# Setting Up Jena Fuseki with Update in Windows 10



A documentation, just let me know if something is missing from the following steps.

First thing to do is, download Apache Jena Fuseki from: <a href="https://jena.apache.org/download/index.cgi">https://jena.apache.org/download/index.cgi</a>

I am using Fuseki 2 from apache-jena-fuseki-3.9.0.zip.

Now, unzip your downloaded file.

Name	Date modified	Туре	Size
B bin	28/09/2018 18:31	File folder	
webapp	28/09/2018 18:15	File folder	
fuseki	28/09/2018 18:15	File	13 KB
fuseki.service	28/09/2018 18:15	SERVICE File	3 KB
fuseki.war	28/09/2018 18:30	WAR File	22.762 KB
fuseki-backup	28/09/2018 18:15	File	2 KB
fuseki-server	28/09/2018 18:15	File	3 KB
fuseki-server.bat	28/09/2018 18:15	Windows Batch File	2 KB
🕌 fuseki-server.jar	28/09/2018 18:31	Executable Jar File	25.444 KB
LICENSE	28/09/2018 18:15	File	30 KB
NOTICE	28/09/2018 18:15	File	10 KB
README	28/09/2018 18:15	File	3 KB

Unzipped Fuseki

Create a folder named data.

Open a command prompt and check out Fuseki help, by typing the following command:

fuseki-server --help

```
-config=FILE] [--mem|--desc=AssemblerFile|--file=FILE] [--port PORT] /DatasetPathName
Fuseki
                           Assembler description file
    --desc=
    --mem
                           Create an in-memory, non-persistent dataset for the server
    --file=FILE
                           Create an in-memory, non-persistent dataset for the server, initialised
the file
    --tdb2
                           Create command line persistent datasets with TDB2
    --loc=DIR
                           Use an existing TD8 database (or create if does not exist)
    --memTDB
                           Create an in-memory, non-persistent dataset using TDB (testing only)
                           Listen on this port number
    --port
    --localhost
                           Listen only on the localhost interface
                           Global timeout applied to queries (value in ms) -- format is X[,Y]
    --timeout=
                           Allow updates (via SPARQL Update and SPARQL HTTP Update)
    --update
    --config=
                           Use a configuration file to determine the services
    --jetty-config=FILE
                           Set up the server (not services) with a Jetty XML file
    --gzip=on|off
                           Enable GZip compression (HTTP Accept-Encoding) if request header set
Symbol definition
                           Set a configuration symbol to a value
    --set
General
         --verbose
                           Verbose
    -V
        --quiet
                           Run with minimal output
    --debug
                           Output information for debugging
    --help
                           Version information
    --version
                           Operate in strict SPARQL mode (no extensions of any kind)
    --strict
```

Fuseki help

Get familiarize with all the commands. Then, run the following command to start the Fuseki server.

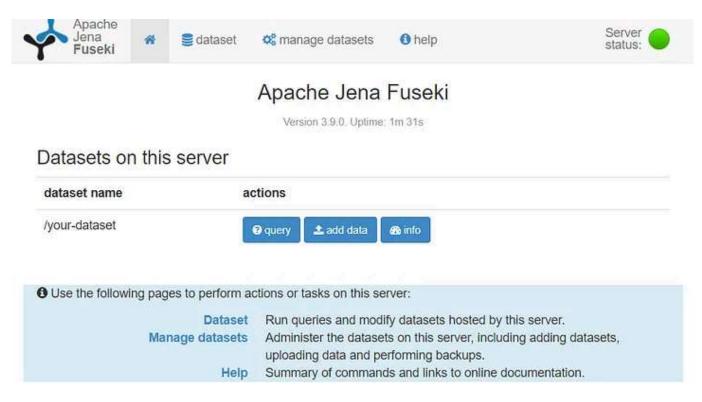
```
fuseki-server --loc=data --update /your-dataset
```

The location (loc) is to store your RDF data and can be set up to any other path. The /your-dataset part is the dataset name, and you can rename it to whatever suits you. By default, port 3030 will be used by the Fuseki server.

```
Running in read-only mode for /your-dataset
2018-12-10 00:08:50] Server
                                INFO
2018-12-10 00:08:51] Server
                                INFO
                                      Apache Jena Fuseki 3.9.0
2018-12-10 00:08:52] Config
                                INFO
                                      FUSEKI_HOME=C:\Users\Fariz\Documents\apps\apache-j
2018-12-10 00:08:52] Config
                                      FUSEKI BASE=C:\Users\Fariz\Documents\apps\apache--
                                INFO
2018-12-10 00:08:52] Config
                                INFO
                                      Shiro file: file://C:\Users\Fariz\Documents\apps\a
o.ini
2018-12-10 00:08:54] Config
                                INFO
                                      Template file: templates/config-tdb-dir
2018-12-10 00:08:54] Config
                                INFO
                                      TDB dataset: directory=data
2018-12-10 00:08:57] Config
                                INFO
                                      Register: /your-dataset
2018-12-10 00:08:57] Server
                                INFO
                                      Started 2018/12/10 00:08:57 ICT on port 3030
```

Running Fuseki

#### This is how Fuseki UI looks like.



Fuseki Ul

Try to query your data (obviously, the result will be empty though since no data has been uploaded). Go to the following address: <a href="http://localhost:3030/dataset.html?tab=info&ds=/your-dataset">http://localhost:3030/dataset.html?tab=info&ds=/your-dataset</a>

(Sign up)

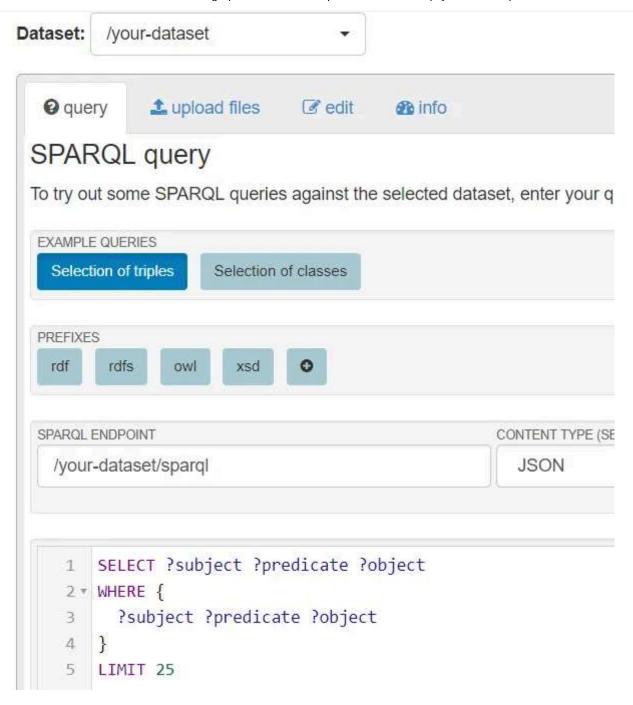
Sign in











Get at most 25 triples of whatever S-P-O

The next step is to upload your data, using HTTP SPARQL Update. This can be done from the following HTML form (save it as fuseki-post.html).

```
<form action="http://localhost:3030/your-dataset/update"
method="post">
    <fieldset>
        <legend>Fuseki SPARQL Update</legend>
        <textarea name="update" rows="10" cols="30">Put your SPARQL
```

```
update query here...</textarea><br>
     <input type="submit" value="Submit">
     </fieldset>
</form>
```

Then, open your fuseki-post.html using any Web browser. Edit the text area with the following SPARQL Update query.

Click Submit, and you should see the success message.

## Success

## Update succeeded

If you see this, this means your SPARQL update updates:)

Run the SPARQL query as shown above (the one with LIMIT 25).



Query results containing the SPARQL updates

Great, you have now successfully set up Jena Fuseki for SPARQL Update.

#enjoy

### References:

- https://jena.apache.org/documentation/fuseki2/
- https://www.w3.org/TR/sparql11-update/
- https://www.slideshare.net/fadirra/semantic-web-intro-040411



