

Installing Collabora CODE On Ubuntu 16.04

Supported Distros

- This instruction is only for Ubuntu 16.04. Docker container running on a Ubuntu 14.04 host is not supported.

1. Install docker container from Linux repository packages.

```
sudo apt update
sudo apt install docker.io
```

2. Check the status of Docker

```
sudo systemctl status docker
```

3. If it's not running, start Docker

```
sudo systemctl start docker
```

4. Download the CODE Docker image

```
sudo docker pull collabora/code
```

5. Start the CODE docker container

```
sudo docker run -t -d -p 127.0.0.1:9980:9980 -e 'domain=your\\.filecloud-domain\\.com' --restart always
--cap-add MKNOD collabora/code
```

6. Check the connections are accepted on port 9980

```
sudo netstat -lnpt
```

7. Check and confirm hosting discovery is accessible on localhost and port 9980

```
sudo curl -k https://127.0.0.1:9980/hosting/discovery
```

Setup Apache Reverse Proxy for your Collabora URL

8. Install Apache and necessary modules

```
sudo apt install apache2
sudo a2enmod proxy
sudo a2enmod proxy_wstunnel
sudo a2enmod proxy_http
sudo a2enmod ssl
```

9. Create a file `/etc/apache2/sites-available/your.collabora-domain.com.conf` (use a name derived from your own URL here) with following lines:

```
<VirtualHost *:80>
ServerName your.collabora-domain.com
</VirtualHost>
```

10. Create a file `/etc/apache2/sites-available/your.collabora-domain.com-ssl.conf` with following lines:

 **Note**

- You will need SSL certificate for the domain you will running CODE server on and the associated private key for this step.
- Place the certificate in the path `/etc/apache2/ssl/server.crt`
- Place the key in the path `/etc/apache2/ssl/server.key`

```
<IfModule mod_ssl.c>
<VirtualHost *:443>
  ServerName your.collabora-domain.com

  SSLCertificateFile /etc/apache2/ssl/server.crt
  SSLCertificateKeyFile /etc/apache2/ssl/server.key

  # Encoded slashes need to be allowed
  AllowEncodedSlashes NoDecode

  # Container uses a unique non-signed certificate
  SSLProxyEngine On
  SSLProxyVerify None
  SSLProxyCheckPeerCN Off
  SSLProxyCheckPeerName Off

  # keep the host
  ProxyPreserveHost On

  # static html, js, images, etc. served from loolwsd
  # loleaflet is the client part of LibreOffice Online
  ProxyPass /loleaflet https://127.0.0.1:9980/loleaflet retry=0
  ProxyPassReverse /loleaflet https://127.0.0.1:9980/loleaflet

  # WOPI discovery URL
  ProxyPass /hosting/discovery https://127.0.0.1:9980/hosting/discovery retry=0
  ProxyPassReverse /hosting/discovery https://127.0.0.1:9980/hosting/discovery

  # Main websocket
  ProxyPassMatch "/lool/(.*)/ws$" wss://127.0.0.1:9980/lool/$1/ws nocanon

  # Admin Console websocket
  ProxyPass /lool/adminws wss://127.0.0.1:9980/lool/adminws

  # Download as, Fullscreen presentation and Image upload operations
  ProxyPass /lool https://127.0.0.1:9980/lool
  ProxyPassReverse /lool https://127.0.0.1:9980/lool

</VirtualHost>
</IfModule>
```

11. Enables sites configured from above steps

```
sudo a2ensite your.collabora-domain.com
sudo a2ensite your.collabora-domain-ssl.com
```

12. Restart Apache after the changes made

```
sudo service apache2 restart
```

13. Check and confirm if your Collabora Hosting Discovery URL is accessible

```
sudo curl -k https://your.collabora-domain.com/hosting/discovery
```