

HRA – Visual Resources | Tutorial

VRA Core 4 XML Transform Tool – Desktop Installation



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1. Introduction

Besides using the VRA Core XML Transform Tool online at <http://kjc-ws2.kjc.uni-heidelberg.de:8081/exist/apps/csv2xml/index.xq> it is also possible to install it on a personal computer. We created a package that installs all necessary components together with the tool.

2. Prerequisites

We deploy the Transform Tool together with the open-source eXist-db (<http://exist-db.org/>). It runs with **Version 3** (currently Version 3.0. RC1).

You can run the tool with a standard eXist-db installation.

2.1. Supported Systems

You need a standard desktop system running a recent Linux, MacOS, or Windows.

Mobile systems like Android or iOS, or other tablet software are not supported.

2.2. Downloading Java Runtime Environment

To install the tool you will need the free **Java Runtime Environment (JRE)** in **version 1.8 or later**. You can download it from <http://www.oracle.com/technetwork/java/javase/downloads/> or <https://java.com/en/download/>.

2.3. Downloading the installer

The installer is an executable .jar (java archive) file and can be downloaded at: <https://kjc-sv013.kjc.uni-heidelberg.de/downloads/hra/>.

The file will be named by this schema:

"eXist-db-setup-<exist-version>-csv-installer-<transform-tool-version>.jar" with last-modified date, and size.

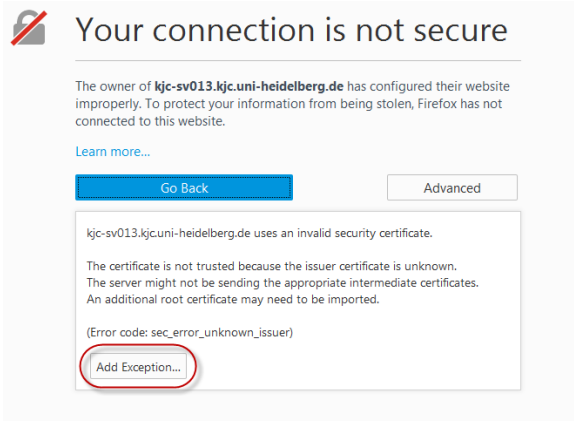
For example:

eXist-db-setup-3.0.RC1-csv-installer-rc1-9049e7d.jar	01-Mar-2016 14:43	133M
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The package will install both, the Transform Tool (currently version 1.0.0) and eXist-db (currently version 3.0 RC1) on your system.

2.3.1. Excursus: Certificate

If your browser shows you a security warning for <https://kjc-sv013.kjc.uni-heidelberg.de/downloads/hra/> you need to **add an exception**.



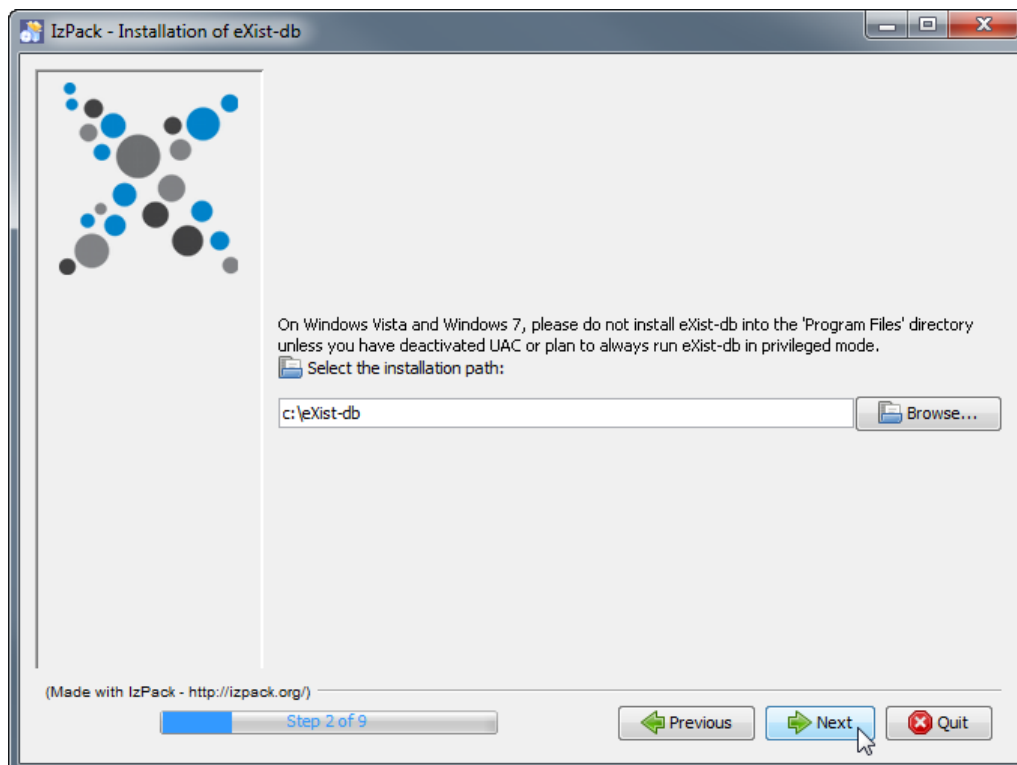


3. Installation

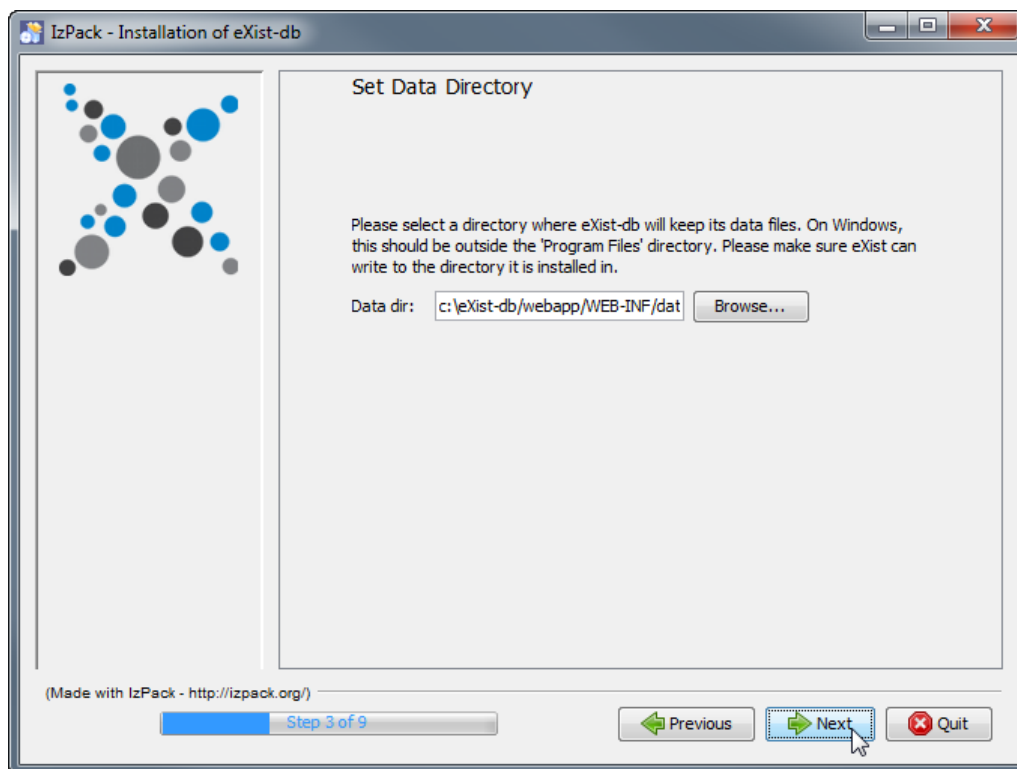
Double-click the installer file. The eXist-db installer opens.



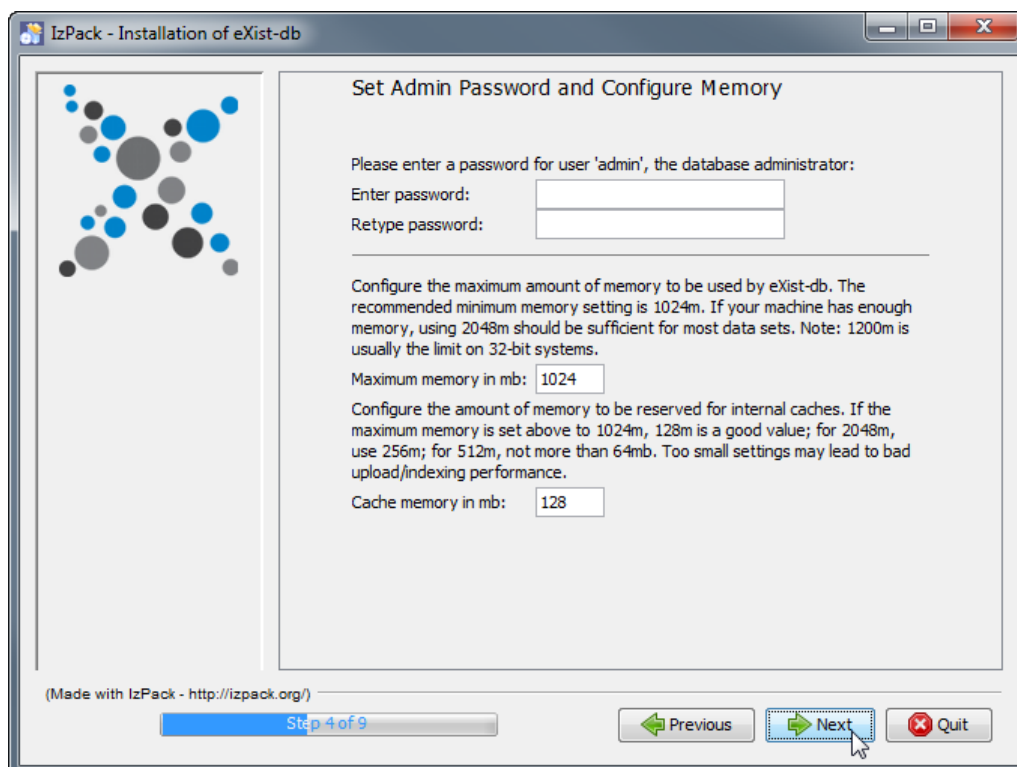
Click "Next".



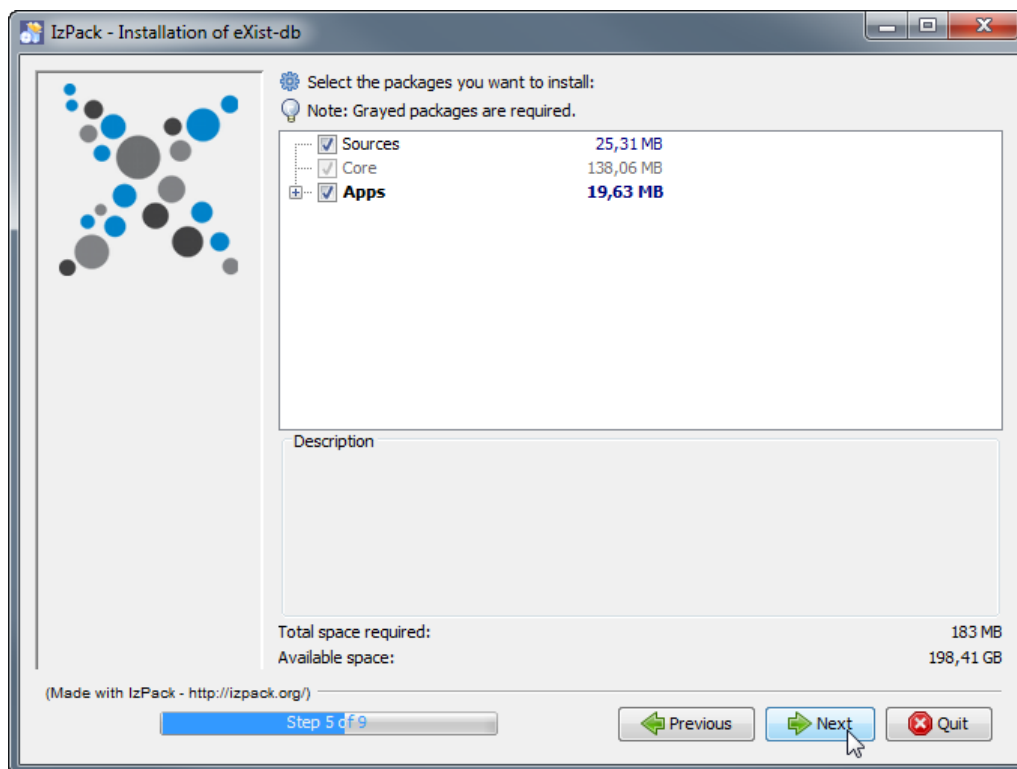
The recommended installation path on Windows is c:\exist-db. Click "Next".



Use the standard data directory. Click "Next".

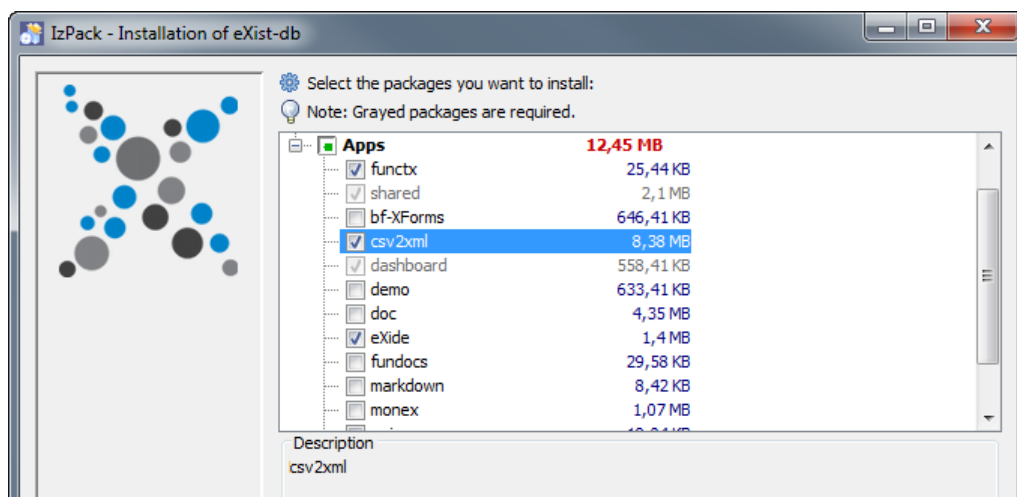


Add an admin password if you wish, or just leave it blank. Click "Next".

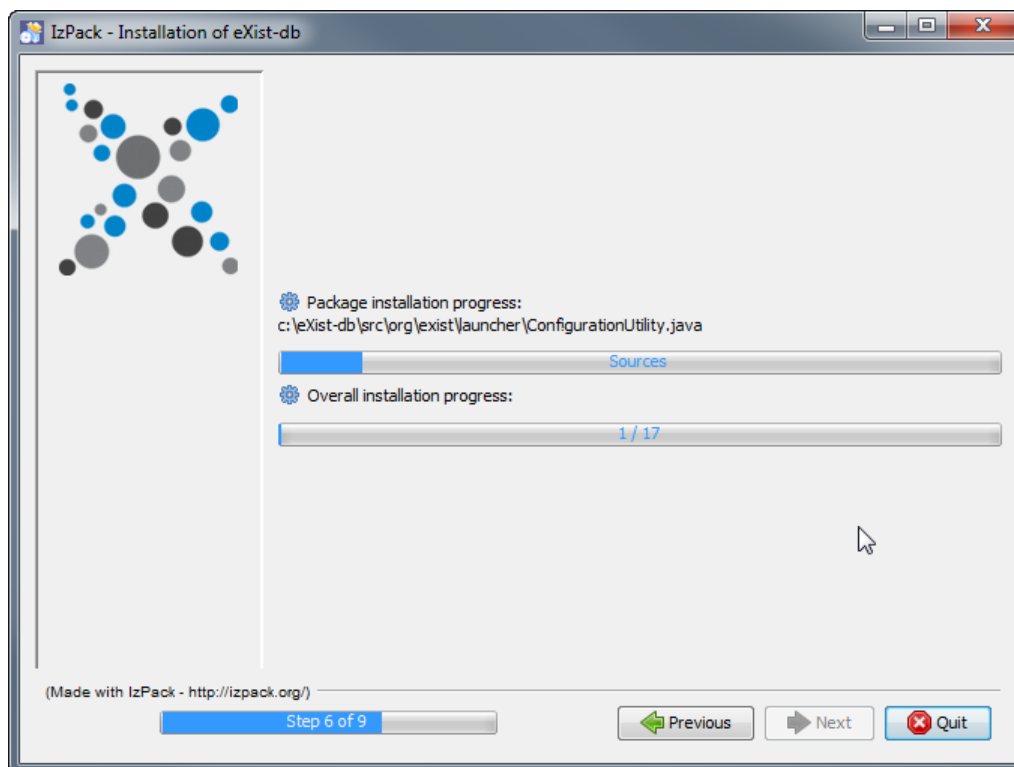


The standard eXist-db installation already includes some application packages. These will only require about 20 MB additional space on your machine. You can just accept the standard list and click "Next".

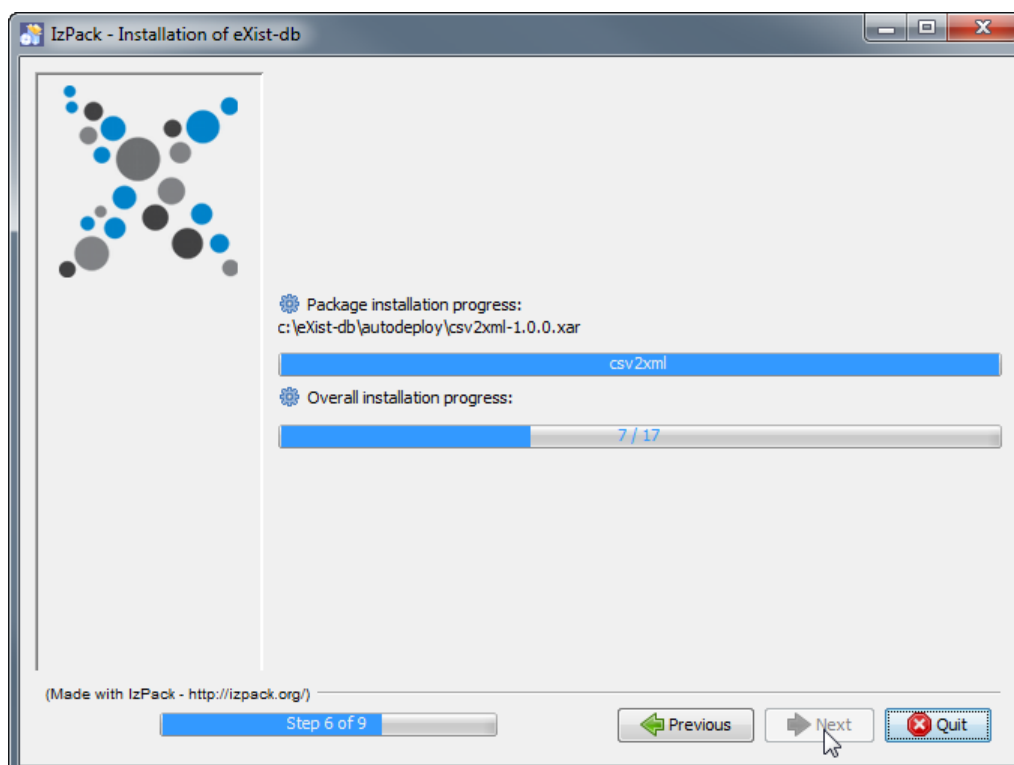
*Alternatively, you can expand the Apps list and disable individual applications. To run the Transform Tool **you need to install csv2xml**, which is the Transform Tool app.*



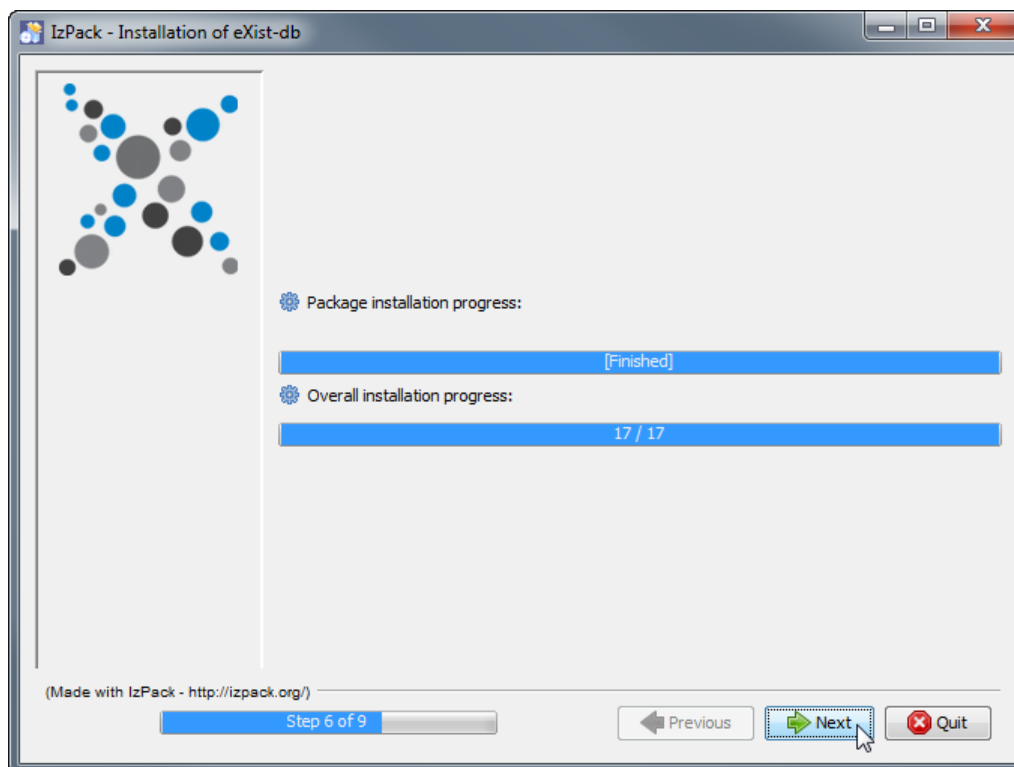
After selecting apps the next step starts the actual installation, which should not take longer than one to two minutes.



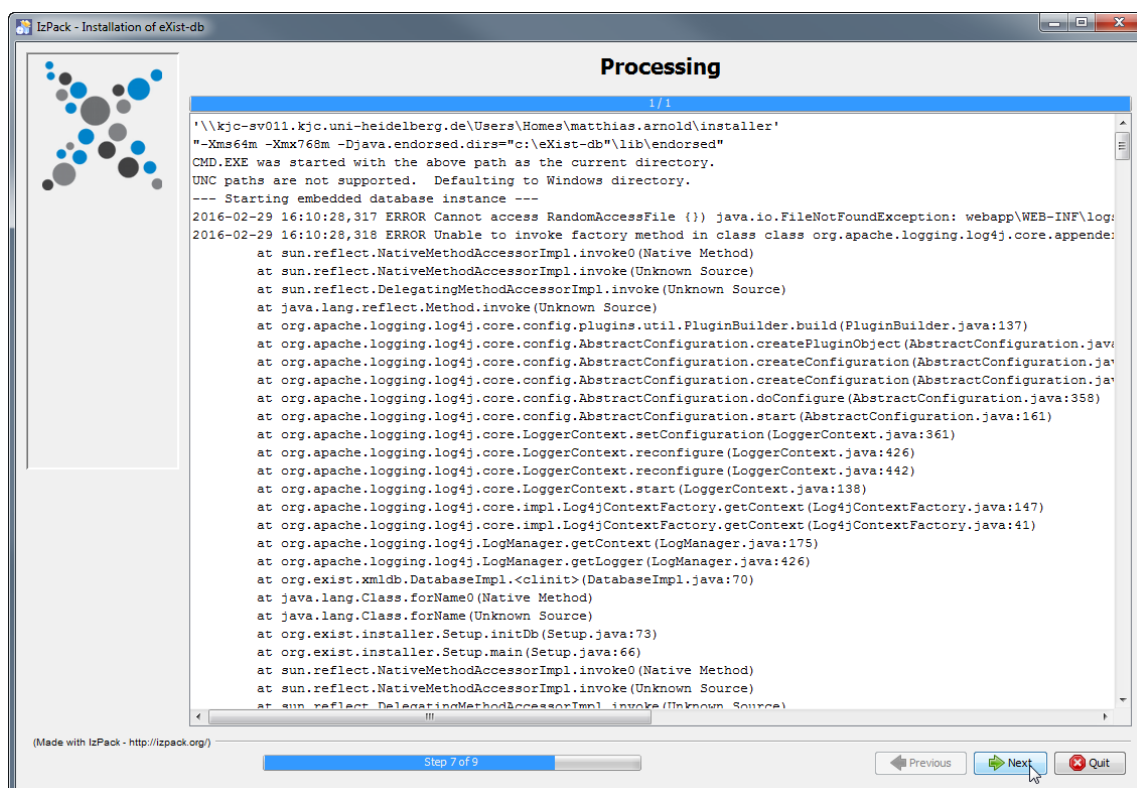
After installation of the database...



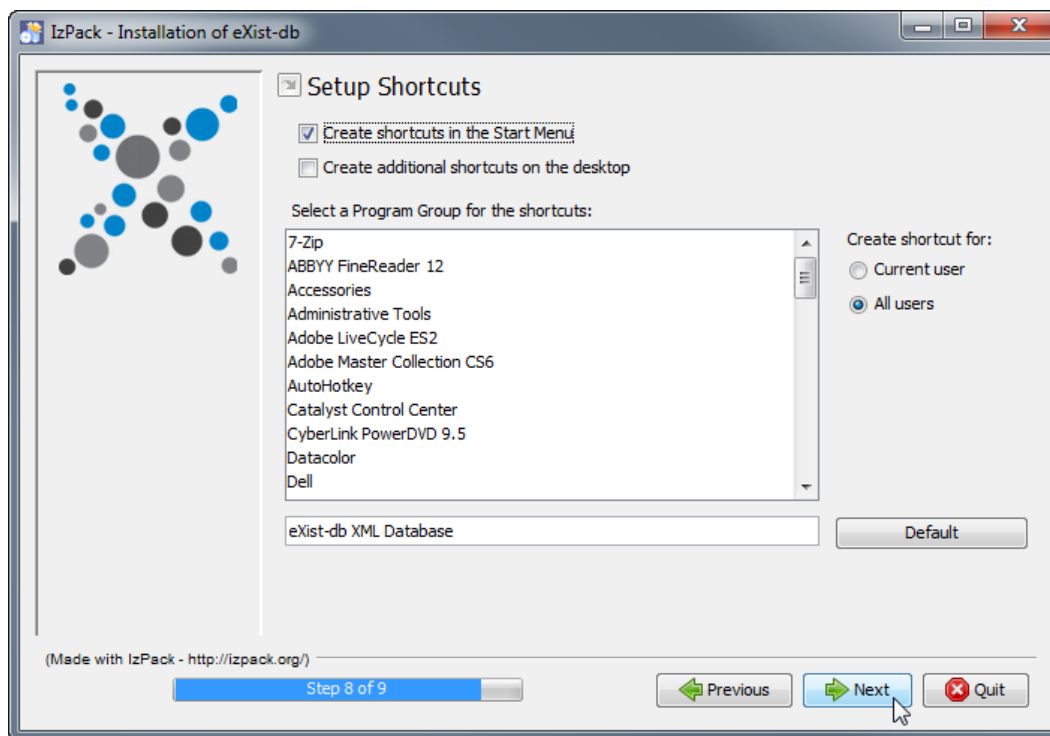
The selected applications are installed.



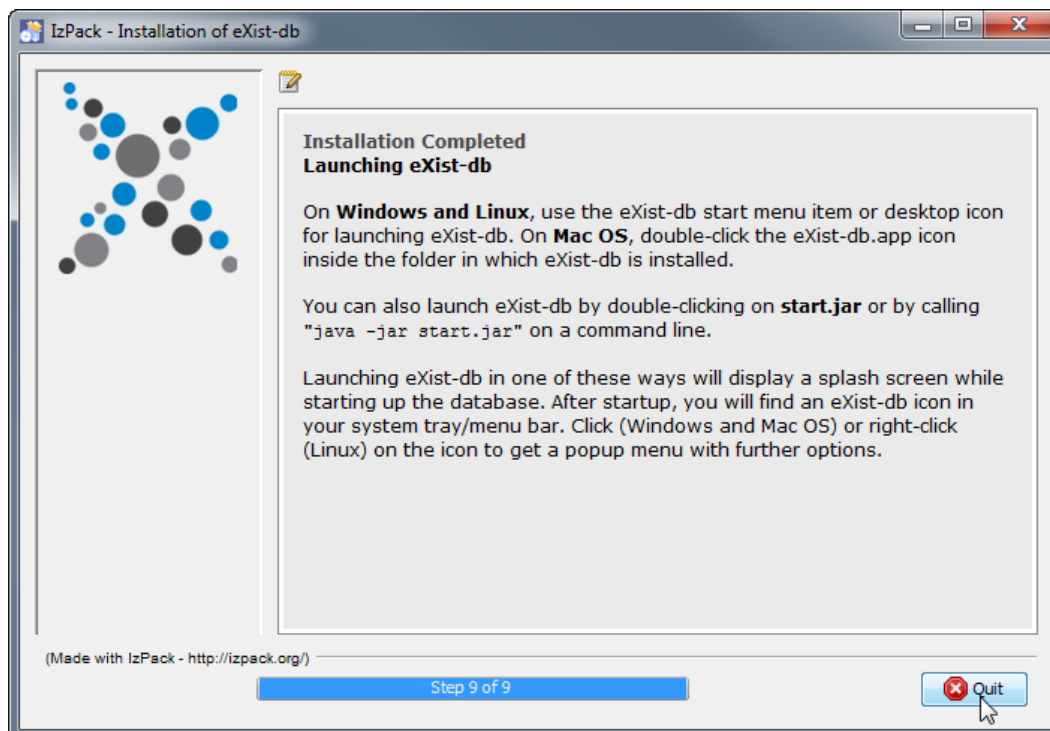
Once this process is finished, click "Next".



The "Processing" will contain a number of messages which usually can be ignored. Click "Next".



Confirm or adjust the shortcut settings, then click "Next".



Congratulations! You have successfully installed eXist-db and the Transform Tool.

Click "Quit" to close the installer.



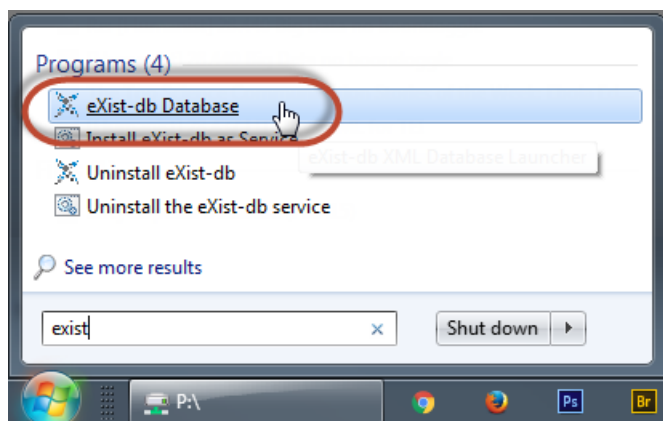
4. Running the Transform Tool

The transform tool is designed for online use. To run it locally, you need a local webserver, which comes with the eXist-db.

4.1. Starting eXist-db

To run the VRA Core 4 XML Transform Tool locally, you first need to start eXist-db.

On your PC, click "Start" and enter "exist" in the search slot.



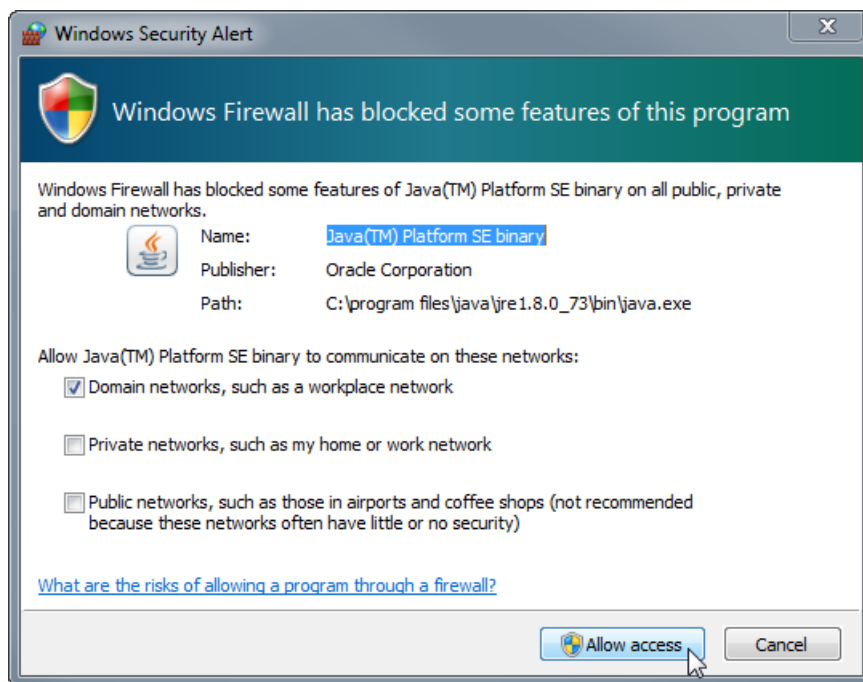
Click the "eXist-db Database" shortcut.



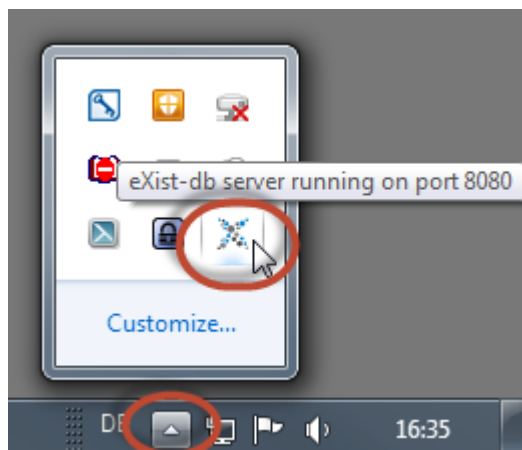
The database starts with a splash screen and initialises.



On first launch, the apps are installed.



If your local firewall shows a security alert, allow access for "java.exe".



After eXist-db has initialized, it will show an icon in the system tray.

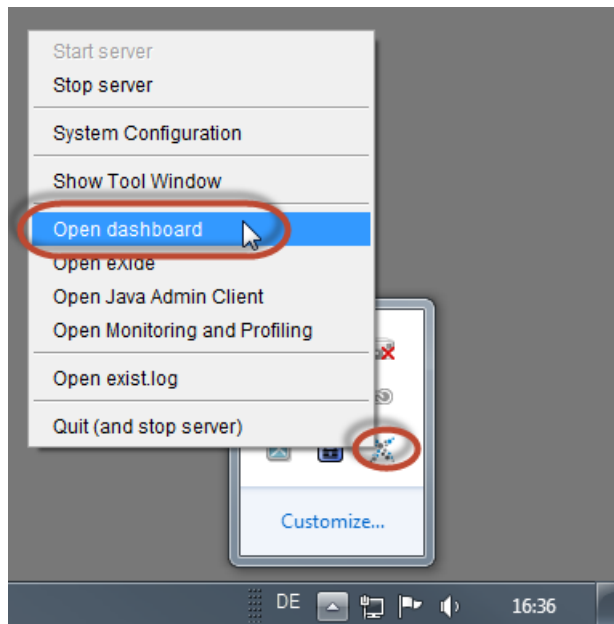


4.2. Starting the Transform Tool

Once eXist-db is running, you can simply open a browser and enter this address:

<http://localhost:8080/exist/apps/csv2xml/index.xq>

Alternatively, go to the system tray icon of eXist-db and right-click on it.

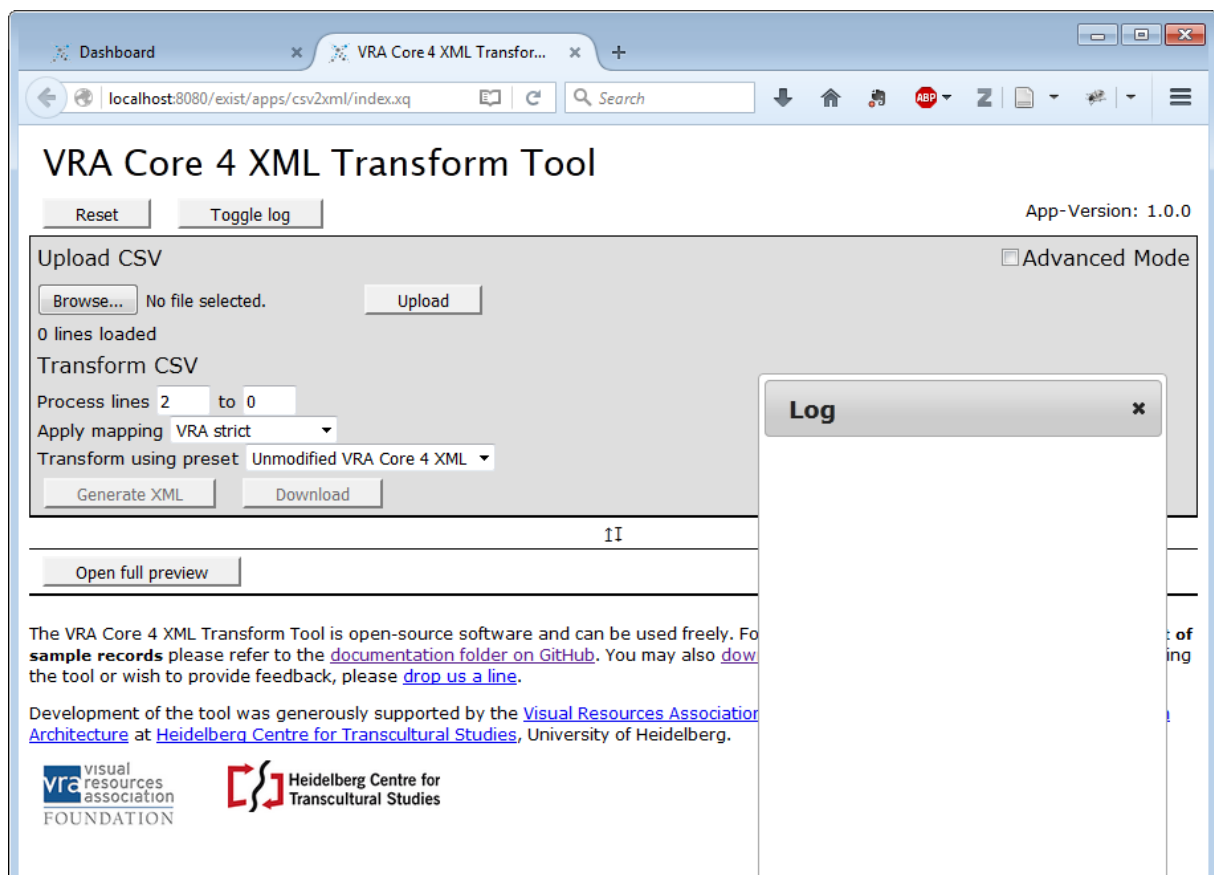


This opens a context menu. Select "Open dashboard".



The “Dashboard” is the central management interface of eXist-db. It functions like a normal website, just without requiring Internet. Note that the web-address starts with “localhost:8080”.

Click the “csv2xml” button to open your local instance of the Transform Tool.



The local instance usually runs at <http://localhost:8080/exist/apps/csv2xml/index.xq>.



Dashboard

VRA Core 4 XML Transform...

localhost:8080/exist/apps/csv2xml/index.xq

Search

Download

Home

ABP

2

Print

Fullscreen

Menu

VRA Core 4 XML Transform Tool

Reset

Toggle log

App-Version: 1.0.0

Upload CSV

Advanced Mode

Browse...

VRACoreSamples.csv

Upload

44 lines loaded

Transform CSV

Process lines to

Apply mapping

Transform using preset

Generate XML

Download

Open full preview

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```
1. <work xmlns="http://www.vraweb.org/vracore4.htm" id="w_1">
2.   <agentSet>
3.     <display>unknown (French architect)</display>
4.     <agent>
5.       <name type="personal" vocab="ULAN" refid="500125235">
6.         <role>architect</role>
7.       </agent>
8.     </agentSet>
9.     <contextSet>
10.      <display>French</display>
11.      <context vocab="AAT" refid="300111188">French</context>
12.    </contextSet>
13.    <dateSet>
14.      <display>begun 1194 (creation); consecrated 1260 (other)</display>
15.      <date type="creation">
16.        <earliestDate>1194</earliestDate>
17.        <latestDate>1194</latestDate>
18.      </date>
19.      <date type="other">
20.        <earliestDate>1260</earliestDate>
21.        <latestDate>1260</latestDate>
22.      </date>
23.    </dateSet>
24.    <descriptionSet>
25.      <display>The present cathedral was constructed on the foundations of the earlier church; the ol
26.      <description source="CCO (Cataloging Cultural Objects) Catalog Examples; http://www.vrafoundati
27.    </descriptionSet>
28.    <locationSet>
29.      <display>Chartres, Centre, France</display>
30.      <notes>Eure-et-Loir (department)</notes>
31.      <location type="site">
32.        <name vocab="TGN" refid="7033010">Chartres Cathedral</name>
33.        <name type="geographic" vocab="TGN" refid="7008267">Chartres</name>
34.      </location>
35.    </locationSet>
```

Log

17:39:52: validation completed: resulting xml is valid
17:39:51: validating... please be patient.
17:39:51: displaying Preview
17:39:51: Transformation successful: /db/tmp/d4fe1f9a-b404-4db9-9a69-d82d55a34382_transformed.xml
17:39:50: applying transformations
17:39:50: Processing CSV Lines done
17:39:50: line 44 processed.
17:39:50: line 43 processed.
17:39:49: line 42 processed.
17:39:49: line 41 processed.
17:39:48: line 40 processed.
17:39:48: line 39 processed.
17:39:47: line 38 processed.
17:39:47: line 37 processed.
17:39:46: line 36 processed.
17:39:46: line 35 processed.
17:39:45: line 34 processed.
17:39:45: line 33 processed.
17:39:44: line 32 processed.
17:39:44: line 31 processed.
17:39:43: line 30 processed.
17:39:43: line 29 processed.
17:39:43: line 28 processed.
17:39:42: line 27 processed.
17:39:42: line 26 processed.
17:39:41: line 25 processed.
17:39:41: line 24 processed.
17:39:40: line 23 processed.
17:39:40: line 22 processed.
17:39:39: line 21 processed.
17:39:39: line 20 processed.



5. Contact and further information

For instructions on how to use the VRA Core 4 Transform Tool please refer to the main [user guide on GitHub](#).

The [doc folder on GitHub](#) also contains related user guides (e.g. about how to convert excel data to csv data), the actual transform template (in .xlsx, .csv and .ods formats), and a sample data set.

If you have problems or questions please contact Matthias Arnold at matthias.arnold@uni-hd.de.

Contact details

matthias.arnold@uni-hd.de or
arnold@asia-europe.uni-heidelberg.de
Phone: +49 (0) 6221 - 54 4094
Fax: +49 (0) 6221 - 54 4012
Skype: matz-skype

Office address

Karl Jaspers Centre for Advanced
Transcultural Studies
Room 005b
Voßstraße 2, Building 4400
69115 Heidelberg
Germany

MediaLab

Karl Jaspers Centre, Room 005c

Further links

Web-Portal of Heidelberg Research Architecture
<http://hra.uni-hd.de/>

Ziziphus VRA Core 4 XML editor:
<https://github.com/exc-asia-and-europe/ziziphus>
Ziziphus - guidelines and help files:
<http://ziziphus-help.uni-hd.de>

MediaLab Tutorials in Sharepoint (internal access)
<https://sharepoint.urz.uni-heidelberg.de/vjc/kjc/hra/medialab/>