

Nextcloud Installation

Preparation

Change root password

```
passwd
```

Update keys if needed

```
rm /etc/ssh/ssh_host_* && dpkg-reconfigure openssh-server
```

Update system

```
apt update && apt upgrade && apt dist-upgrade && apt autoremove
```

Install nano-editor

```
apt install nano
```

Setup for Nextcloud

These variables need to be adapted for your nextcloud instance

- URL of Cloud: www.mycloud.com
- Existing MySQL Root Password: <oldmysqlrootpassword>
- New MySQL Root Password: <mysqlrootpassword>
- Password of database user nextcloud: <ncdbpassword>
- Admin user of Nextcloud: <ncwebadmin>
- Password of admin user of Nextcloud: <ncwebadminpassword>

Install new packages

```
apt install apache2 mysql-server libapache2-mod-php php-gd php-json php-mysql php-curl php-intl php-mcrypt php-imagick php-dom php-zip php-mbstring php-apcu python-letsencrypt-apache unzip
```

If needed change mysql root password

```
mysqladmin -u root -p <oldmysqlrootpassword> password <mysqlrootpassword>
```

Create nextcloud user and database

```
mysql -u root -p  
<mysqlrootpassword>
```

```
create database nextcloud;
CREATE USER 'nextcloud'@'localhost' IDENTIFIED BY '<ncdbpassword>';
grant all on nextcloud.* to 'nextcloud'@'localhost';
quit;
```

Get and install nextcloud (if needed check for newer version)

```
mkdir /var/www/ncdata
chown www-data:www-data /var/www/ncdata -R
wget https://download.nextcloud.com/server/releases/nextcloud-11.0.0.zip
unzip nextcloud-11.0.0.zip
mv nextcloud /var/www/html/cloud
chown www-data:www-data /var/www/html/cloud/ -R
rm nextcloud-11.0.0.zip
```

Get certificate from letsencrypt

```
letsencrypt --apache -d <www.mycloud.com>
letsencrypt renew
```

Enable apache modules

```
a2enmod rewrite
a2enmod headers
a2enmod env
a2enmod dir
a2enmod mime
a2enmod setenvif
a2enmod ssl
```

Edit php.ini file

```
nano /etc/php/7.0/apache2/php.ini
```

Change the following values

[php.ini](#)

```
memory_limit = 512M
upload_max_filesize = 16G
post_max_size = 16G
max_input_time 3600
max_execution_time 3600
```

Edit apache config file

```
nano /etc/apache2/sites-available/000-default-le-ssl.conf
```

Append

000-default-le-ssl.conf

```
<IfModule mod_headers.c>  
Header always set Strict-Transport-Security "max-age=15768000;  
includeSubDomains; preload"  
</IfModule>
```

Restart apache server

```
service apache2 restart
```

Edit nextcloud config file

```
nano /var/www/html/nextcloud/config/config.php
```

Add 2 lines

config.php

```
'memcache.local' => '\OC\Memcache\APCu',  
'enable_previews' => 'false',
```

Edit crontab

```
crontab -u www-data -e
```

Append new entry

crontab

```
*/15 * * * * php -f /var/www/html/cloud/cron.php
```

Edit crontab

```
crontab -e
```

Append new entry

crontab

```
30 2 * * 1 /usr/bin/letsencrypt renew >> /var/log/le-renew.log
```

Perform security test via browser

```
https://www.ssllabs.com/ssltest/analyze.html?d=<www.mycloud.com>&hideResults
```

```
=on&latest
```

Email Setup

These variables need to be adapted for your nextcloud instance

- Mail account: cloudadmin@gmx.net
- Password of mail account: <mailpassword>
- Recipient of mail: to@mail.com

Setup of msmtp

Install msmtp

```
apt-get install msmtp
```

Modify configuration file

```
nano ~/.msmtprc
```

Enter

[.msmtprc](#)

```
# config options:
http://msmtplib.sourceforge.net/doc/msmtplib.html#A-user-configuration-file
defaults
logfile /tmp/msmtplib.log

# settings for cloudadmin
account cloudadmin
auth on
host mail.gmx.net
port 587
user <cloudadmin@gmx.net>
from <cloudadmin@gmx.net>
password <mailpassword>
tls on
tls_trust_file /etc/ssl/certs/ca-certificates.crt

# set default account to
account default: cloudadmin
```

Change access rights to configuration file to protect password for other users

```
chmod 600 ~/.msmtprc
```

Setup of mailx

Install mailx

```
apt-get install heirloom-mailx
```

Modify configuration file

```
nano ~/.mailrc
```

Enter

[.mailrc](#)

```
# set smtp for mailx

# (default)
set from="NextCloud"
set sendmail="/usr/bin/msmtp"
set message-sendmail-extra-arguments="-a cloudadmin"

account cloud {
    set from="NextCloud"
    set sendmail="/usr/bin/msmtp"
    set message-sendmail-extra-arguments="-a cloudadmin"
}

account monitoring {
    set from="NextCloud Monitoring"
    set sendmail="/usr/bin/msmtp"
    set message-sendmail-extra-arguments="-a cloudadmin"
}
```

Send test mail

```
echo "This is a test mail from your NextCloud" | mailx -A cloud -s
"NextCloud Test Mail" <to@mail.com>
echo "This is a test mail from your NextCloud-Monitoring" | mailx -A
monitoring -s "NextCloud-Monitoring Test Mail" <to@mail.com>
```

Setup of Weekly Disk Usage Status Mail

Edit crontab

```
crontab -e
```

Append new entry

crontab

```
0 0 * * 0 df | mailx -A monitoring -s "NextCloud Info - Disk Usage  
Status" <to@mail.com> &> /dev/null
```

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