



# Publishing Linked Data

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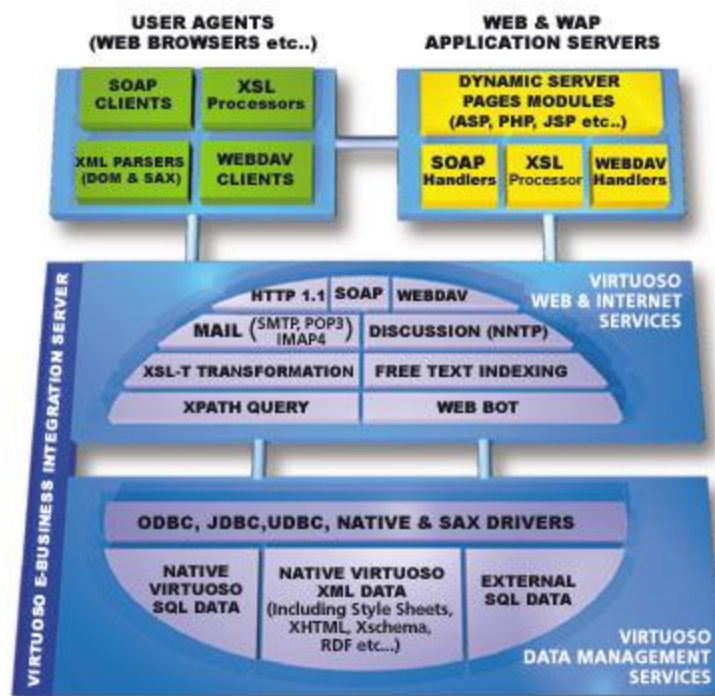
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<http://www.oeg-upm.net>

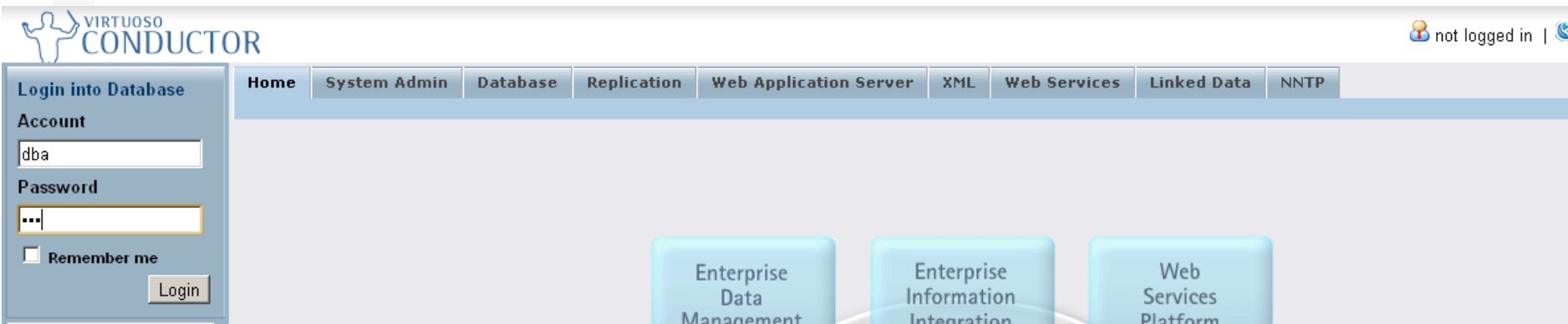
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- Download site: <http://download.openlinksw.com/virtwiz/virtuoso.php>
- Virtuoso documentation: <http://docs.openlinksw.com/virtuoso/>
  - Installation guide: <http://docs.openlinksw.com/virtuoso/installation.html>



- <http://localhost:8890/conductor>



The screenshot displays the Virtuoso Conductor web interface. At the top left is the logo with a stylized figure and the text "VIRTUOSO CONDUCTOR". To the right of the logo, it says "not logged in" with a user icon and a globe icon. Below the logo is a "Login into Database" section with a "Account" field containing "dba", a "Password" field with masked characters "...", a "Remember me" checkbox, and a "Login" button. A horizontal navigation bar contains the following tabs: "Home", "System Admin", "Database", "Replication", "Web Application Server", "XML", "Web Services", "Linked Data", and "NNTP". Below the navigation bar, three large blue buttons are visible: "Enterprise Data Management", "Enterprise Information Integration", and "Web Services Platform".

- Upload the generated files

The screenshot shows the Virtuoso Conductor web interface. The top navigation bar includes tabs for Home, System Admin, Database, Replication, Web Application Server, XML, Web Services, Linked Data, and NNTP. Below this, a secondary bar contains tabs for SPARQL, Sponger, Statistics, Graphs, Schemas, Namespaces, Access Control, Views, and Quad Store Upload. The 'Quad Store Upload' tab is selected. The main content area is titled 'Quad Store Upload' and contains a form with the following elements:

- ☒ File\* with a 'Choose File' button and the text 'No file chosen'.
- ☐ Resource URL\* with an empty text input field.
- ☐ Create graph explicitly.
- Named Graph IRI\* with a text input field containing 'http://localhost:8890/graph/ontology'.
- Buttons for 'Cancel' and 'Upload'.

- 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>

- <http://localhost:8890/sparql>

## Virtuoso SPARQL Query Editor

Default Data Set Name (Graph IRI)

Query Text

```
select distinct ?Concept where { [] a ?Concept } LIMIT 100
```

*(Security restrictions of this server do not allow you to retrieve remote RDF data, see [details](#).)*

Results Format:

Execution timeout:  milliseconds *(values less than 1000 are ignored)*

Options: ☒ Strict checking of void variables

*(The result can only be sent back to browser, not saved on the server, see [details](#))*

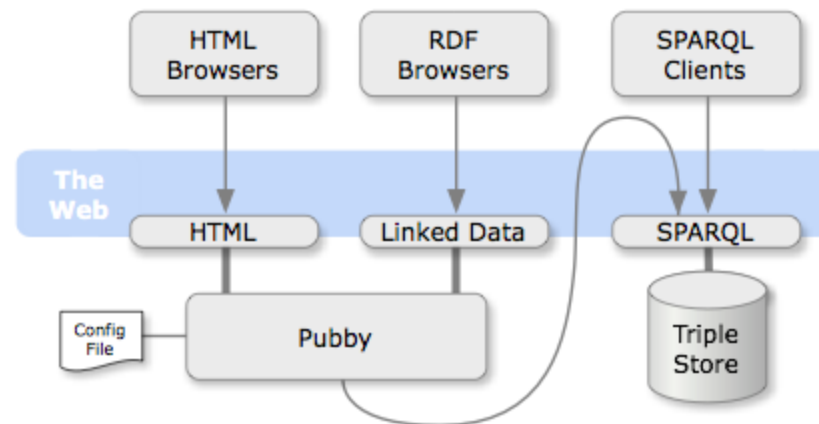


Run Query

Reset

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

- 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



- 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



- 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 ww: <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

**Title**

**Url**

**Author**   
The name of the main contact for enquiries about this particular dataset, using the e-

**Home**

**Groups**

**At** **links:geolinkeddata**  ☐ Delete

**Lic** **namespace**  ☐ Delete

**Descri** **triples**  ☐ Delete

**Maint:** **Tags**

**New key**  with value

**New key**  with value

**New key**  with value

**New key**  with value

You can use [Markdown](#)



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