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## Praktikum 14 Install ownCloud on CentOS 7

### Step 1 : Create a MySQL Database

- A MySQL database is required to store ownCloud files and extensions. So let's create one; first, login to the MySQL console.

```
[root@localhost ~]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 3
Server version: 5.5.68-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

- Enter your MySQL root password. Once logged in, create a new database for ownCloud.

```
MariaDB [(none)]> CREATE DATABASE owncloud;
Query OK, 1 row affected (0.00 sec)
```

- Create a new database user and assign a strong password.

```
MariaDB [(none)]> CREATE USER 'jaka'@'localhost' IDENTIFIED BY 'qrman9872aka';
Query OK, 0 rows affected (0.00 sec)
```

- Now, grant the new user full rights to the ownCloud database.

```
MariaDB [(none)]> GRANT ALL PRIVILEGES ON owncloud.* TO 'jaka'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

- Refresh the MySQL user privileges and exit the console.

```
MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)
```

### Step 2 : Install PHP and Necessary Extensions

- ownCloud requires 7.2 or above to run, so we need to be sure that at least PHP 7.4 is installed. To do this, let's add a new trusted PHP 7 repository.

```
[root@localhost ~]# sudo yum install -y http://rpms.remirepo.net/enterprise/remi-release-7.rpm
Loaded plugins: fastestmirror
remi-release-7.rpm | 23 kB 00:00:00
Examining /var/tmp/yum-root-b4BTtj/remi-release-7.rpm: remi-release-7.9-4.el7.remi.noarch
Marking /var/tmp/yum-root-b4BTtj/remi-release-7.rpm to be installed
Resolving Dependencies
--> Running transaction check
---> Package remi-release.noarch 0:7.9-4.el7.remi will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
remi-release noarch 7.9-4.el7.remi /remi-release-7 35 k

Transaction Summary
=====
Install 1 Package

Total size: 35 k
Installed size: 35 k
Downloading packages:
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : remi-release-7.9-4.el7.remi.noarch 1/1
  Verifying : remi-release-7.9-4.el7.remi.noarch 1/1
```

- Now, install PHP and all required extensions.

```
[root@localhost ~]# sudo yum --enablerepo=remi-php74 install php php-bz2 php-mysql php-curl php-gd php-intl php-common php-mbstring php-xml php-zip php-posix -y
Loaded plugins: fastestmirror
Determining fastest mirrors
epel/x86_64/metalink | 7.7 kB 00:00:00
```

### Step 3 : Install ownCloud

- Install the wget and unzip packages.

```
[root@localhost ~]# sudo yum install wget unzip
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
* base: mirror.dimensi.cloud
* epel: mirrors.nipa.cloud
* extras: centos.mirror.angkasa.id
* remi-safe: ftp.riken.jp
* updates: centos.mirror.angkasa.id
Resolving Dependencies
--> Running transaction check
---> Package unzip.x86_64 0:6.0-24.el7_9 will be installed
---> Package wget.x86_64 0:1.14-18.el7_6.1 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                Arch             Version           Repository        Size
=====
Installing:
unzip                  x86_64           6.0-24.el7_9      updates           172 k
wget                   x86_64           1.14-18.el7_6.1   base              547 k
=====

Transaction Summary
=====
Install 2 Packages
```

- Now, download the owncloud-complete file.

```
[root@localhost ~]# wget https://download.owncloud.org/community/owncloud-complete-20210721.zip
--2022-12-08 01:47:04-- https://download.owncloud.org/community/owncloud-complete-20210721.zip
Resolving download.owncloud.org (download.owncloud.org)... 159.69.120.124, 2a01:4f8:1c17:73e0::1
Connecting to download.owncloud.org (download.owncloud.org)|159.69.120.124|:443... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://download.owncloud.com/ [following]
--2022-12-08 01:47:05-- https://download.owncloud.com/
Resolving download.owncloud.com (download.owncloud.com)... 167.233.14.167, 2a01:4f8:1c1d:3d1::1
Connecting to download.owncloud.com (download.owncloud.com)|167.233.14.167|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'owncloud-complete-20210721.zip'

[ <=> ] 6,169 --.-K/s in 0s

2022-12-08 01:47:07 (44.8 MB/s) - 'owncloud-complete-20210721.zip' saved [6169]
```

- Move the downloaded file to /var/www/html/.

```
[root@localhost ~]# sudo mv owncloud-complete-20210721.zip /var/www/html/
```

- Now, uncompress the owncloud-complete.zip file to ready installation files.

```
root@localhost:/var/www/html
inflating: owncloud/lib/private/ServerNotAvailableException.php
creating: owncloud/lib/private/Theme/
inflating: owncloud/lib/private/Theme/Theme.php
inflating: owncloud/lib/private/Theme/ThemeService.php
inflating: owncloud/lib/private/Repair.php
creating: owncloud/lib/private/L10N/
inflating: owncloud/lib/private/L10N/L10N.php
inflating: owncloud/lib/private/L10N/Factory.php
creating: owncloud/lib/private/Repair/
inflating: owncloud/lib/private/Repair/CleanTags.php
inflating: owncloud/lib/private/Repair/UpdateCertificateStore.php
inflating: owncloud/lib/private/Repair/FillETags.php
inflating: owncloud/lib/private/Repair/RepairMismatchFileCachePath.php
inflating: owncloud/lib/private/Repair/Preview.php
inflating: owncloud/lib/private/Repair/DisableExtraThemes.php
inflating: owncloud/lib/private/Repair/RemoveGetETagEntries.php
inflating: owncloud/lib/private/Repair/OldGroupMembershipShares.php
inflating: owncloud/lib/private/Repair/DropOldTables.php
inflating: owncloud/lib/private/Repair/SharePropagation.php
inflating: owncloud/lib/private/Repair/RemoveRootShares.php
inflating: owncloud/lib/private/Repair/DropOldJobs.php
inflating: owncloud/lib/private/Repair/Apps.php
inflating: owncloud/lib/private/Repair/RepairInvalidShares.php
inflating: owncloud/lib/private/Repair/SqliteAutoincrement.php
inflating: owncloud/lib/private/Repair/RepairUnmergedShares.php
inflating: owncloud/lib/private/Repair/Collation.php
inflating: owncloud/lib/private/Repair/RepairSubShares.php
inflating: owncloud/lib/private/Repair/RepairMimeType.php
inflating: owncloud/lib/private/Repair/RepairOrphanedSubshare.php
inflating: owncloud/lib/private/Repair/InnoDB.php
inflating: owncloud/lib/private/Repair/MoveAvatarIntoSubFolder.php
inflating: owncloud/lib/private/Repair/MoveAvatarOutsideHome.php
inflating: owncloud/lib/private/Repair/SearchLuceneTables.php
inflating: owncloud/lib/private/AppConfig.php
creating: owncloud/resources/
creating: owncloud/resources/config/
inflating: owncloud/resources/config/mimetypealiases.dist.json
inflating: owncloud/resources/config/ca-bundle.crt
inflating: owncloud/resources/config/readme.md
inflating: owncloud/resources/config/mimetypesmapping.dist.json
creating: owncloud/resources/codesigning/
inflating: owncloud/resources/codesigning/intermediate.crl.pem
inflating: owncloud/resources/codesigning/root.crt
inflating: owncloud/resources/codesigning/core.crt
inflating: owncloud/COPYING
inflating: owncloud/index.php
inflating: owncloud/CHANGELOG.md
inflating: owncloud/status.php
[root@localhost html]#
```

- Next, grant Apache read and write permissions to the new directory with the apache user account.

```
[root@localhost html]# sudo chown -R apache.apache owncloud/
```

- Now, edit the default Apache main configuration file, httpd.conf, and change the server name and the root web server directory.

```
[root@localhost html]# sudo vi /etc/httpd/conf.d/httpd.conf
[root@localhost html]#
```

- Open the file,
- Set your server's domain name, replace cloud.example.com with your actual domain name.
- Now, change the root web server directory to /var/www/html/owncloud/

```
ServerName cloud.example.com
DocumentRoot /var/www/html/owncloud
```

- With changes made to Apache configuration files, we need to restart the web server for changes to take effect.

```
[root@localhost html]# sudo service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@localhost html]#
```



