Setting up basic search service

Note that the Elastic search server can be installed on a seperate server (neither TS file indexing or the application server is required).

Install: Elastic search server

Elastic search server (version 5) will run standalone and will require Java 8 or higher

1. Download Elastic search zip archieve
2. Unpack files to suitable location
3. Start elastic.bat in /bin folder

```
https://www.elastic.co/downloads/elasticsearch
```

For Linux you can follow the guide in Install with tar

```
wget https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-8.9.1-x86_64.rpm
wget https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-8.9.1-x86_64.rpm.sha512
shasum -a 512 -c elasticsearch-8.9.1-x86_64.rpm.sha512
sudo rpm --install elasticsearch-8.9.1-x86_64.rpm
sudo rpm -e elasticsearch-8.9.1-x86_64.rpm
```

Alternatively use this script

```
sudo rpm --import https://packages.elastic.co/GPG-KEY-elasticsearch
sudo sh -c 'curl https://gist.githubusercontent.com/nl5887/b4a56bfd84501c2b2afb/raw/elasticsearch.repo
>> /etc/yum.repos.d/elasticsearch.repo'
sudo yum install -y elasticsearch
sudo chkconfig elasticsearch on
```

```
sudo nano /etc/elasticsearch/jvm.options
-Xms256m
-Xmx256m
```

```
sudo service elasticsearch start
```

```
curl 'http://localhost:9200/app/_count?pretty&q='y
```

Install: TS file indexing service (TSFIS)

For TSFIS to run yo will need a servlet container (Tomcat,JBoss,Oracle AS).

1. Download tsFileIndexingService.war
2. Dump to webapplication folder on application server
3. Change settings in web.xml
   - Database connection strings: If on same server just copy the seeting from your main application
   - ExecutableGhostscript: Path to Ghostscript (see above)
   - ExecutableTerrasect: Path to Terrasect OCR module (see above)
   - ElasticServerAddress: IP or servername where ElastisSearch is installed (see above)
4. Restart server (to reload DB credentials)
5. Test application at: <server>/tsFileIndexingService/execute

Network configuration

In the event that Elastic search or the file indexer is not on the same server you will need to ensure that

- Open port 3306 fra **TS file indexing service** to **MySQL database** (normally the application server)
- Open port 2100 fra **TS file indexing service** to **ElasticSearch** server
- Open port 2100 fra **Tempus Serva application** to **ElasticSearch** server

Also remember to update configrations for server names

- Elastic search: elasticsearch.yml file > network.host (add IP or servername)
  - https://www.elastic.co/guide/en/elasticsearch/reference/current/modules-network.html
- TS file indexing service: web.xml > ElasticServerAddress (elastic search server)
- Tempus Serva application: Server policies
  - fulltextFileHandlerURL (file indexing server)
  - fulltextElasticBaseURL (elastic search server)

Multi application setup

1. Setup a shared table for **lucenefilequeue** using views
   - Delete the lucenefilequeue table in all slave databases

    - Create a view of lucenefilequeue pointing to the master database
2. **TS file indexing service** must have a user with access to all TS databases

Multiple instances will have a shard each in the Elastic index

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