

SUSE LINUX School Server

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Product Overview

- Based on SUSE LINUX Openexchange Server 4.1
- Aims to provide an all-in-one IT server solution for schools
- Schools were involved in the development process
- Schools have influence on the further development

Server features

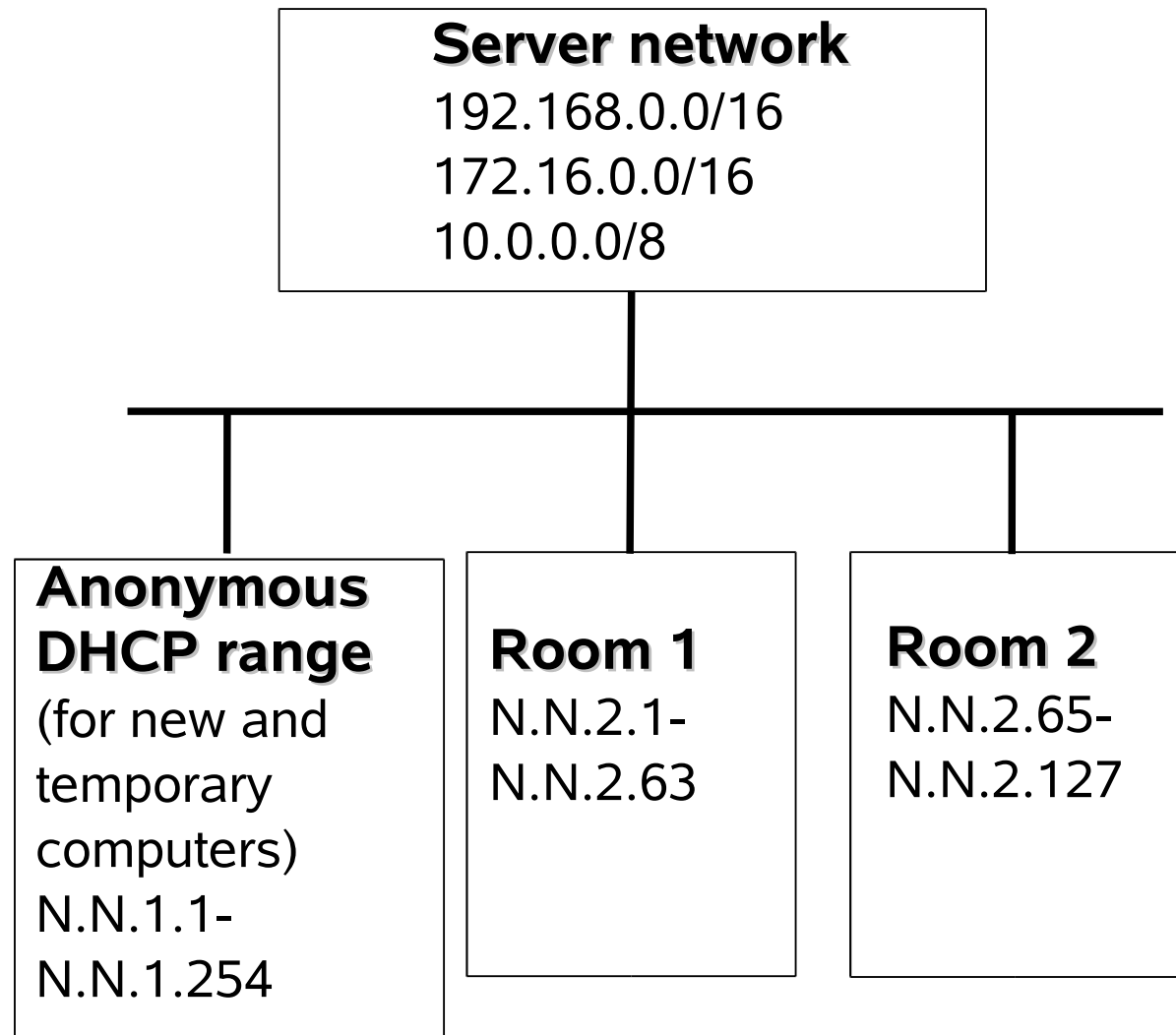
- Network Internet access (Modem, ISDN, DSL, leased line)
- All-in-one IP server: Provides DNS, DHCP, e-mail, LDAP, time and proxy services
- Including firewall web-site-filtering and antivirus solution
- Multi-platform file and print server (Windows PDC, Linux NFS and AppleTalk)
- Transparent deployment in single schools or in school networks
- Excellent scalability
- Supports automated installation of SUSE LINUX based clients
- Simple registration of Windows clients on domains (including predefined login scripts and profiles for user groups)

Browser-accessable graphical user interface (GUI)

- ***Graphical services for all users: Roll-Based-Administration, Webmail, appointments calendar, internal forum***
- Easy-to-use web interface for administrators and teachers
 - User management system, adapted to schools' requirements, including predefined groups (classes, courses, students, staff...)
 - Access to server services (Internet, printing, mail, groupware) can be configured for users and rooms individually
 - Import of student and teacher lists (CSV format)
 - ***Distribution and collection of files by classes groups or rooms***
 - ***Graphical mail and system load statistics***
 - ***Supervision and examination in secured environment***
 - ***External access via HTTPS to the administration, groupware, and file system.***

School-internal network (example)

- Divided into logical networks, each group of computers can be configured individually
- Existing room structures can be reproduced within the School Server



The server network

- The School Server can easily be added to existing structures
- In this scenario, the School Server provides extra functionality, apart from an already-existing gateway

School Server

- Administration
- File, print and mail server
- DNS, DHCP, LDAP, WWW and installation server
- Groupware functionality
- (Internet proxy)

Gateway

- DNS forwarder, NAT

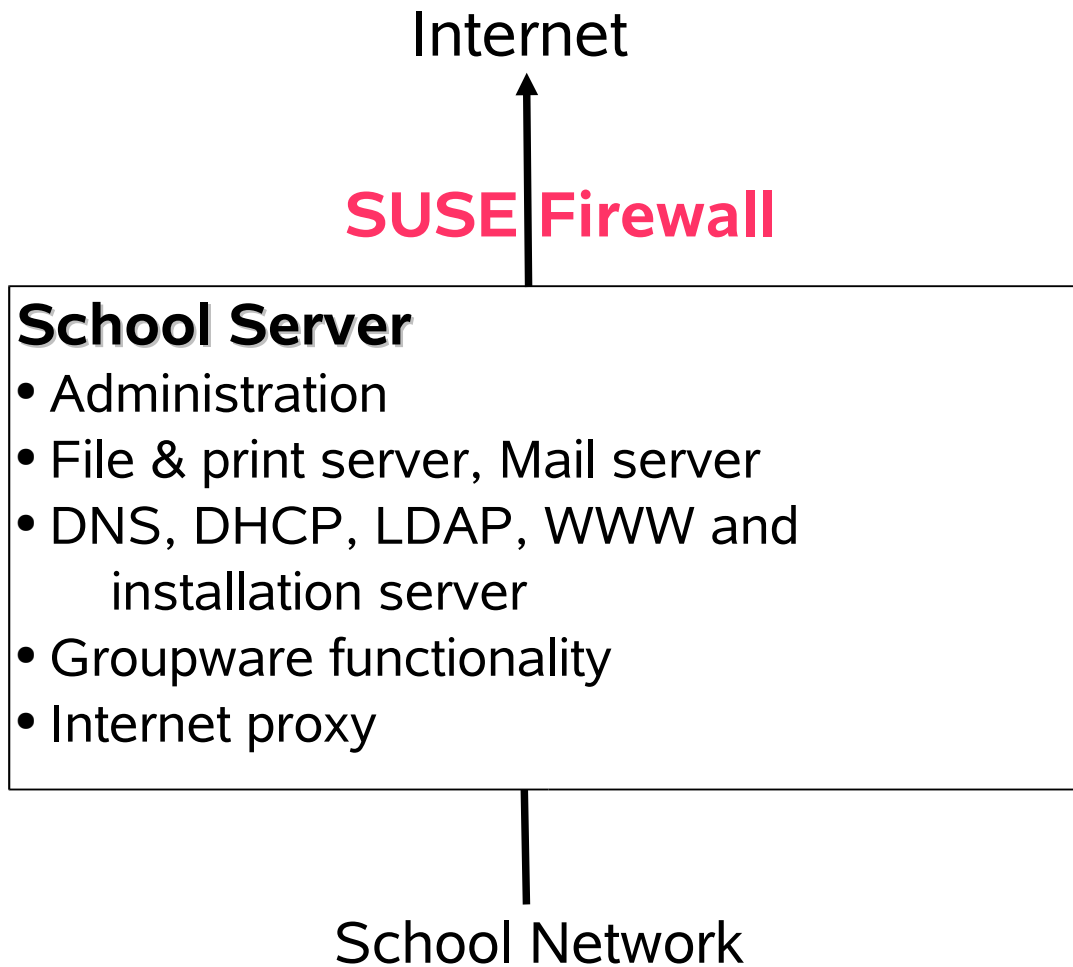
Internet

School Network



All-in-one solution

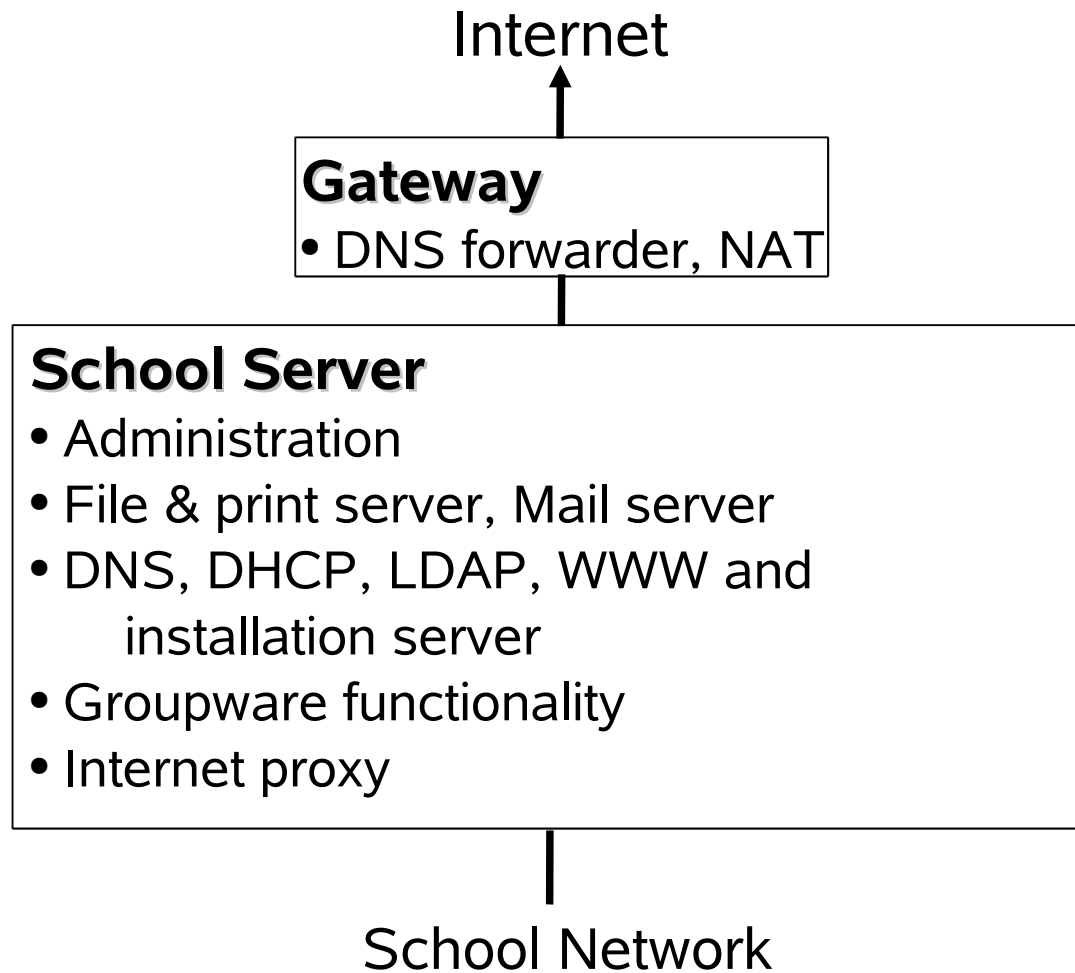
- The School server provides both gateway and extra functionality simultaneously





All-in-one solution with separate gateway

- The School Server also supports already-existing gateways
- In addition to the gateway, the School Server provides firewall and access control services



Scalability

- If necessary, the School Server's services can be distributed among dedicated computers

School Server

Services are distributed among several computers

Server #1

Administration
LDAP
DNS
DHCP
Proxy server

Server #2

Fileserver
(Samba,
NFS)

Server #3

Mail server,
HTTP server,
Groupware

Server #4

Print server
Installation
server

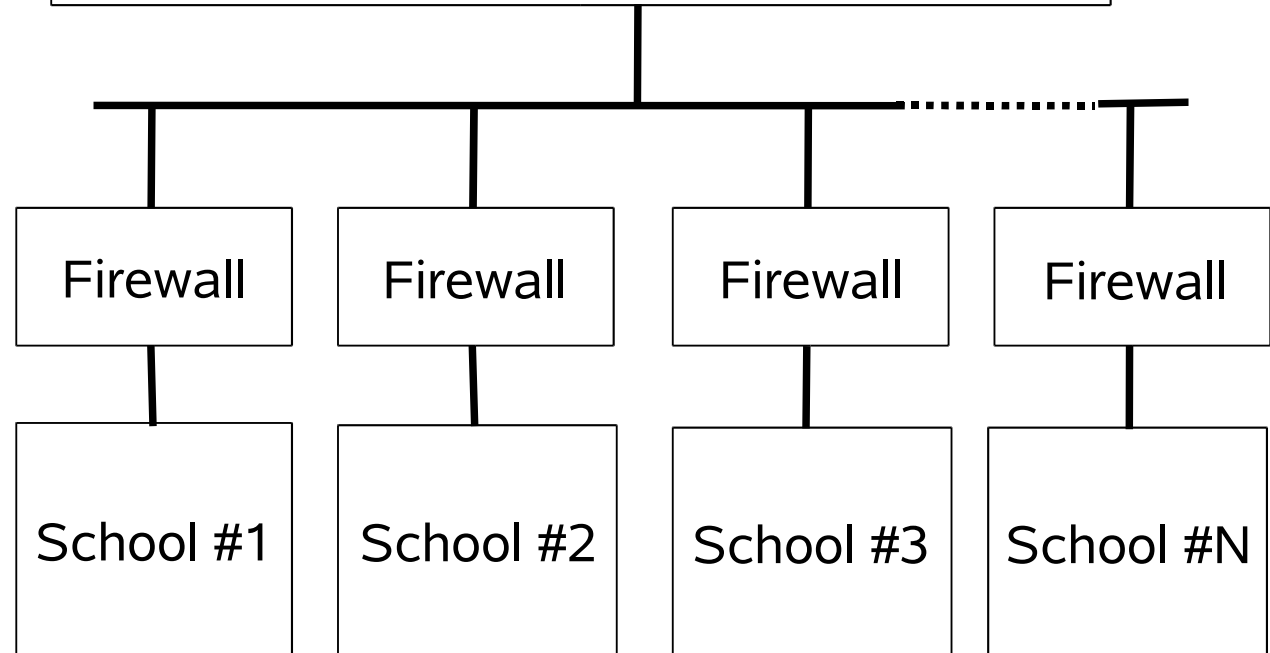
Central administration

- Selected services of the School Server can be provided for a number of schools centrally

School Server

provides services for several schools, e.g.

- Central LDAP, DNS and proxy server
- Central user and network administration





User



Groups and Folders



Mail



Security



Hosts and Domains



Tools



Monitor



Language



Logout

User: cyrus

- New
- Import User
- Edit
- Create Virtual Users
- Edit Virtual Users

New

Create new users.

Import

Read list of students or teachers.

Edit

Edit user (for example, delete, edit, and create or delete certificates).

Create Virtual User

Create a virtual user.

Edit Virtual User

Edit a virtual user.

Add New User

Fields with an "*" must be completed

Login(uid)

Last Name*

First Name*

Birthday* Year: Month: Day:

Password CRYPT

Primary Group

Choose a class for student

Create a default mail alias in the form FirstName.LastName
First name must be specified.

E-Mail Address*

Language

Right to administer (yes/no)

E-Mail Quota (in MB) MB

File system quota (in MB) MB

Long attribute list

Add

Back



User



Groups and Folders



Mail



Security



Hosts and Domains



Tools



Monitor



Language



Logout

User: cyrus

- New
- Control Access
- DNS Configuration
- DHCP Configuration
- Dynamic DNS
- Proxy
- Printer



Join a new workstation or school room to the school network



List of the registered classrooms

edv : 192.168.2.0/26

Name of the new classroom:

Register only the classroom

Choose a Domain

Test-Schule.de

Should the workstation join the Windows domain?

Execute Admission

New

Join a new workstation or school room to the school network.

Control Access

Access control in the School Rooms.

DNS Configuration

Create and delete domains and hosts. Edit SOA, NS, and MX records.

DHCP Configuration

Create and delete subnetworks, groups, IP pools, and hosts. Edit DHCP options and statements.

Dynamic DNS

Create or delete dynamic DNS host name updates.

Proxy

Configure an HTTP proxy.

Printer

Configuration and links to the print server.

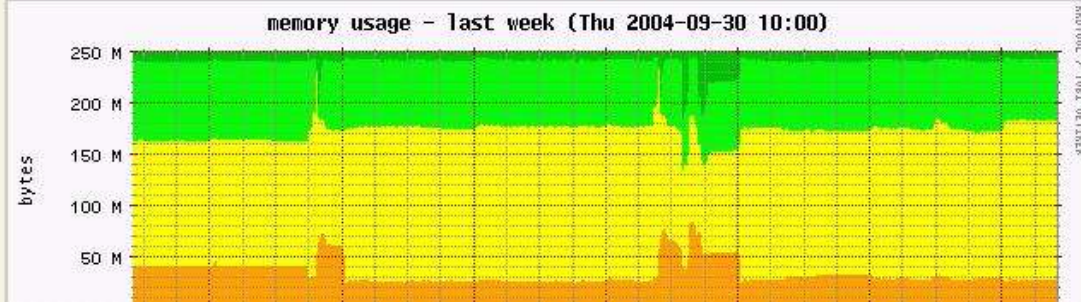
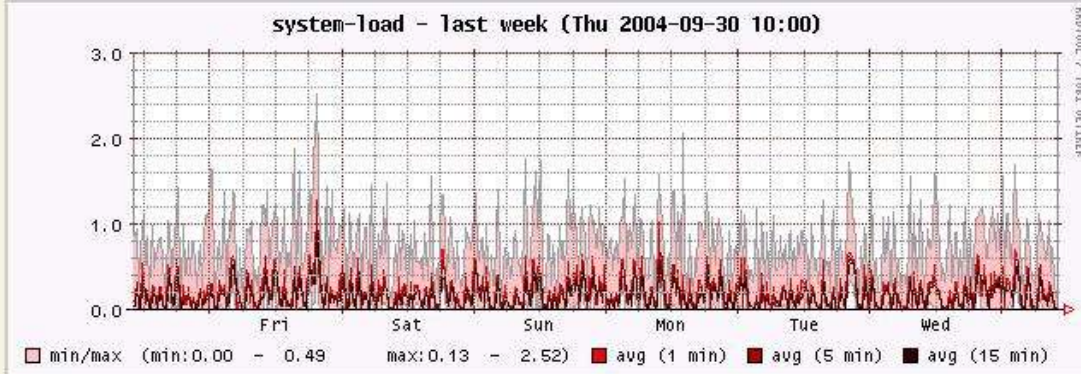
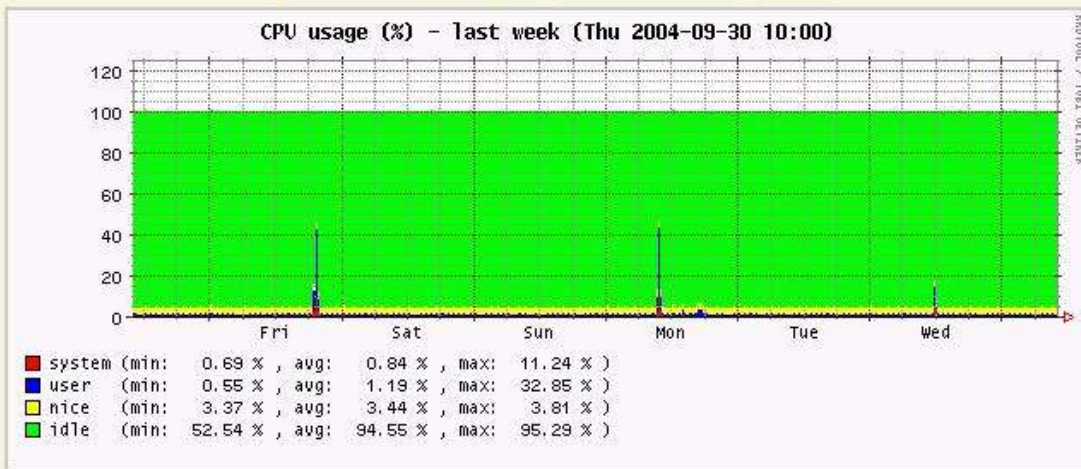
Back

User: cyrus

System Statistics ?

Select...

Select: **System Overview** | this week | View



Online Users

View which users are logged in.

Mail Queue

Monitor and manage the Postfix mail queue.

Mail Statistics

View the mail traffic graphically.

System Statistics

View the system load graphically.

Service Monitoring

Monitor, start, and stop system services.





Settings



Folder



Mail Filter



For Teachers



Language



Logout

For Teachers

User: Boss Big

Control Access

Distribute File

Collect Files

Students

Create Groups

Edit Groups

Control Access

Access control in the actual School Room

Distribute File

Distribute a file into a Class a Group or a School Room.

Collect Files

Collect Files from a Class a Group or a School Room.

Students

Administration of the students datas.

Create Group

Create a new workgroup.

Edit Groups

Edit an existing workgroup (delete the group or add or remove members).



Access control in the current classroom:



Room20 :: 192.168.2.0/26

- Allow Web Access
- Deny Web Access
- Allow Printing Access
- Deny Printing Access
- Allow Mail Access
- Deny Mail Access
- Allow Direct Internet Access
- Deny Direct Internet Access
- Do Not Shut Down Own Workstation

Set Access Control



Configuration of the Proxy Server



- Allow all domains not contained in negative list
- Allow only domains contained in positive list

Positive List (Allowed Domains)

www.china-is-very-nice.com

Set Access Control



Settings



Folder



Mail Filter



For Teachers



Language



Logout

Manage Folder

User: Boss Big

New Edit **Subscribe** File System

New

Create new mail folder.

Edit

Edit mail folder (rename, delete, manage permissions).

Subscribe

Subscribe or unsubscribe to a folder.

File System ACLs

Manage file system ACLs.

File System Management ?

Select a Folder or File

Path: /home/teachers/bigboss

- ..
- +all/
- +allteachers/
- +software/
- Desktop/
- Documents/
- Export/
- Import/
- public_html/

Change to Directory

Set Rights

Download file

Upload file

Status: 10 kB Quota used by 25600 kB



Schoolserver



Home*



Administration*



Email*



Calendar



Addressbook*

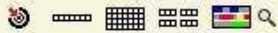


Forum



tforum*

<bigboss> Big, Boss - Thursday* 30.09.2004



Category*:

Filter*:

User*:

Search*

August* 2004

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September* 2004

<bigboss> Big, Boss

October* 2004

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