

Install TS indexing service

Install war file

```
cd /usr/share/tomcat7/webapps/  
sudo wget https://www.tempusserva.dk/install/tsFileIndexingService.war
```

A couple of seconds later you can configure the data connection and paths for OCR libraries

```
sudo nano /usr/share/tomcat7/conf/Catalina/localhost/tsFileIndexingService.xml
```

(or depending on Linux distribution)

```
sudo nano /etc/tomcat7/Catalina/localhost/tsFileIndexingService.xml
```

Example configurations can be seen below

Restart server after changes

```
tstomcatrestart
```

Windows example configuration

```
<?xml version="1.0" encoding="UTF-8"?>  
<Context antiJARLocking="true" path="/tsFileIndexingService">  
  
  <Resource name="jdbc/TempusServaLive" auth="Container" type="javax.sql.DataSource"  
    maxActive="80" maxIdle="30" maxWait="2000"  
    removeAbandoned="true" removeAbandonedTimeout="60" logAbandoned="true"  
    validationQuery="SELECT 1" validationInterval="30000" testOnBorrow="true"  
    username="root" password="TempusServaFTW!" driverClassName="com.mysql.jdbc.Driver"  
    url="jdbc:mysql://localhost:3306/tslive?autoReconnect=true"  
  />  
  <Parameter name="ExecutableImageMagick" value="c:\ImageMagick\convert"/>  
  <Parameter name="ExecutableGhostscript" value="c:\Program Files\gs\gs9.20\bin\gswin64c.exe"/>  
  <Parameter name="ExecutableTesseract" value="c:\Program Files (x86)\Tesseract-OCR\tesseract"/>  
  <Parameter name="LanguagesTesseract" value="eng+dan"/>  
  <Parameter name="ElasticServerAddress" value="localhost"/>  
</Context>
```

Linux example configuration

```
<?xml version="1.0" encoding="UTF-8"?>  
<Context antiJARLocking="true" path="/tsFileIndexingService">
```

```
<Resource name="jdbc/TempusServaLive" auth="Container" type="javax.sql.DataSource"
    maxActive="80" maxIdle="30" maxWait="2000"
    removeAbandoned="true" removeAbandonedTimeout="60" logAbandoned="true"
    validationQuery="SELECT 1" validationInterval="30000" testOnBorrow="true"
    username="root" password="TempusServaFTW!" driverClassName="com.mysql.jdbc.Driver"
    url="jdbc:mysql://localhost:3306/tslive?autoReconnect=true"
/>
<Parameter name="ExecutableImageMagick" value="/usr/bin/convert"/>
<Parameter name="ExecutableGhostscript" value="/usr/bin/ghostscript"/>
<Parameter name="ExecutableTesseract" value="/usr/bin/tesseract"/>
<Parameter name="LanguagesTesseract" value="eng+dan"/>
<Parameter name="ElasticServerAddress" value="localhost"/>
</Context>
```

Enable and test indexing in Tempus Serva

Set the following configurations to true

- fulltextIndexData
- fulltextIndexFile

Also add port 8080 to the following URL

- fulltextFileHandlerURL

Update any record in the TS installation

Check the index is created and that there is a mapping for the solution

```
curl 'http://localhost:9200/tempusserva/?pretty'
```

Next validate that records are found when searched for (replace * with a valid string)

```
curl 'http://localhost:9200/tempusserva/_search?pretty&q=*'
```

Finally validate that the Tempus Serva wrapper also works

```
http://<server>/TempusServa/fulltextsearch?subtype=4&term=*
```

Optional OCR components

Some libraries must be installed (ghostscript is probably already installed)

```
sudo yum install ImageMagick
sudo yum install ghostscript
```

Also install tesseract

CentOS/Fedora

```
sudo yum install tesseract-ocr
```

Amazon linux

```
sudo yum --enablerepo=epel --disablerepo=amzn-main install libwebp
sudo yum --enablerepo=epel --disablerepo=amzn-main install tesseract
```

Afterwards change the configurations in the file indexer

```
sudo nano /usr/share/tomcat7/conf/Catalina/localhost/tsFileIndexingService.xml
```

The values should be

- /usr/bin/tesseract
- /usr/bin/convert
- /usr/bin/ghostscript

After changing the values restart the server.

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