

# Basic installation with Jetty and H2 Database

## Install Required Software

```
#install a lot of stuff
sudo apt update
sudo apt install tesseract-ocr tesseract-ocr-deu tesseract-ocr-eng libtesseract-dev ffmpeg
mediainfo mediainfo-gui openjdk-11-jdk

#install Jetty Web Server
sudo apt install jetty11

#check versions
ffmpeg -version
tesseract -v
mediainfo --version
dpkg -l | grep jetty11
dpkg -l | grep jdk
```

You can also install jetty manually (not by `apt`) with ease and full control:

```
cd /opt
wget https://repo1.maven.org/maven2/org/eclipse/jetty/jetty-home/11.0.15/jetty-home-11.0.15.tar.gz
tar -xvzf jetty-home-11.0.15.tar.gz
mkdir -p /opt/jetty-home-11.0.15/jetty-base/
cd /opt/jetty-home-11.0.15/jetty-base/
java -jar ../start.jar --add-modules=deploy,http
cp /opt/teedy/docs-web/target/docs-web-1.*.war /opt/jetty-home-11.0.15/jetty-base/webapps/dms.war #copy the compiled deployment war to target dir
chown jetty:adm /opt/jetty-home-11.0.15/jetty-base/webapps/dms.war
chown jetty:adm /opt/jetty-home-11.0.15/jetty-base/webapps/dms.xml
```

## Create dms.xml configuration files

This allows to change the default docs home dir and other things. Have a look at

<https://github.com/sismics/docs/blob/master/docs.xml>

```
vim /opt/jetty-home-11.0.15/jetty-base/webapps/dms.xml
```

```
<?xml version="1.0"?>
<!DOCTYPE Configure PUBLIC "-//Jetty//Configure//EN"
"http://www.eclipse.org/jetty/configure_10_0.dtd">
<Configure class="org.eclipse.jetty.webapp.WebAppContext">
  <Set name="contextPath">/dms</Set>
  <Set name="war"><SystemProperty name="jetty.data" default="."/>/webapps/dms.war</Set>
  <Call class="java.lang.System" name="setProperty">
    <Arg>docs.home</Arg>
    <Arg>/var/docs</Arg>
  </Call>
</Configure>
```

Adjust the following lines according to your configured XML argument `docs.home` (if changed)

```
mkdir -p /var/docs/
chmod -T 770 /var/docs/
chown -R jetty:jetty /var/docs/
```

Take the pre-built `dms.war` file or [compile on your own](#) and put it to `/opt/jetty-home-11.0.15/jetty-base/webapps/dms.war`

## Tuning

Raise the heap space `Xmx` to prevent "java heap space error" - this often occurs when OCR'ing a lot of files or uploading multiple files at once. This causes to restart jetty9 completely

```
sudo vim /lib/systemd/system/jetty11.service
```

```
Environment="JAVA_OPTS=-Xms1024m -Xmx3584m -Djava.awt.headless=true"
```

See also [Environment Configuration](#) for reference

## JDK/JRE - Permissions Policy Adjustments (optional)

that might be dangerous / unsecure

```
sudo vim /usr/lib/jvm/java-11-openjdk-amd64/lib/security/default.policy
```

Add to top of file:

```
grant {  
    permission java.security.AllPermission "", "";  
};
```

## Fix jetty read-only filesystem (since Jetty 9.4.15)

Sympton → "Caused by: [java.io.FileNotFoundException](#): /var/docs/db/docs.trace.db (file system is readonly - but it is not!)"

The newest jetty package was changed to contain restricted settings in `/lib/systemd/system/jetty9.service`. You need to add another `ReadWritePath` for the `/var/docs` directory

```
sudo vim /lib/systemd/system/jetty11.service
```

```
ProtectSystem=strict  
ReadWritePaths=/var/lib/jetty11  
ReadWritePaths=/var/docs/
```

## Restart Jetty Service

```
sudo systemctl restart jetty11.service
```

## Check the logs

```
sudo less /var/log/jetty11/  
sudo journalctl -f -u jetty11
```

## Access to Teedy Web Interface

<https://YOURHOST:8080>

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Version #2

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