

Linked-Data Installation and Execution

The linked-data interface is designed to deliver on an existing RDF triples into a graph. There is a sample data set provided, details below. There are some configurations currently required, as this is 1.0 release of the interface.

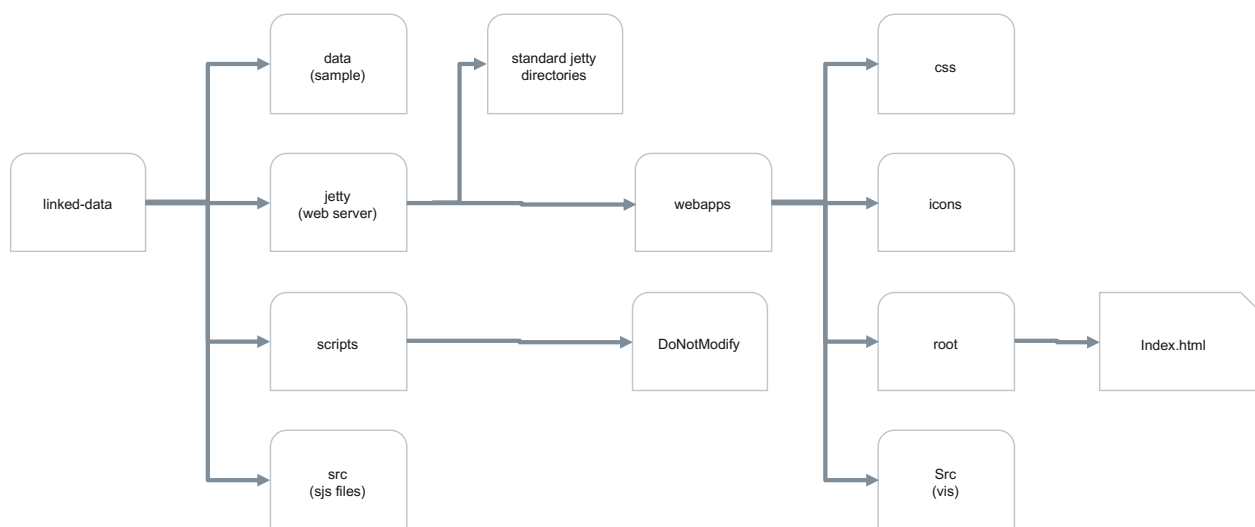
Advantages:

- Package works without external access
- Doesn't require a knowledge of the data/sparql
- Easy install and configuration

Disadvantages:

- Not source control managed
- Errors/omissions not in a structured resolution process
- Linked graph doesn't render consistently
- Little error checking on creation

Structure:



To install:

- Download or otherwise acquire linked-data-REV.zip
- Unzip the zip file
- Navigate to linked-data/scripts
- Run installLD.sh (./installLD.sh)

Will prompt you for:

- Host name
- Host port (assure the port is available and network security is cleared)
- MarkLogic group name (app server) is available
- MarkLogic database name (often database-name-content)
- MarkLogic modules database name (often database-name-modules)
- Web server port number, like host port, assure it is available
- Launch web server on configuration completion
- Create the database instance
- Insert sample data

Answer question and the install will start. You will be prompt for the admin user name and password – these are not saved anywhere except the MarkLogic server.

If you decided to not start the web server immediately, you will need to navigate to linked-data/scripts and launch `./startJetty.sh` when you are ready.

If you selected to load sample data, you will be prompt for which data set to load. Currently there are 2 samples, an airplane and an automobile. If you look at the data file structure, you can easily create another one.

Launch a browser and then point to the host name and port that you configured the web server for and you will be presented with the linked-data default page. Press the magnifier icon and you will be prompt for a user login and password. Use the host user name and password of your id. The sample data does not add any additional security parameters, so any user who has default access, should be able to see the data.

On the home page, interactions include:

Maximum Results defaults to 50. Results are limited as the linked-data graph can have way too many nodes to be valuable. The SPARQL sent is simple currently, does a non-prefixed select from the data (will be modified in a future release.)

Arrows: toggles arrow on or off on the visualization

Physic: toggles physics on or off on the visualization

Search: MarkLogic search criteria box – any viable MarkLogic search parameter set is available. Using the default airplane data, enter plane and search. Enter plane AND wing, then search. Enter plane OR wing, then search.