

# Serverinstallation Linux

The following steps describe how to install on a Debian 10 server. Generally you can try to install on other Linux systems.

This may work if all Squeeze dependencies like the correct PHP version, PHP modules and Apache extensions are present in your operating systems package repositories.

## Linux (Debian 10)

### 1. Prepare Debian for installation via apt

Before installing Squeeze some third party applications need to be installed. Follow the steps below to install these applications.

Please note that using a proxy to connect to the internet might need some additional configuration like:

```
| export https_proxy=https://proxy.intra.net:proxy_port |
```

or

```
| export http_proxy=http://user:password@proxy.intra.net:proxy_port |
```

```
apt update  
apt upgrade
```

### 2. Install PHP 7.4

```
apt-get update  
apt-get install php7.4 php7.4-cli php7.4-common php7.4-imap php7.4-mysql php7.4-mailparse  
php7.4-bcmath php7.4-intl php7.4-gd php7.4-xml php7.4-xsl php7.4-mbstring php7.4-opcache  
php7.4-curl php7.4-zip php7.4-bz2 php7.4-soap php7.4-json php7.4-imagick libapache2-mod-php7.4
```

### 3. Install Apache

To install Apache run the following command

```
apt install apache2
```

And enable the following modules

```
a2enmod proxy rewrite deflate filter headers
```

## 4. Install MariaDB

```
apt update  
apt install mariadb-server  
systemctl status mariadb
```

run the follwing command and follow the instructions to secure the installation:

```
mysql_secure_installation
```

Create a new user for later use

```
mysql --user=root mysql
```

```
CREATE USER 'squeeze'@'localhost' IDENTIFIED BY 'secret';  
GRANT ALL PRIVILEGES ON *.* TO 'squeeze'@'localhost' WITH GRANT OPTION;  
FLUSH PRIVILEGES;
```

## 5. Install RabbitMQ

Run the following command to install RabbitMQ including the management web interface

```
apt-get install rabbitmq-server  
rabbitmq-plugins enable rabbitmq_management
```

If needed add a new user to RabbitMQ

```
rabbitmqctl add_user username password  
rabbitmqctl set_user_tags username administrator  
rabbitmqctl set_permissions -p / username ".*" ".*" ".*"
```

## 6. Install ElasticSearch

Run the following command to install ElasticSearch

```
nano /etc/apt/sources.list
```

```
deb http://ftp.us.debian.org/debian sid main

apt-get update
apt install openjdk-8-jre-headless

apt install gnupg2
wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | apt-key add -
echo "deb https://artifacts.elastic.co/packages/5.x/apt stable main" | tee -a
/etc/apt/sources.list.d/elastic-5.x.list
apt update && apt upgrade
apt install apt-transport-https uuid-runtime pwgen
apt update
apt install elasticsearch

cd /usr/share/elasticsearch/bin
./elasticsearch-plugin install analysis-icu
./elasticsearch-plugin install mapper-attachments
```

To be able to install the plugins behind a proxy please use the following commands:

```
ES_JAVA_OPTS="-Dhttp.proxyHost=proxy.intra.net -Dhttp.proxyPort=3128 -
Dhttps.proxyHost=proxy.intra.net -Dhttps.proxyPort=3128" ./elasticsearch-plugin install
analysis-icu
ES_JAVA_OPTS="-Dhttp.proxyHost=proxy.intra.net -Dhttp.proxyPort=3128 -
Dhttps.proxyHost=proxy.intra.net -Dhttps.proxyPort=3128" ./elasticsearch-plugin install
mapper-attachments
```

Optional:

```
nano /etc/elasticsearch/elasticsearch.yml
cluster.name: my-application

/etc/elasticsearch/jvm.options
-Xms512m
-Xmx512m
```

Enable and start ElasticSearch

```
systemctl daemon-reload
systemctl enable elasticsearch.service
```

```
systemctl restart elasticsearch.service  
systemctl status elasticsearch.service
```

## 7. Install additional tools

```
apt install tesseract-ocr tesseract-ocr-deu imagemagick ghostscript poppler-utils zbar-tools  
git sudo
```

## 8. Install Squeeze

```
cd /var/www/html  
git clone https://git.dexpro-solutions.de/dex/squeeze/Squeeze.git  
  
chown -R www-data Squeeze/  
chmod -R 775 Squeeze/
```

Edit the default virtual host or create a new virtual host:

```
nano /etc/apache2/sites-enabled/000-default.conf  
  
DocumentRoot /var/www/html/Squeeze/public  
<Directory "/var/www/html/Squeeze/public">  
    AllowOverride All  
</Directory>
```

Now restart the apache webserver:

```
systemctl restart apache2
```

## 9. Web installer

Once the installer finished, start your preferred browser and open <http://localhost> to run the web installer

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