FOSS Infrastructure for your organization

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foss.in

Magnet

I build OpenOffice, do you?

Thanks to Karunakar for putting on this t-shirt. It made my first slide!
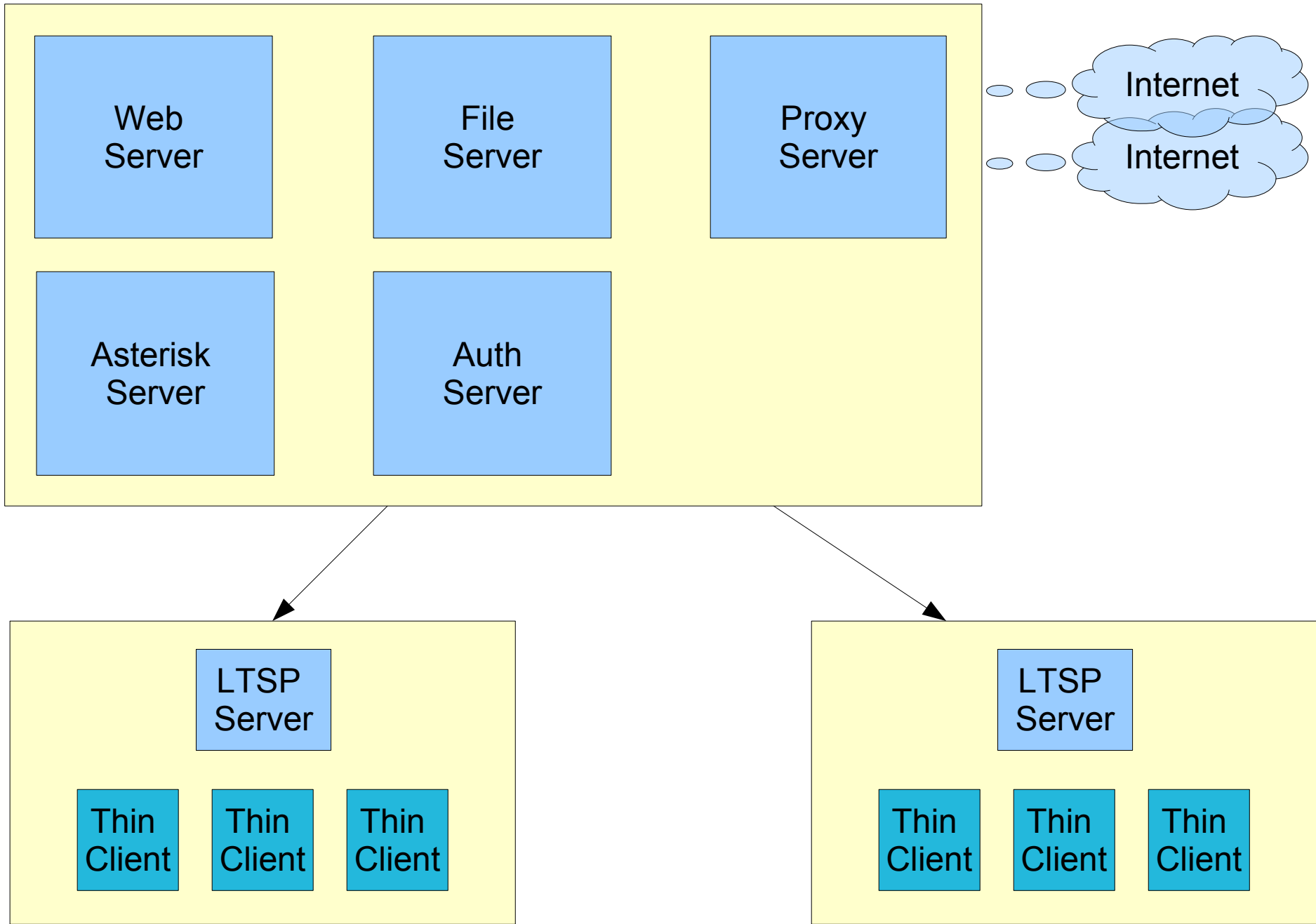
What is this about?

- How we setup tech infrastructure in our new office with FOSS tools

- The mistakes we made

- And the victories!

- So that you do better ;-)

What did we want?

- Stable, sturdy and scalable setup

- Cost effective – short and long term

- State of the art – case study in such needs

Web
Server

File
Server

Proxy
Server

Internet

Internet

Asterisk
Server

Auth
Server

LTSP
Server

Thin
Client

Thin
Client

Thin
Client

LTSP
Server

Thin
Client

Thin
Client

Thin
Client

Core Setup

- Thin Clients, LCDs
- Distributed Clustered Setup
- Why?

Centralized Authentication

- LDAP, MySQL
- pam_mysql
- Pgina

pam_mysql

- Configuration
- Access Control problem
- Too many connections
- Backup Provision
- The Mysteries of Failed Auth

Clustered Setup

- Server
- Thin Clients
- SVN
- Dev Tools – Apache, PHP

Internet Connection

- Load balanced connections
- Sharing for better bandwidth - LARTC
- Dirty Public IP
- This Orkut thing!

Email

- Webmail to Thunderbird
- Exim
  - delivery to non home folder
  - Smarthost
  - SpamAssasin / Clam integration
- Fetching emails

Telephony

- Asterisk
- ISDN PRI line
- DID, Access Control, Voicemail
- Central auth
- Sound on Ubuntu / RDP
- Fax support, Calling global

Storage

- Distributed Storage
- Scripted Backup
- SVN backup

Enterprise Systems

- Project Management – activeCollab, Mantis, Wiki

- HR systems

- Access Card system

- Security – firewall

- Messaging – Wildfire

- Music!

The Foreigners

- Windows – similarly setup
- Mac – independent, but same tools

Updates & Maintenance

- Local Repository

- Remote Maintenance

- Scripts to integrate

Wishlist

- Printer Quota management
- Higher integration
- Single shutdown and startup provision
- Sound on clients
- Fax on Asterisk

The Geek Who Told His Story

- FOSS can do it!

- Integrated is better

- Troubles will happen

- Keep your cup empty!

Thank You

gnu/linux   LTSP
Ubuntu   MySQL
Apache   PHP   Python
Shorewall Asterisk
pam_mysql   Squid
Thunderbird
Firefox   eyeBeam
SJPhone   Exim
SpamAssasin
clam fetchmail OO.o

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