Cara Install Nextcloud Server di CentOS 7

Artikel ini saya tulis sebagai dokumentasi setelah mengikuti KULGRAM #05 Komunitas GNU/Linux Malang (KLiM) yang dibawakan oleh pak Nur Hamim. Materi yang dibahas pada kulgram kali ini adalah Nextcloud. Nextcloud adalah aplikasi open source yang dapat digunakan untuk membuat cloud storage atau penyimpanan data di mana anda dapat menyimpan berbagai macam ekstensi data ataupun file statik seperti halnya file music, video, dan sebagainya. Secara fungsi Nextcloud hampir sama seperti Google Drive atau Dropbox, bahkan Nextcloud juga dapat dimanfaatkan untuk berbagai macam kepetingan dan kebutuhan misalnya video conference antar pengguna Nextcloud dan masih banyak lainnya.

0. Requirement

Nextcloud yang akan diinstall adalah versi 14, jadi requirement yang digunakan juga untuk versi 14.

Operating System

Ubuntu 16.04/18.04 LTS (recommended)

Red Hat Enterprise Linux 7 (recommended)

Debian 8 (Jessie), 9 (Stretch)

SUSE Linux Enterprise Server 11 with SP3 & 12

openSUSE Leap 42.1+

CentOS 7

Database

MySQL or MariaDB 5.5+ (recommended)

Oracle Database 11g (only as part of an enterprise subscription)

PostgreSQL 9/10

SQLite (only recommended for testing and minimal-instances)

Web Server

Apache 2.4 with mod\_php or php-fpm (recommended)

nginx with php-fpm

PHP Runtime

7.0

7.1

7.2

Memory

Nextcloud minimum membutuhkan RAM 128MB, direkomendasikan minimum 512MB.

Desktop Client

Direkomendasikan menggunakan sistem operasi terbaru.

Windows 7+

macOS Lion (10.7)+ (64-bit only)

Linux (CentOS 6.5+, Ubuntu 14.04+, Fedora 21+, openSUSE 13, SUSE Linux Enterprise 11 SP3+, Debian 8 (Jessie)+, Red Hat Enterprise Linux 7)

Mobile Apps

Direkomendasikan menggunakan sistem operasi mobile terbaru.

iOS 9.x+

Android 4.x+

Web Browser

Direkomendasikan menggunakan web browser terbaru.

Microsoft Internet Explorer 11 (latest version)

Microsoft Edge

Mozilla Firefox

Google Chrome/Chromium

Apple Safari

1. Install Paket Pendukung

Update system

#yum update -y

Install paket dependensi

#yum install -y epel-release yum-utils unzip curl wget bash-completion policycoreutils-python mlocate bzip2

2. Apache Web Server

Install Apache

#yum install httpd -y

Buat konfigurasi virtual host

#nano /etc/httpd/conf.d/nextcloud.conf

<VirtualHost \*:80>

 DocumentRoot /var/www/html/nextcloud

 ServerName namadomain.com

 <Directory "/var/www/html/">

     Require all granted

     AllowOverride All

     Options FollowSymLinks MultiViews

 </Directory>

</VirtualHost>

ServerName bisa pasang IP server, nama domain, atau sub domain.

Kemudian jalankan service httpd (apache)

#systemctl start httpd

#systemctl enable httpd

#systemctl status httpd

3. PHP Engine

Selanjutnya install repository webtatic untuk instalasi PHP 7.2

#rpm -Uvh https://mirror.webtatic.com/yum/el7/webtatic-release.rpm

Install PHP 7.2

#yum install -y php72w php72w-cli php72w-common php72w-curl php72w-gd \

php72w-mbstring php72w-mysqlnd php72w-process php72w-xml php72w-zip \

php72w-opcache php72w-pecl-apcu php72w-intl php72w-pecl-redis

4. MariaDB Database

Install database MariaDB

#yum install mariadb-server -y

Jalankan service mariadb

#systemctl start mariadb

#systemctl enable mariadb

#systemctl status mariadb

Konfigurasi awal MariaDB

#mysql\_secure\_installation

Jawab pertanyaan konfigurasi

Enter current password for root (enter for none): enter

Change the root password? [Y/n] y

Remove anonymous users? [Y/n] y

Disallow root login remotely? [Y/n] y

Remove test database and access to it? [Y/n] y

Reload privilege tables now? [Y/n] y

Login ke MariaDB

#mysql -u root -p

Buat database dan usernya

MariaDB [(none)]> create database nextcloud;

Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> create user 'usernextcloud'@'localhost' identified by 'passwordnya-nextcloud';

Query OK, 0 rows affected (0.04 sec)

MariaDB [(none)]> grant all privileges on nextcloud.\* to 'usernextcloud';

Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> flush privileges;

Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> exit

5. Nextcloud

Download Nextcloud

#wget https://download.nextcloud.com/server/releases/nextcloud-14.0.4.zip

Extract dan copy Nextcloud ke /var/www/html

#unzip nextcloud-14.0.4.zip

#cp -R nextcloud /var/www/html/

Buat folder data

#mkdir /var/www/html/nextcloud/data

Beri hak akses dan owner folder nextcloud

#chown -R apache:apache /var/www/html/nextcloud/

#chmod -R 755 /var/www/html/nextcloud/

Restart service httpd

#systemctl restart httpd

Akses nama domain atau IP server yang dipakai pada konfigurasi virtual host Apache. Masukkan user admin nextcloud dan konfigurasi database.

6. SSL (Opsional)

Selanjutnya kita bisa menambahkan SSL agar lebih aman.

#Install yum-utils

#yum -y install yum-utils

#yum-config-manager --enable rhui-REGION-rhel-server-extras rhui-REGION-rhel-server-optional

Install certbot apache

#yum -y install python2-certbot-apache

Lalu jalan certbot untuk generate SSL dengan membaca konfigurasi virtual host Apache

#certbot --apache

Isian pertanyaan certbot:

Enter email address (used for urgent renewal and security notices) (Enter 'c' to

cancel): alamat@email.com

Please read the Terms of Service at

https://letsencrypt.org/documents/LE-SA-v1.2-November-15-2017.pdf. You must

agree in order to register with the ACME server at

https://acme-v02.api.letsencrypt.org/directory

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

(A)gree/(C)ancel: A

Would you be willing to share your email address with the Electronic Frontier

Foundation, a founding partner of the Let's Encrypt project and the non-profit

organization that develops Certbot? We'd like to send you email about our work

encrypting the web, EFF news, campaigns, and ways to support digital freedom.

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

(Y)es/(N)o: Y

Which names would you like to activate HTTPS for?

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

1: namadomain.com

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

Select the appropriate numbers separated by commas and/or spaces, or leave input

blank to select all options shown (Enter 'c' to cancel): 1

Please choose whether or not to redirect HTTP traffic to HTTPS, removing HTTP access.

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

1: No redirect - Make no further changes to the webserver configuration.

2: Redirect - Make all requests redirect to secure HTTPS access. Choose this for

new sites, or if you're confident your site works on HTTPS. You can undo this

change by editing your web server's configuration.

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

Select the appropriate number [1-2] then [enter] (press 'c' to cancel): 2

Akses kembali namadomain untuk menguji apakah sertifikat SSL sudah terpasang (HTTPS).

7. External Storage

Jika memiliki storage seperti Amazon S3, FTP/FTPS, SFTP, atau OpenStack Object Storage, kita dapat memasukkannya (attach/mount) ke Nextcloud. Caranya dengan mengaktifkan Apps Nextcloud dengan nama External Storages, kemudian pada menu Settings->Administration->External Storages konfigurasikan storage yang ingin dimount.\

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