

Lycia Development Suite



Lycia Desktop Client
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Elena Krivtsova

Technical Writer

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Documentation written by:

Elena Krivtsova, Olga Gusarenko

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Table of Contents

INTRODUCTION.....3

SOFTWARE REQUIREMENTS4

For Windows.....4

For Linux/Unix.....4

INSTALLATION.....5

Lycia Desktop for Windows.....5

Lycia Desktop for Linux/UNIX.....6

RUNNING AN APPLICATION WITH LYCIA DC7

The Connection Dialog.....7

From Lycia Studio.....8

From the Command Line9



Introduction

This manual is intended for use by developers who want to deploy 4GL applications using the Querix™ thin-client Lycia DC.

In this guide you can find the software requirements, ways to install and run applications with Lycia DC which is included into the Lycia compiler package.

The Lycia DC is the Querix multi-platform thin client. It can be run both under Windows™ and Linux™ OSs, and is developed to allow the users to render and use 4GL applications as desktop ones. Lycia DC gets with the most recent developments and upgrades, it fully supports Microsoft WPF technology. Besides, it easily combines graphical user interface, dynamic documents and media contents.

This Guide is a work-in-progress one and does not reflect all of the latest changes to the Lycia DC.

If you have any comments or ideas on this guide improvement, feel free to mail them to our [technical writer](#).



Software Requirements

For Windows

Lycia DC is supported on most of the recent **Windows** platforms including:

- Windows XP SP3
- Windows Server 2003 SP2
- Windows Vista SP1 or later
- Windows Server 2008
- Windows 7
- Windows 8

For Linux/Unix

Lycia DC for **Linux/UNIX** is supported by the following systems:

- Ubuntu 12.04 and later
- Debian 7 and later
- OpenSuSE 12.2 and later
- Fedora Linux 17 and later

It is designed on the basis of node.js and chromium (node-webkit), and, technically, is very close to Lycia Web client.

This is the cause of one of the requirements to be met: LyciaWeb Client needs to be installed on the machine with Lycia Application Server and Lycia Web Server for Lycia DC is able to launch the applications either locally or remotely. For more information about Lycia Web client, please, refer to "LyciaWeb Client Guide".



If you don't have Lycia Web client installed on your Lycia Web Server, Lycia DC will not function.

To work with Lycia DC you need to install the JRE 1.7 or above.



Installation

Lycia DC installation processes for both UNIX/Linux and Windows OSs are easy and quick.

Lycia Desktop for Windows

The procedure of the desktop client installation for Windows OS is rather simple and familiar to anybody who has the previous experience in a software installation on a PC.

To install the Lycia desktop client, simply download the latest version of it from [here](#), run the installer program and follow these instructions:

- 1) Double-click the installation file Lycia DC.exe to run it. On this Lycia DC Welcome window is displayed.

- 2) Click the **Next** button.

Lycia Desktop Client End User License Agreement (EULA) window is displayed.

Read through the EULA. To continue with the installation you must accept the terms and conditions laid out in the EULA.

- 3) Press the **I accept** button.

The Select Installation Folder window is displayed.

If you want to change the location to which Lycia DC will be installed, click the **Browse** button and select the required location, before clicking the **Install** button.

- 4) Click the **Next** button.

- 5) To confirm the installation click the **Next** button in the Confirm Installation window.

During the installation the currently executed actions will be reported. When the installation finishes, click the **Next** button.



- 6) A window is displayed with the message '**Lycia DC has been installed on your computer.**' Click the **Finish** button.

Lycia Desktop for Linux/UNIX

Download the latest version of LyciaDC for Linux (this should be an .sh file) from [here](#) and follow these instructions:

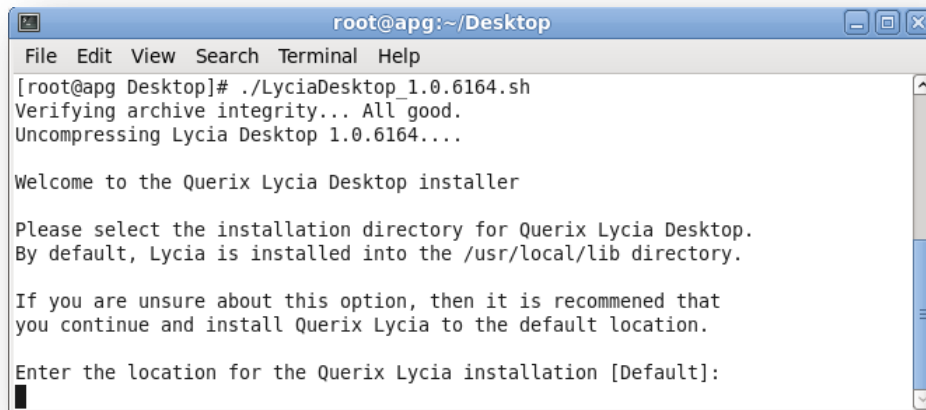
- 1) In the command line go to the location you saved the installation package in.
- 2) Make sure the file can be executed as a program. To make it executable you can use the following command:

```
chmod 777 LyciaDesktop_<version_number>.sh
```

- 3) Run the installation:

```
./ LyciaDesktop_<version_number>.sh
```

- 4) Select the installation path or leave the default one (by pressing Enter):



- 5) When the installation finishes, you can launch the connection dialog with the 'LyciaDesktop' command.

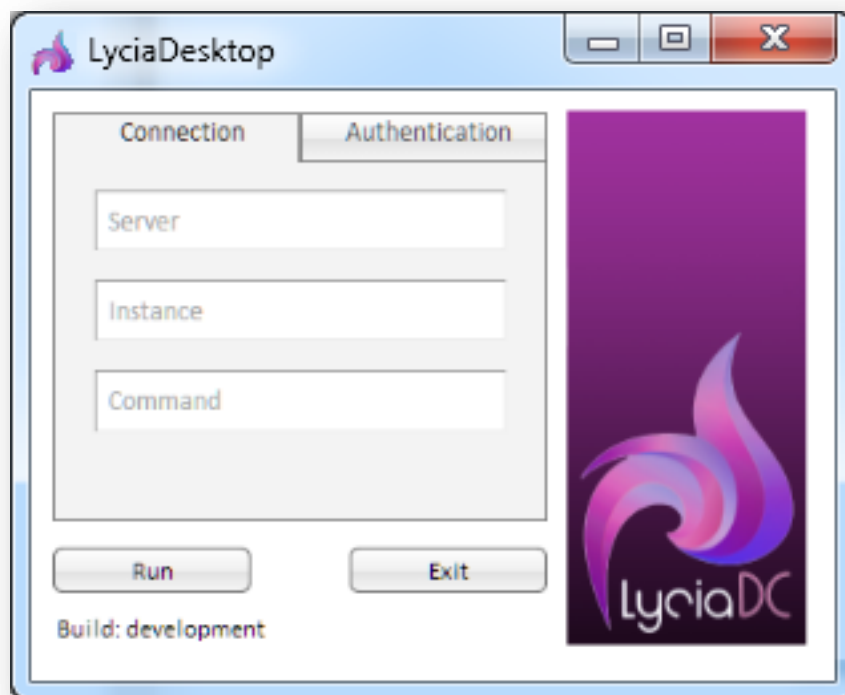


Running an Application with Lycia DC

The Connection Dialog

The connection dialog provides an interface for calling and running 4GL applications with Lycia DC.

The connection dialog box allows the operator to enter the connection parameters for the server host name, instance and application file name. There is also an **Authentication** tab which is used for the same purpose.



The **Server Host Name** field should contain the host name, e.g. 'localhost:9090'

The **Instance** stands for the service port or service name which can be found in the listener.xml file to which the configuration of GUI Server Instances are stored. By default, it can be found following the next path C:\Program Files\Querix\AppServer\listener.xml.



Here is the example of the listener.xml:

```
<?xml version="1.0" ?>
- <xml>
- <service>
  <name>default-1889</name>
  <port>1889</port>
  <applicationdir>C:\ProgramData\Querix\Lycia 6\progs</applicationdir>
  <logdir>C:\ProgramData\Querix\Lycia 6\logs</logdir>
  <envfile>C:\ProgramData\Querix\Lycia 6\etc\inet.env</envfile>
  <authmode>none</authmode>
  <auth_module>modauthnt.dll</auth_module>
  <logging>true</logging>
  <description>Default no authentication listener</description>
  <accessfilter>C:\Program Files\Querix\AppServer\filterip.xml</accessfilter>
  <enabled>true</enabled>
  <toolset>lycia2</toolset>
</service>
</xml>
```

The **Command** field may contain either the name of the executable 4GL file, or the relative path, if the program file is in a subfolder on an application server. The specified value here can be followed by the '-d <db-name>' argument or any custom argument needed.

Be sure to separate the name of the application and all the arguments by spaces as shown in the screenshot above.

Here are some examples of the Command field content:

- guidemo
- guidemo5.1/guidemo.exe
- guidemo5.1/guidemo par1 par2 -d oracle

From Lycia Studio

There are two ways to run the successfully compiled and built application from LyciaStudio:

1. Select the project you need to run from Lycia DC and click the corresponding toolbar icon.
2. Right-click the program in the 4GL Project view and select **Run As -> 4GL Program with Lycia DC** option from the context menu.



Make sure that the application you want to run is selected in the **4GL Project** view of LyciaStudio, otherwise this option will not be available, since it is the only way for LyciaStudio to know which program to run.

From the Command Line

To run a specific applications with Lycia DC from the command line, the `LyciaDesktop` command must be used. Its usage without any options will result in the connection dialog invocation.

Running the application directly from the command line acquires the following options:

<code>--server server_name</code>	the host name
<code>--instance service_name</code>	service port or service name from the listener.xml file
<code>--user user_name</code>	the user who runs application (for a secure port)
<code>--password pwd</code>	the password (for a secure port)
<code>--command application_name</code>	the application name with optional parameters to be passed to the application separated by spaces
<code>-d</code>	show the connection dialog (if all the required parameters were specified the dialog would not be invoked)
<code>-n</code>	do not show the dialog and errors

The `server_name`, `service_name` , `user_name`, `pwd` and `application_name` following the '`--server`', '`--instance`', '`--user`', '`--password`' and '`--command`' options respectively are the same as for the corresponding fields described in the 'The Connection Dialog' section above.