School Name:** Riverdale Grade School
Location: Portland, OR - USA **School Info:** K-8, 350 students
Describe your K12-LTSP installation: Server: Dual Xeon 450/2mb cache from Intel/STRUT, 1.5gb ram, 18gig uw/scsi HS Terminals: 25 BookPC's from Amptron. Normal use is StarOffice, Mozilla and Gimp. /home is nfs mounted on server so users have access to files from Windows, Mac and Linux workstations.
Outline the costs of installation: Xeon cpu's free from STRUT, Case $75, Supermicro MB $500, HD $300, RAM $600 (then...) = $1,475 Terminals @ $156 + $35 for 128mb SDRAM w/free Celeron CPU from STRUT = $191 Total cost for 25 workstations and server was $6,250 (But I think we can still add another 10 terminals...)
Comment on migration to Linux based desktop applications: We offered very little training. I just showed students that they could save StarOffice files as .doc .rtf and .ppt files for use on Windows workstations. The kids picked up on it right away and enjoyed configuring their desktops and work environments.

Jeffrey Elkner *Fri May 11 06:47:35 2001* **E-mail:** jeff@elkner.net **School Name:** Yorktown High School
Location: Arlington, VA **School Info:** 9-12, 1500
Describe your K12-LTSP installation: Server: Dual Xeon 733Mhz with 1.5Gig RAM Terminals: 15 Amptron BookPCs
Outline the costs of installation: Server $3000 Terminals: $3450
Comment on migration to Linux based desktop applications: We were using stand alone Linux machines already, so the only adjustment for the students was getting used to having things load so much faster!

Proposed K12LTSP CASE STUDIES rearranged,colour coded,modified

May 10 2001	Riverdale Grade School	K-8, 350

Hardware

Server: Dual Xeon 450/2mb cache,1.5GB RAM , 18GB UW/SCSI

Clients: 25 BookPC's from Amptron.

Normal use is StarOffice, Mozilla and Gimp.

/home is nfs mounted on server so users have access to files from Windows, Mac and Linux workstations.

Cost

Xeon cpu's free from STRUT, Case $75, Supermicro MB $500, HD $300, RAM $600 = $1,475

Terminals @ $156 + $35 for 128mb SDRAM w/free Celeron CPU from STRUT = $191

Total cost $6,250

Migration

We offered very little training. I just showed students that they could save StarOffice files as .doc .rtf and .ppt files for use on Windows workstations.

The kids picked up on it right away and enjoyed configuring their desktops and work environments.

May 11 2001	Yorktown High School

Hardware

Server: Dual Xeon 733Mhz, 1.5GB RAM

Clients : 15 Amptron BookPCs

Cost

Server $3000 Terminals: $3450

Migration

We were using stand alone Linux machines already

So the only adjustment for the students was getting used to having things load so much faster! ;-)

Jul 14 2001 Southern High School Baltimore, Maryland
Hardware: Server: Toshiba 3010 ,dual PII processors, 512MB RAM Clients: Toshiba 7100 ,32 MB RAM, PIII processor, Intel EEpro100 NIC
Cost: No Cost other than the CDs...
Migration Basic installation was fine...the real challenge will be when the students return in the fall.

Aug 22 2001 Vermilion Parish Library Abbeville, La n/a
Hardware: **Server:** Dual 266 PII Clients: 400mhz AMD e- machine . Working at getting other machines around the library into a 100 base network so we can use them as test machines.
Cost: None.
Migration It will be great for a class setting where they can pop boot disks into their windows machines and have a Linux lab.

Aug 22 2001 Silver Valley High School Yermo, CA, USA 9-12, 520
Hardware: We run six application servers (all loaded now with K12-LTSP), One file server which exports /home to the six app servers, One file server which boots the 140 terminals across the campus. Typical usage is StarOffice for word processing/spreadsheets, Netscape Communicator for Internet access.
Cost: N/A