

# Installing Zimbra

## 1. Configuring Ubuntu 8.04

Download a copy of the Ubuntu 8.04 LTS Server Edition from <http://www.ubuntu.com/download> and install a basic Ubuntu system with it. Don't install/enable any services (such as LAMP or DNS) as these interfere with Zimbra.

### 1.1 Enable the Root Account

To enable the root account, run:

```
sudo passwd root
```

and specify a password for root. Afterwards become root by running:

```
su
```

*NOTE: Unless stated otherwise, all commands from this point on will be run as the root user (su).*

### 1.2 Install the SSH Daemon

Install the SSH Daemon by running:

```
apt-get install ssh openssh-server
```

### 1.3 Apply a Static IP Address and Hostname

Edit /etc/network/interfaces and adjust the last block so it looks like so:

```
nano /etc/network/interfaces

# The primary network interface
auto eth0
iface eth0 inet static
    address 10.33.226.3
    netmask 255.255.248.0
    network 10.33.0.0
    broadcast 10.33.0.255
    gateway 10.33.224.1
```

*NOTE: The settings above are the settings used in the setup at Tanfield School.*

We now need to restart the networking interface for the changes to take effect.

```
/etc/init.d/networking restart
```

Now edit /etc/hosts and adjust it so it looks like so:

```
nano /etc/hosts

127.0.0.1          localhost.localdomain  localhost
10.33.226.3       mail.tanfieldschool.co.uk mail

# Do not edit lines after this!
```

Now run:

```
echo mail.tanfieldschool.co.uk > /etc/hostname
```

and reboot the system:

```
shutdown -r now
```

Once the system restarts run:

```
hostname
hostname -f
```

Both should show **mail.tanfieldschool.co.uk**.

## ***1.4 Update the Packages***

To upgrade the packages on the server run:

```
apt-get update
apt-get upgrade
```

## ***1.5 Change the Default Shell***

It is likely that an error will occur during the Zimbra installation if we do not change the default shell, so to be safe run this:

```
rm -f /bin/sh
ln -s /bin/bash /bin/sh
```

## 2. Installing Zimbra

### 2.1 Installing prerequisites

First we need to install a few prerequisites for Zimbra:

```
apt-get install curl fetchmail libpcre3 libgmp3c2 libexpat1 libxml2  
libtie-ixhash-perl
```

### 2.2 Installing Zimbra

After the prerequisites have installed, browse to <http://www.zimbra.com/community/downloads.html> and make a note of the link available for Ubuntu 8.04 32bit x86. At the time of writing this, it was [http://h.yimg.com/lo/downloads/5.0.16\\_GA/zcs-5.0.16\\_GA\\_2921.UBUNTU8.20090429045342.tgz](http://h.yimg.com/lo/downloads/5.0.16_GA/zcs-5.0.16_GA_2921.UBUNTU8.20090429045342.tgz).

Download this by running:

```
Cd /usr/src  
wget http://h.yimg.com/lo/downloads/5.0.16_GA/zcs-  
5.0.16_GA_2921.UBUNTU8.20090429045342.tgz
```

Once it has downloaded (which can take a while) unpack the TGZ file and start the installer by running:

```
tar xvfz zcs-5.0.16_GA_2921.UBUNTU8.20090429045342.tgz  
cd zcs*  
./install.sh
```

### 2.3 Basic Configuration

The install will ask a few initial configuration questions. Answer them as follows:

Press Return to continue *ENTER*

Install zimbra-ldap [Y] *ENTER*

Install zimbra-logger [Y] *ENTER*

Install zimbra-mta [Y] *ENTER*

Install zimbra-snmp [Y] *ENTER*

Install zimbra-store [Y] *ENTER*

Install zimbra-spell [Y] *ENTER*

The system will be modified. Continue? [N] *Y, ENTER*

The main menu will now be shown. Navigate to the zimbra-store option, and then the admin password option before specifying a new password for the admin user. Make a note of this password.

Continue with the following:

```
Select, or 'r' for previous menu [r]          ENTER

*** CONFIGURATION COMPLETE – press 'a' to apply
Select from menu or press 'a'.....          A, ENTER
Save configuration data to a file? [Yes]       ENTER
Save config in file: [/opt/zimbra/config...   ENTER
The system will be modified – continue?      Y, ENTER

Notify Zimbra of your installation? [Yes]     ENTER
Configuration complete – press return...     ENTER
```

That's all for the basic configuration so we can now delete the Zimbra installation files with:

```
rm -rf /usr/src/zcs-*
```

## 2.4 Further Configuration (Unique to Tanfield School)

Because of the way Tanfield School has the port forwarding setup for all its services, we need to open another port (8080) which forwards onto the default port 80. This will allow access internally (which directly uses port 80) and external access (which uses port 8080).

Firstly we configure IPTables to pick up requests for port 8080 and send them to port 80.

```
iptables -A PREROUTING -t nat -p tcp --dport 8080 -j REDIRECT --to-
continued on same line→port 80
```

However, as soon as the server is restarted these settings will be lost – we need to make them permanent by creating the following file:

```
nano /etc/network/if-up.d/iptables
```

And entering the following:

```
#!/bin/sh

iptables -A PREROUTING (Continue to enter the exact line above)
```

Now we make it executable so that every time the NIC is connected it runs this file:

```
chmod +x /etc/network/if-up.d/iptables
```

### 3. Checking Services are Running

To check that zimbra services are running we need to become the zimbra user and run:

```
su - zimbra  
zmcontrol status
```

The output should look like this:

```
zimbra@mail:~$ zmcontrol status  
Host mail.tanfieldschool.co.uk  
    antispam                Running  
    antivirus                Running  
    ldap                    Running  
    logger                  Running  
    mailbox                 Running  
    mta                     Running  
    snmp                    Running  
    spell                   Running
```

If not all the services are started then run:

```
zmcontrol start
```

Remember that these commands need to be run as the zimbra user.

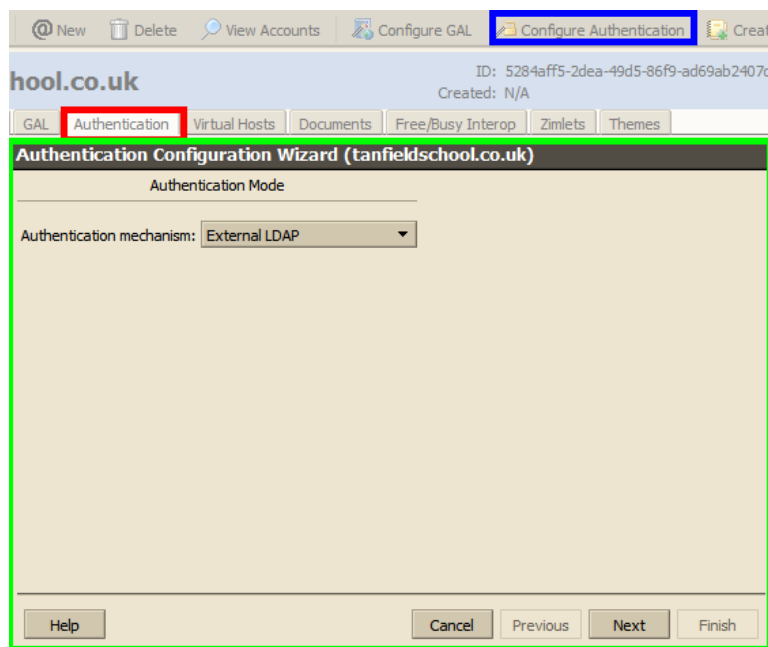
## 4. Configuring Zimbra to use LDAP Authentication

At Tanfield School we use LDAP to authenticate users, meaning users only have to remember their network logon details. To configure LDAP we must logon to the administration console of Zimbra:

<https://mail.tanfieldschool.co.uk:7071>

*Note, for security reasons this area is only accessible from within school.*

Find/create the domain name (tanfieldschool.co.uk) down the left hand side and then click the **Authentication** tab that appears (shown in RED). Click the **Configure Authentication** (shown in BLUE) and the configuration window (shown in GREEN) will appear.



Configure the settings as follows:

Authentication mechanism: External LDAP

**Next**

LDAP Server Name: Server1:389

**Add URL**

LDAP Server Name: Server2:389

**Add URL**

LDAP Server Name: Server3.TANFIELD.internal:389

LDAP Filter: (samAccountName=%u)

LDAP Search Base: OU=TCS,OU=Establishments,DC=TANFIELD,DC=internal

**Next**

Use DN/Password to bind to external server: Checkbox ticked

Bind DN: CN=ldap,CN=Users,DC=domain,DC=internal

Bind password:\*\*\*\*\*

Confirm bind password:\*\*\*\*\*

**Next**

Provide a network username and password to test the ldap settings are correct.

**Test**

**Finish**

## 5. Creating Class of Service (COS)

COS's are an integral part of Zimbra, and define a set of rules each user adheres to. At Tanfield School we currently only use two COS's – one for students and a separate one for staff.

### 5.1 Creating the Staff COS

In the administration console for Zimbra find the **Class of Service** menu item and then create a new COS. Enter the details as follows:

#### General Information

Display name: staff

#### Features

All ticked except: Change password

#### Preferences

Log in using: Advanced (Ajax)

Automatically log in to IM services: Checkbox ticked

Language: English (UK)

Group mail by: Message

Always compose mail using: HTML

Default font: Arial

Default size: 12pt

Use GAL when autocompleting: Checkbox ticked

Time zone: GMT +00:00

First day of week: Monday

#### Advanced

Account quota: 1024 (sets staff to max of 1GB allowed in their mailbox)

### 5.2 Creating the Student COS

In the administration console for Zimbra find the **Class of Service** menu item and then create a new COS. Enter the details as follows:

#### General Information

Display name: students

#### Features (Only the following features to be ticked)

Mail

Address Book

Calendar

HTML Compose

Import/Export

Message priority

Flagging

Mail Filters

Out of office reply

New mail notification  
Instant notifications  
Advanced search  
Saved searches  
Initial search preference

**Preferences**

Log in using: Advanced (Ajax)  
Language: English (UK)  
View mail as HTML: Checkbox ticked  
Group mail by: Message  
Always compose using: HTML  
Default font: Arial  
Default size: 12pt  
Use the GAL when autocompleting: Checkbox NOT ticked  
Time zone: GMT +00:00  
First day of the week: Monday

**Advanced**

Account quota: 40 (Limits students to 40mb maximum in mailbox)

## **6. Automatically Creating Zimbra Users (Python Script)**

[http://www.edugeek.net/wiki/index.php?title=Zimbra\\_autocreate\\_accounts\\_with\\_Active\\_Directory\\_or\\_LDAP](http://www.edugeek.net/wiki/index.php?title=Zimbra_autocreate_accounts_with_Active_Directory_or_LDAP)

## **7. Creating a Bad Word Filtering System**

Thanks to @webman for this:

<http://www.bishopbarrington.net/wiki/howto/zimbracontentfilter>

## **8. Creating a Global Disclaimer**

[http://wiki.zimbra.com/wiki/Adding\\_a\\_disclaimer\\_%28alternative%29\\_or\\_footer](http://wiki.zimbra.com/wiki/Adding_a_disclaimer_%28alternative%29_or_footer)

## A. Upgrading an Existing Install of Zimbra

Upgrading an existing install of Zimbra couldn't be easier. It is always important to read the release notes for the new version, and to ensure that an up-to-date has been taken prior to attempting the upgrade.

Find the latest version of ZCS and download it:

```
cd /usr/src
wget http://h.yimg.com/lo/downloads/5.0.16_GA/zcs-
5.0.16_GA_2921.UBUNTU8.20090429045342.tgz
```

Once it has downloaded (which can take a while) unpack the TGZ file and start the installer by running:

```
tar xvfz zcs-5.0.16_GA_2921.UBUNTU8.20090429045342.tgz
cd zcs*
./install.sh
```

The installer will automatically check to see if this should be installed as an upgrade. Sometimes it will require additional software to be installed first, which can be easily applied using:

```
apt-get install <name of package needed>
```

Once the prerequisites are installed try running this line again to set off the ZCS upgrade:

```
./install.sh
```

Please note that the upgrade process can take some time. Once it has finished remove the install files by entering:

```
rm -rf /usr/src/zcs*
```