* Spek Ubuntu 20.04
  + 50 GB
  + 100 GB
* Nextcloud 23.02

**1. Install LAMP**

sudo apt-fast install apache2 mysql-server -y

sudo mysql\_secure\_installation

sudo systemctl start apache2

sudo systemctl enable apache2

sudo systemctl start mysql

sudo systemctl enable mysql

sudo apt-fast install php zip libapache2-mod-php php-gd php-json php-mysql php-curl php-mbstring php-intl php-imagick php-xml php-zip php-mysql php-bcmath php-gmp zip unzip -y

**2. Create Nextcloud DB (MySQL)**

sudo mysql -u root -p

CREATE DATABASE nextcloud;

CREATE USER 'nextcloud'@'localhost' IDENTIFIED BY 'PASSWORD';

GRANT ALL PRIVILEGES ON nextcloud.\* TO 'nextcloud'@'localhost';

GRANT ALL PRIVILEGES ON nextcloud.\* TO 'root'@'localhost';

FLUSH PRIVILEGES;

exit

**3. Install Nextcloud**

DEFAULT DATA DIRECTORY : /var/www/html/nextcloud/data

wget -c https://download.nextcloud.com/server/releases/nextcloud-23.0.2.zip

sudo unzip nextcloud-23.0.2.zip

sudo mv nextcloud /var/www/html/

sudo chown -R www-data:www-data /var/www/html/nextcloud

sudo systemctl restart apache2

sudo nano /etc/apache2/sites-available/nextcloud.conf

#Alias / "/var/www/html/nextcloud/"

<Directory /var/www/html/nextcloud/>

Require all granted

AllowOverride All

Options FollowSymLinks MultiViews

<IfModule mod\_dav.c>

Dav off

</IfModule>

</Directory>

**SAVE**

sudo a2ensite nextcloud 🡺 ENABLE NEXTCLOUD.CONF configuration

sudo systemctl restart apache2

**4. Install APCu and Redis**

sudo apt-fast install php-apcu redis-server php-redis php-zip php-dompdf php-xml php-mbstring php-gd php-curl unzip \

php-intl php-bcmath php-gmp php-imagick libmagickcore-6.q16-6-extra -y

sudo a2enmod rewrite headers env dir mime

sudo sed -i '/^memory\_limit =/s/=.\*/= 1024M/' /etc/php/7.4/apache2/php.ini

sudo systemctl restart apache2

**5. Redis cache caching config**

sudo nano /etc/redis

port 6379 🡺 port 0

unixsocket /var/run/redis/redis.sock

unixsocketperm 770

**SAVE**

sudo usermod -a -G redis www-data

sudo systemctl restart apache2

sudo service redis-server start

**6. Remap data folder to a dedicated partition**

sudo df -h

sudo blkid /dev/sdb1

sudo nano /etc/fstab

UUID="8563319b-24ba-4539-ab08-d7b231dfc07d" /var/www/html/nextcloud/data ext4 defaults 0 0

sudo cp -rT /var/www/html/nextcloud/data /data

sudo chown -R www-data:www-data /data

sudo chown -R www-data:www-data /var/www/html/nextcloud/data

sudo reboot

sudo df -h

"/dev/sdb1 98G 535M 93G 1% /var/www/html/nextcloud/data"

sudo a2enmod rewrite headers env dir mime

sudo systemctl restart apache2

**7. Finalize Nextcloud**

http://192.168.153.130

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

ADD THE FOLLOWING:

'memcache.local' => '\\OC\\Memcache\\Redis',

'memcache.locking' => '\\OC\\Memcache\\Redis',

'filelocking.enabled' => 'true',

'redis' =>

array (

'host' => '/var/run/redis/redis.sock',

'port' => 0,

'timeout' => 0.0,

),

SAVE

sudo reboot

sudo systemctl enable redis-server

**FINE TUNING NEXTCLOUD**

sudo nano /etc/php/7.3/apache2/php.ini

opcache.enable=1

opcache.enable\_cli=1

opcache.interned\_strings\_buffer=8

opcache.max\_accelerated\_files=10000

opcache.memory\_consumption=128

opcache.save\_comments=1

opcache.revalidate\_freq=1

**FINE TUNING UBUNTU**

sudo nano /etc/sysctl.conf **AND** paste the following, **SAVE AND RESTART.**

vm.nr\_hugepages = 2048

vm.swappiness = 10

vm.vfs\_cache\_pressure = 50

vm.overcommit\_memory = 1

vm.overcommit\_ratio = 70

vm.dirty\_ratio = 10

vm.dirty\_background\_ratio = 5

vm.compaction\_proactiveness=0

net.core.rmem\_max = 12582912

net.core.wmem\_max = 12582912

net.core.netdev\_max\_backlog = 9000

net.core.somaxconn = 512

net.ipv4.tcp\_timestamps = 0

net.ipv4.tcp\_sack = 0

net.ipv4.tcp\_dsack = 0

net.ipv4.tcp\_fack = 0

sysctl -w net.ipv4.tcp\_rmem = 4096 87380 9437184

sysctl -w net.ipv4.tcp\_wmem = 4096 87380 9437184

net.ipv4.ipfrag\_low\_thresh = 393216

net.ipv4.ipfrag\_high\_thresh = 544288

net.ipv4.tcp\_max\_syn\_backlog = 8192

net.ipv4.tcp\_synack\_retries = 3

net.ipv4.tcp\_retries2 = 6

net.ipv4.tcp\_keepalive\_time = 1000

net.ipv4.tcp\_keepalive\_probes = 4

net.ipv4.tcp\_keepalive\_intvl = 20

net.ipv4.tcp\_tw\_recycle = 1

net.ipv4.tcp\_tw\_reuse = 1

net.ipv4.tcp\_fin\_timeout = 30

net.ipv4.tcp\_mtu\_probing = 1

net.core.default\_qdisc=fq

net.ipv4.tcp\_congestion\_control=bbr

kernel.sem = 250 32000 100 128

kernel.shmall = 2097152

kernel.shmmax = 2147483648

kernel.shmmni = 4096

fs.inotify.max\_user\_watches = 524288

fs.file-max = 1000000

**APT-FAST**

sudo /bin/bash -c "$(curl -sL https://git.io/vokNn)"

sudo nano /etc/apt-fast.conf

\_MAXNUM=16

\_MAXCONPERSRV=16

\_SPLITCON=8

\_MINSPLITSZ="1M"

# Default colors are:

cGreen='\e[0;32m'

cRed='\e[0;31m'

cBlue='\e[0;34m'

endColor='\e[0m'

sudo apt-fast update

sudo apt-fast dist-upgrade