Publishing Linked Data

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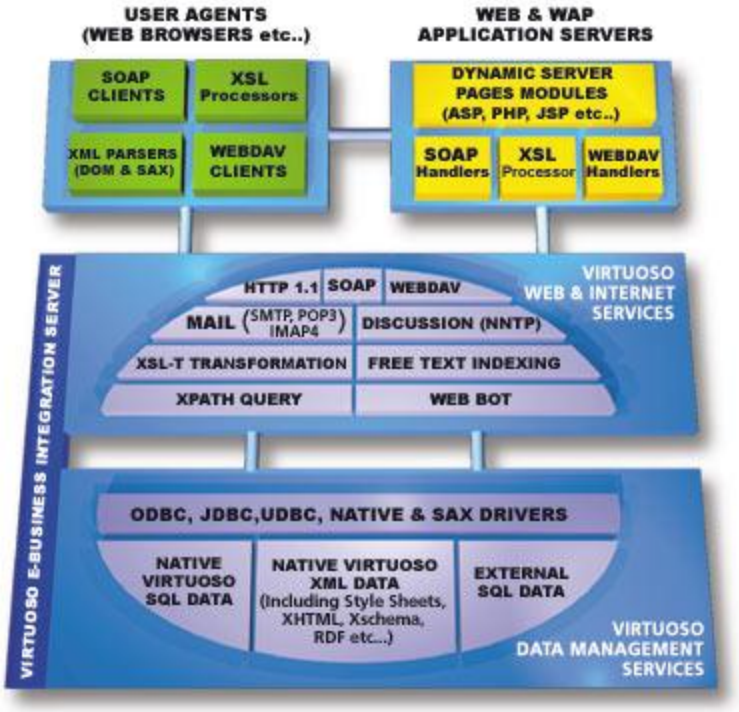
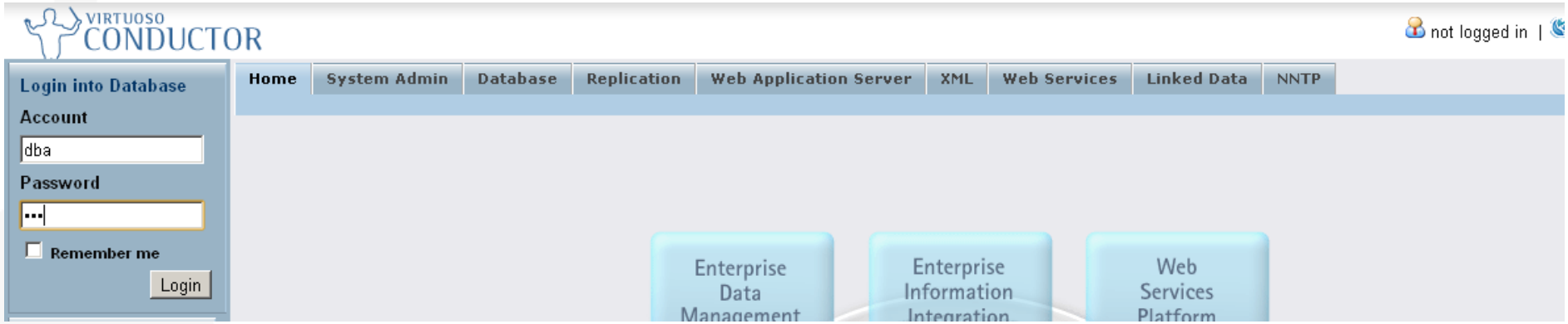
- Download site: http://download.openlinksw.com/virtwiz/virtuoso.php

- Virtuoso documentation: http://docs.openlinksw.com/virtuoso/
  - Installation guide: http://docs.openlinksw.com/virtuoso/installation.html



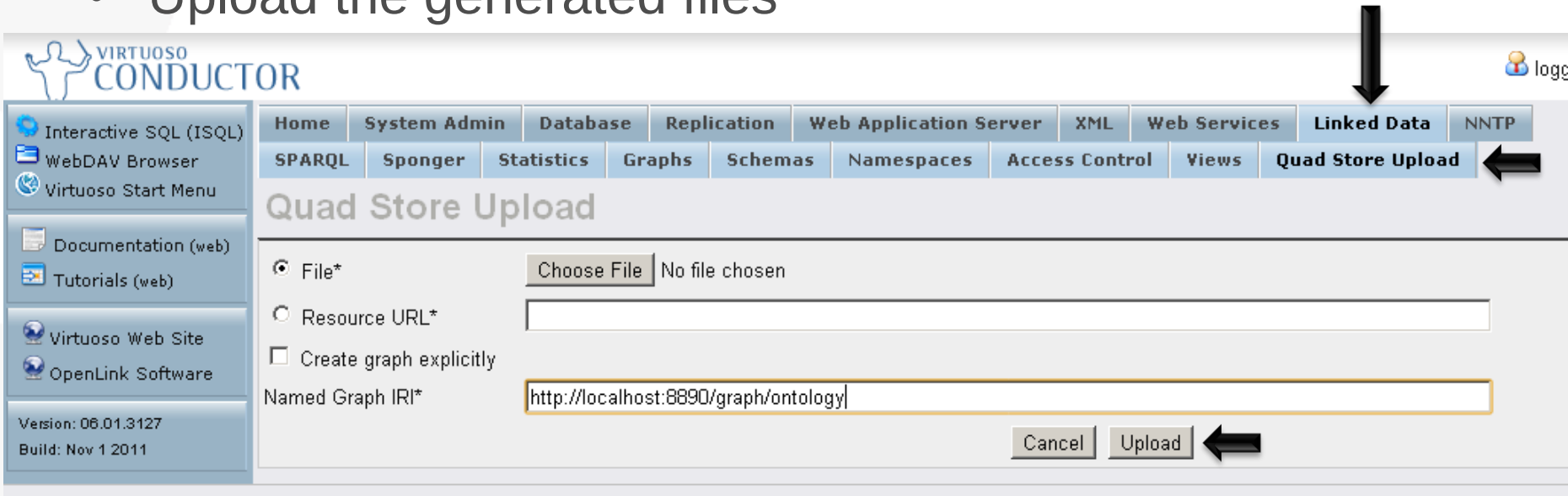
Virtuoso - Conductor

- http://localhost:8890/conductor



Virtuoso - Conductor

- Upload the generated files



- Ontology: http://research.ull.es/graph/ontology - research.owl
- Dataset: http://research.ull.es/graph/dataset - research.rdf
- Links: http://research.ull.es/graph/links - output.nt

Virtuoso endpoint

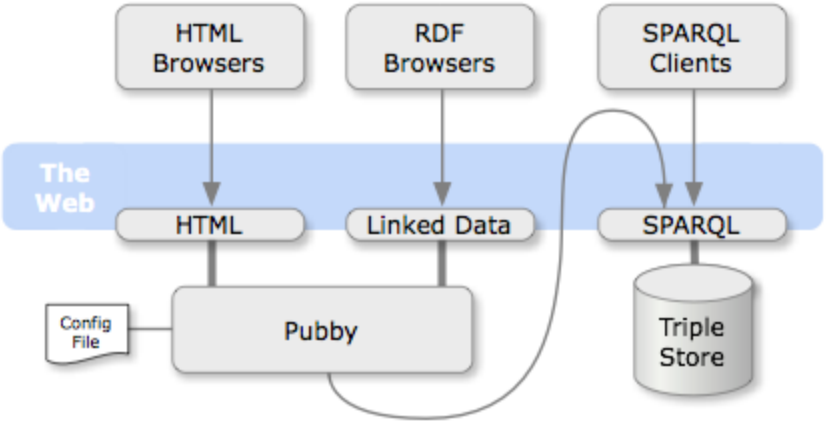
- http://localhost:8890/sparql

Virtuoso endpoint

- Now you can play a bit with SPARQL … ;)

Pubby

- Official site: http://wifo5-03.informatik.uni-mannheim.de/pubby/
- To add **Linked Data interfaces** to SPARQL endpoints
- **Dereferenceable URIs**: accessible in a Semantic Web browser
- Simple HTML interface
- Compatible with Tomcat and Jetty servlet containers



Pubby

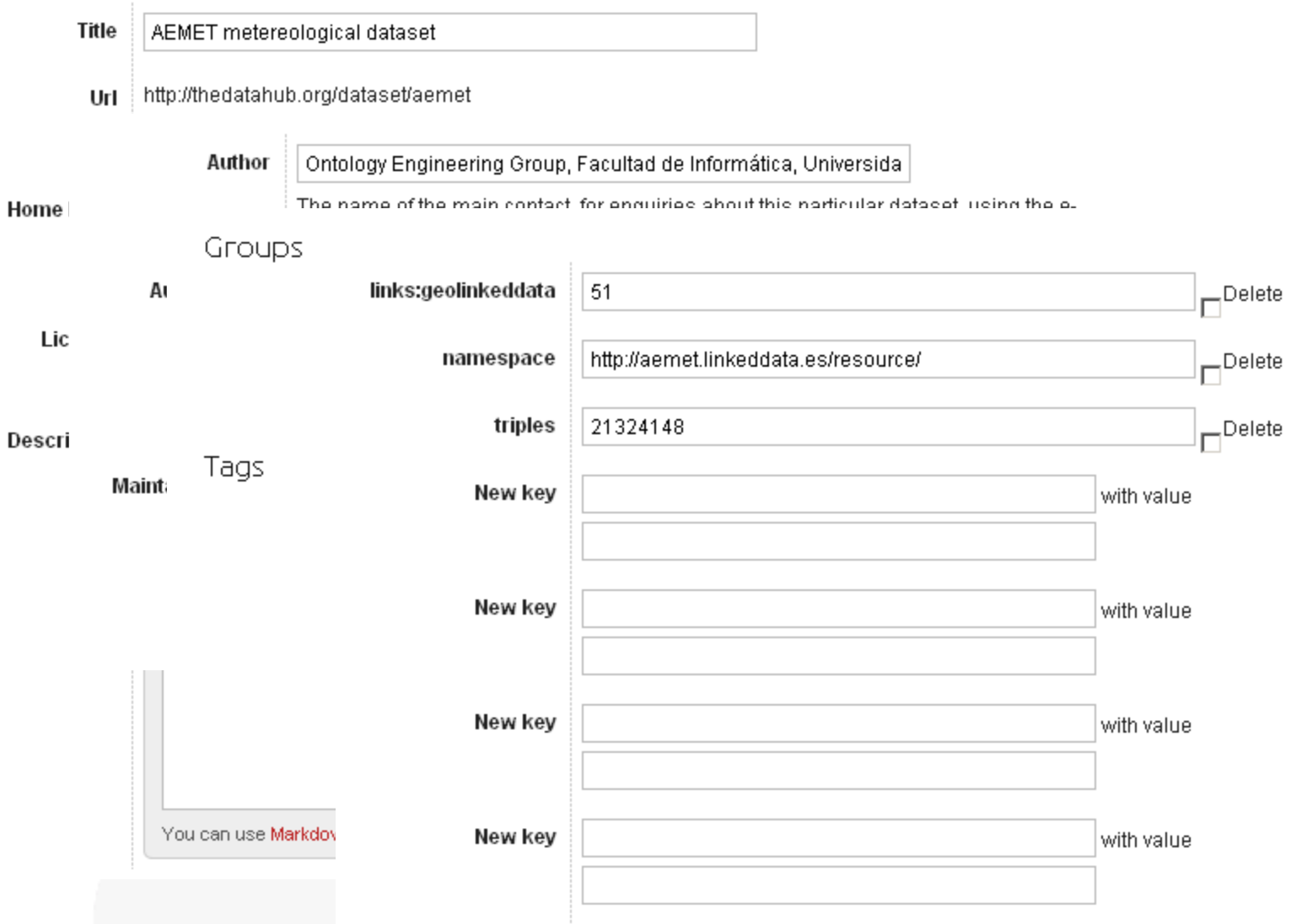
- Steps:
  - Download Pubby
  - Add Pubby as a webapp in Apache Tomcat
  - Configure Apache to redirect the URIs to Pubby
  - Configure Pubby
  - Make sure your RDF has the right URIs (dereferenceables)
    - Same namespace as the Pubby installation machine
  - Store the RDF in Virtuoso
  - Start Apache and Apache Tomcat
  - Access to a resource through your browser

Metadata publication – VOiD

- VOiD: description of linked datasets
  - void.ttl

```
@prefix void: <http://rdfs.org/ns/void#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
@prefix dcterms: <http://purl.org/dc/terms/> .
@prefix foaf: <http://xmlns.com/foaf/0.1/> .
@prefix wv: <http://vocab.org/waiver/terms/norms> .
@prefix sd: <http://www.w3.org/ns/sparql-service-description#> .
@prefix : <#> .


<> a void:DatasetDescription ;
    dcterms:title "A voiD Description of the ......" ;
    dcterms:creator <http://mayor2.dia.fi.upm.es/oeg-upm/index.php/es/phd/39-bvillazon> ;
    foaf:primaryTopic :ResearchGroupsLaguna .


:ResearchGroupsLaguna rdf:type void:Dataset ;
    foaf:homepage <http://research.ull.es/> ;
    dcterms:title "..." ;
    dcterms:description "..." ;
    void:subset :VoID ;
    void:subset :RGL .


:VoID
    a sd:Graph, void:Dataset ;
    dcterms:title "SD+VoID triples" ;
    void:dataDump <http://mccarthy.dia.fi.upm.es/data/void.ttl> ;
    void:triples 53 .

:RGL
    a sd:Graph, void:Dataset ;
    dcterms:title "..." ;
    dcterms:description "..." ;
```

Metadata Publication – CKAN.net / thedatahub.org



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