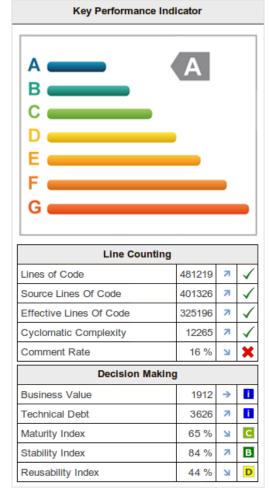


VALUING AND IMPROVING

SOFTWAR CAPITA





# Squore 17.0.12

**Installation Checklist** 

Reference : SIM\_QUICK\_Squore Version : 17.0.12 Date : 15/02/2018

Squoring Technologies 76, allées Jean Jaurès / 31000 Toulouse - FRANCE / Tel. +33 581 346 397 http://www.squoring.com/ APE 5829 C - SIREN 521171629 – RCS Toulouse

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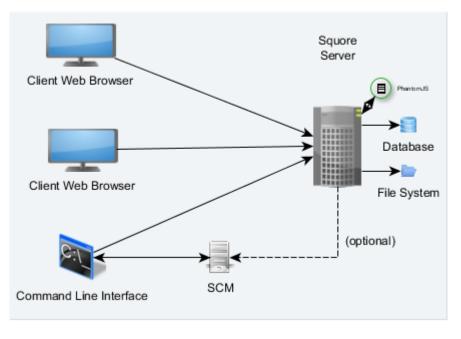
## **1. Introduction**

This document is a checklist and FAQ sheet you can use to make sure that your environment is ready for installing Squore. The first chapter covers common pre-requisites and concepts of the Squore architecture. Each of the following chapters covers more specific topics that you only need to read about if you are interested in using the proposed solutions.

## **1.1. The Squore Ecosystem**

Squore is based on a traditional 3-tier architecture consisting of:

- → A database and a data folder for storing project data
- → An application server running the main application, the licence server and a distribution of PhantomJS
- → A client front-end accessible through a Web Browser
- → A Command Line Interface (Squore CLI) to interact with the server from a client machine



The Squore Architecture

As shown in the schema above, Squore Server can provide analysis results to clients without having access to any source code, in scenarios where the analysis is carried out on a client machine with access to the SCM repository, as is the case in most Continuous Integration environments.

If you are planning to access source code hosted in a Subversion, Git, ClearCase, CVS or Synergy repository, a command line client for this repository must be available on the machine where the Squore analysis carried out. For complete information about all installation pre-requisites, consult Section 2.1, "Installation Prerequisites".

Squore allows analysing source code in the following programming languages: ABAP, Ada, C, COBOL, C++, C#, Fortran 77, Fortran 90, Java, JavaScript, Lustre, Mind-C, Objective-C, PHP, PL/SQL, Python, T-SQL, Visual Basic .NET, XAML.

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## 2. Preparing your Machine for Squore

This chapter only covers how to ensure that your environment can be prepared for a Squore installation. For actual instructions on how to install Squore itself, refer to the full Installation and Administration Guide.

## 2.1. Installation Prerequisites

## 2.1.1. Supported Operating Systems

The following is a list of the officially supported and tested operating systems:

- → CentOS 6
- CentOS 7
- → Fedora 19
- → Ubuntu Server 16.04
- → Windows 7
- → Windows 8
- → Windows 10

#### Note

On Linux, a 64-bit version of the OS is required

On Windows, a 64-bit version of the OS is required if you want Squore to run as a Windows service, but the installation is also supported on a 32-bit system (and is started and stopped using .bat files instead of a Windows Service)

The following is a list of the operating systems that are not regularly tested but are known to be working:

- → RedHat EL 6
- → RedHat EL 7
- → SuSe Linux 11.1
- → Ubuntu Server 10.04
- → Ubuntu Server 14.04
- → Windows Server 2008 R2
- → Windows Server 2012 R2

### 2.1.2. Supported Database Management Systems

Squore Server can use the following database management systems to store its data:

- → PostgreSQL 8.4 and up
- → Oracle Database 12c Release 1

In both cases, it is possible to have database on the same machine as Squore Server or on a remote machine.

#### Note

When using a database backend on a remote machine, the database administrator is responsible for backing up the database. The backup scripts included in the Squore Server installation will only handle the backup of the data stored on the Squore Server file system in that case. You can find more information about backup strategies for Squore Server in the section called **Backup Tools** in the Installation and Administration Guide.



## 2.1.3. Browser Compatibility

Squore is compatible with many browsers. The following is the list of officially supported browsers:

- → Google Chrome stable branch
- → Mozilla Firefox latest esr version
- → Microsoft Internet Explorer 11.0.15063.0 and up
- → Microsoft Edge 40.15063.0.0 and up

### 2.1.4. For All Systems

For a successful installation of Squore, you will need:

- The latest version of the Squore Server installer, which can be downloaded from http:// support.squoring.com/download\_area.php
- → A supported Operating System, as stated in Section 2.1.1, "Supported Operating Systems"
- The latest version of the Squore CLI installer, which can be downloaded from http://support.squoring.com/ download\_area.php for installations where only a command-line client is needed
- The latest version of the Squore Eclipse Plugin, which can be downloaded from http://localhost:8180/ SQuORE\_Server/eclipse for developer environments where Squore Eclipse Plugin will be used
- → A user account with system administrator privileges
- → The Oracle Java Runtime Environment version 8 (other versions are not supported)

#### Warning

- → It is technically possible to run Squore on a server using a 32-bit JRE, however this will limit the memory available to 1GB of RAM to run the application, which will result in poor performance. If you still want to attempt such an installation, consult the troubleshooting page at http:// openwiki.squoring.com/index.php/Running\_Squore\_On\_A\_32-bit\_Java\_Installation
- → A supported Eclipse version (Luna SR2 and up)
- → Valid credentials to log into a Squore Server
- → At least 2 GB of space available on the disk for a full installation
- → At least 8 GB of RAM on the server machine
- → A valid Squore Server licence file (optional, since the licence file can be added after installation)
- → At least 4 GB of RAM on the client machine
- The java executable should be in the machine's PATH environment variable for Squore CLI to run successfully.

#### Tip

Keep in mind that the requirements above are the strict minimum. In production, Squore Server generally runs on a dedicated machine with a multi-core processor and 8 to 12GB of RAM. Squore reserves 25% of the available RAM of the machine to the database and another 25% to the server. External processes (like Checkstyle or FindBugs) running on the same machine as Squore may add to the amount of RAM required for analysing source code. Linux is known to offer better performances than Windows when running Squore.

### 2.1.5. Prerequisites for Oracle

When using Oracle as a database backend, a database administrator must create an Oracle user before you can install Squore.

The user requires the following privileges:

Ref : SIM\_QUICK\_Squore



- → CREATE PROCEDURE
- → CREATE SEQUENCE
- → CREATE SESSION
- → CREATE TABLE
- → CREATE TYPE
- → CREATE VIEW
- → A valid quota for the tablespace used by the user (for example UNLIMITED)

## 2.1.6. Obtaining a Licence File

A Squore licence file is linked to the hardware that Squore Server is installed on. When you complete your installation of Squore Server, and access http://localhost:8180/SQuORE\_Server in your browser, you are presented with a screen that allows you to request an activation key and download an evaluation licence.

Request a license
<ul> <li>Get a free evaluation key</li> <li>I alreay have an activation key</li> <li>I already have a license file</li> </ul>
The licence request dialog

Request an activation key or enter an existing one to download a temporary licence for your machine. Requesting an activation key ensures that Squoring gets all the information necessary to generate your final licence file when the evaluation period ends.

#### Note

The licence request dialog only displays when accessing http://localhost:8180/SQuORE\_Server (it redirects to http://localhost:8180/SQuORE\_Server/License/License.xhtml) from the machine where Squore Server is installed. If you cannot open a browser window on the server, you will have to request your evaluation licence by manually generating and e-mailing your host-id to Squoring:

- 1. Open a terminal on the machine where you installed or plan to install Squore.
- 2. Change to the <SQUORE\_HOME> folder
- 3. Run the command java -jar ./lib/hostid.jar.
- 4. Send the output to support@squoring.com.

## 2.1.7. Packages for Windows

A JRE is required for Squore Server. The Windows installer contains the tcl and perl runtimes as well as a portable PostgreSQL installation and a distribution of PhantomJS.

A JRE is required for Squore CLI. The Windows installer contains the tcl and perl runtimes needed. It will allow you to obtain the configuration needed to create projects from the server.

A compatible version of Eclipse must be downloaded from http://www.eclipse.org/downloads/ if you are planning on using Squore Eclipse Plugin.

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## 2.1.8. Packages for Linux

On Linux platforms, the following must be installed before installing Squore:

- → **Perl** version 5.10.1 or greater including the following extra-modules:
  - → Mandatory packages:
    - Algorithm::Diff [module details] [http://search.cpan.org/~nedkonz/Algorithm-Diff/lib/Algorithm/ Diff.pm]
    - Archive::Zip [module details] [http://search.cpan.org/~phred/Archive-Zip/lib/Archive/Zip.pm]
    - Date::Calc [module details] [http://search.cpan.org/~stbey/Date-Calc/lib/Date/Calc.pod]
    - (Squore Server only) DBD::Pg (unless you use a Oracle as your database backend) [module details] [http://search.cpan.org/~turnstep/DBD-Pg/Pg.pm]
    - (Squore Server only) DBI (unless you use a Oracle as your database backend) [module details] [http:// search.cpan.org/~timb/DBI/DBI.pm]
    - Digest::SHA [module details] [http://search.cpan.org/~mshelor/Digest-SHA/lib/Digest/SHA.pm]
    - → HTTP::Request [module details] [http://search.cpan.org/~gaas/HTTP-Message/lib/HTTP/ Request.pm]
    - JSON [module details] [http://search.cpan.org/~makamaka/JSON/lib/JSON.pm]
    - JWP [module details] [http://search.cpan.org/~ether/libwww-perl/lib/LWP.pm]
    - → LWP::UserAgent [module details] [http://search.cpan.org/~gaas/libwww-perl/lib/LWP/ UserAgent.pm]
    - → Time::HiRes [module details] [http://search.cpan.org/~zefram/Time-HiRes/HiRes.pm]
    - > XML::Parser [module details] [http://search.cpan.org/~toddr/XML-Parser/Parser.pm]
  - → Optional packages for working with Microsoft Excel:
    - → HTML::Entities [module details] [http://search.cpan.org/dist/HTML-Parser/lib/HTML/Entities.pm]
    - Spreadsheet::BasicRead [module details] [http://search.cpan.org/~gng/Spreadsheet-BasicRead/ BasicRead.pm]
  - → Optional packages for working with OSLC systems:
    - Date::Parse [module details] [http://search.cpan.org/~gbarr/TimeDate/lib/Date/Parse.pm]
    - WWW::Mechanize [module details] [http://search.cpan.org/~ether/WWW-Mechanize/lib/WWW/ Mechanize.pm]
    - → XML::LibXML [module details] [http://search.cpan.org/~shlomif/XML-LibXML/LibXML.pod]
  - → Optional packages for working with GitHub systems:
    - → Date::Parse [module details] [http://search.cpan.org/~gbarr/TimeDate/lib/Date/Parse.pm]
    - Mail::Box::Manager [module details] [http://search.cpan.org/~markov/Mail-Box/lib/Mail/Box/ Manager.pod]
    - Mail::Message::Body::Lines [module details] [http://search.cpan.org/~markov/Mail-Box/lib/Mail/ Message/Body/Lines.pod]
    - Mail::Message::Construct [module details] [http://search.cpan.org/~markov/Mail-Box/lib/Mail/ Message/Construct.pod]
    - Mail::Mbox::MessageParser [module details] [http://search.cpan.org/~dcoppit/Mail-Mbox-MessageParser/lib/Mail/Mbox/MessageParser.pm]

→ Net::GitHub [module details] [http://search.cpan.org/~fayland/Net-GitHub/lib/Net/GitHub.pm] Ref : SIM\_QUICK\_Squore Version : 17.0.12

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- → Optional packages for working with Semios/Prometil systems:
  - → File::Slurp [module details] [http://search.cpan.org/~uri/File-Slurp/lib/File/Slurp.pm]
- → Optional packages for Advanced CSV Export Management:
  - → Text::CSV [module details] [http://search.cpan.org/~makamaka/Text-CSV-1.33/lib/Text/CSV.pm]

#### Tip

If some of these modules are not available as packages on your operating system, use your perl installation's cpan to install the modules. Using the OS packages is recommended, as it avoids having to reinstall via cpan after upgrading your version of perl.

- → Tcl version 8.5 or greater,
- → (Squore Server only) PostgreSQL version 8.4 (unless you use a RDBMS running on another system) including at least the server component, and optionally, the pgAdmin utility. Note that your system must use a UTF-8 locale for the database creation to be carried out successfully. You can force this by running export LANG=en\_US.UTF-8 or export LANG=fr\_FR.UTF-8 according to what is available on your system before installing Squore.
- → (Squore Server only) The **rsync** utility
- → A supported Eclipse version (Luna SR2 and up) if you are planning on using the Squore Eclipse Plugin

If you are running on a headless Squore Server, java-1.6.0-openjdk may not be sufficient, as it lacks some fonts to render graphics. This is why using Oracle's JRE is recommended.

### 2.1.9. Packages for CentOS and Red Hat Enterprise Linux

On Red Hat Enterprise Linux and CentOS (6.5 and 7.1), the dependencies are satisfied by the following packages:

#### Mandatory packages:

- → java-1.8.0-openjdk
- → perl
- → perl-Algorithm-Diff
- → perl-Archive-Zip
- → perl-Date-Calc
- → perl-Digest-SHA
- → perl-JSON
- → perl-libwww-perl
- → perl-Time-HiRes
- → perl-XML-Parser
- → (Squore Server only) **postgresql-server** (unless you use a RDBMS running on another system)
- → (Squore Server only) rsync
- → tcl
- A compatible installation of Eclipse downloaded from http://eclipse.org/downloads if you plan on using Squore Eclipse Plugin.

#### Optional packages for working with Microsoft Excel:

→ perl-HTML-Parser

Ref : SIM\_QUICK\_Squore



- → perI-CPAN (CPAN utility requirement)
- → **perl-Spreadsheet-ParseExcel** (available in the EPEL repository)
- → perl-Spreadsheet-XLSX (available in the EPEL repository)

#### Warning

The module **Spreadsheet::BasicRead** is not available as a package and must therefore be installed using cpan (make sure cpan is properly configured, by running **cpan** without arguments first):

sudo cpan -i Spreadsheet::BasicRead

#### Optional packages for working with OSLC systems:

- → perl-TimeDate
- → perl-WWW-Mechanize (available in the EPEL repository)
- → perl-XML-LibXML

#### Optional packages for working with GitHub systems:

- → perl-TimeDate
- → perl-Mail-Box (available in the EPEL repository)
- → perl-Mail-Mbox-MessageParser (available in the EPEL repository)
- → perl-Net-GitHub (available in the EPEL repository)

#### **Optional packages for working with Semios/Prometil systems:**

→ perl-File-Slurp

**Optional packages for Advanced CSV Export Management:** 

→ perl-Text-CSV (available in the EPEL repository)

For more information about how to install the Extra Packages for Enterprise Linux (EPEL) repository, consult https://fedoraproject.org/wiki/EPEL.

## 2.1.10. Packages for Ubuntu

On Ubuntu 16.04.3 LTS, the dependencies are satisfied by the following packages:

#### Mandatory packages:

- ibalgorithm-diff-perl
- ibarchive-zip-perl
- → libdate-calc-perl
- → (Squore Server only) libdbd-pg-perl (unless you use a Oracle as your database backend)
- → (Squore Server only) libdbi-perl (unless you use a Oracle as your database backend)
- → libhttp-message-perl
- → libjson-perl
- ibwww-perl
- ibxml-parser-perl
- openjdk-8-jre

Ref : SIM\_QUICK\_Squore



#### → perl

- → (Squore Server only) **postgresql** (unless you use a RDBMS running on another system)
- → (Squore Server only) **rsync**
- → tcl
- A compatible installation of Eclipse downloaded from http://eclipse.org/downloads if you plan on using Squore Eclipse Plugin.

#### Optional packages for working with Microsoft Excel:

- → make (CPAN utility requirement)
- ibhtml-parser-perl
- ibspreadsheet-parseexcel-perl
- → libspreadsheet-xlsx-perl

#### Warning

The module **Spreadsheet::BasicRead** is not available as a package and must therefore be installed using cpan (make sure cpan is properly configured, by running **cpan** without arguments first):

sudo cpan -i Spreadsheet::BasicRead

#### Optional packages for working with OSLC systems:

- ibtimedate-perl
- ibwww-mechanize-perl
- ibxml-libxml-perl

Optional packages for working with GitHub systems:

- ibtimedate-perl
- ibmail-box-perl
- → libmail-mbox-messageparser-perl
- → libnet-github-perl

**Optional packages for working with Semios/Prometil systems:** 

→ libfile-slurp-perl

**Optional packages for Advanced CSV Export Management:** 

→ libtext-csv-perl

## **2.2. Third-Party Plugins and Applications**

End users can run third-party static code analysers or rule checkers that are not shipped with the Squore installer for licencing reasons. In this case, it is necessary to download the extra binaries from http:// support.squoring.com/download\_area.php and deploy them on the server.

The list of third party plugins to be downloaded separately is as follows:

- → Checkstyle 5.6
- → FindBugs 3.0

Ref : SIM\_QUICK\_Squore



- → Cppcheck 1.61
- → PMD 5.0.5
- → Polyspace Export
- → Stylecop 4.7

Here is a full example of how to deploy Checkstyle into Squore

- 1. Download the Checkstyle binary from http://support.squoring.com/download\_area.php.
- 2. Extract the contents of the zip file onto Squore Server.
- 3. Copy the extracted checkstyle-5.6 folder into <SQUORE\_HOME>/addons/tools/CheckStyle\_auto.
- 4. Instruct all client installations to synchronise with the server so that they get the newly deployed thirdparty binaries.

If you have deployed some third-party tools on Squore Server, they will automatically be downloaded to your client when you launch the client synchronisation script.

#### Tip

AntiC and Cppcheck on Linux also require special attention: Cppcheck must be installed and available in the path, and antiC must be compiled with the command:

# cd <SQUORE\_HOME>/addons/Antic\_auto/bin/ && gcc antic.c -o antic

For more information, refer to the Command Line Interface Manual, which contains the full details about special installation procedures for Data Providers and Repository Connectors.

## 2.3. Requirements for LDAP Integration

In order to configure Squore to integrate with your LDAP Server, you should make sure that you have access to the following information:

- → The address of the LDAP server you want to connect to Squore.
- → The section(s) of the directory that contain the users that should be allowed to log into Squore.
- The login and password of a user account allowed to browse the section(s) of the directory mentioned above.
- Basic knowledge of your directory structure. Note that Squore was tested with Microsoft Active Directory on Windows Server 2008 and OpenLDAP on Ubuntu 12.04.

If you need to obtain this information to a system administrator, ask for these details:

- → **java.naming.provider.url**: The URL of the directory server.
- → **baseCtxDN**: The fixed DN of the context to start the user search from.
- → bindDN: The DN used to bind against the ldap server for the user and roles queries. This is some DN with read/search permissions on the baseCtxDN and rolesCtxDN values.
- → bindCredential: The password for the bindDN
- baseFilter: The search query sent by Squore to the LDAP server when authentificating. If the password is correct and the search returns true, the user is allowed to log into Squore. The default query checks that the login exists, but you can change it to check that the login is valid and that the user is part of a specific group for example, using the syntax &((condition1) (condition2)). For more information about LDAP query syntax, refer to https://technet.microsoft.com/en-us/library/aa996205(v=exchg.65).aspx. Note that the & characters must be written as an entity (&) in the settings file.



- → rolesCtxDN: The fixed DN of the context to search for user roles. This is required to exist, even though it is not used by Squore at the moment.
- → userCompositeName (optional): the field in the LDAP account that Squore will import and user as the user's full name.
- userMail (optional): the field in the LDAP account that Squore will import and user as the user's e-mail address.
- → userOrganizationUnit (optional): the field in the LDAP account that Squore will import and user as the user's department.
- → userId (optional): the field in the LDAP account that Squore will use as a the final user login to create the account or log into the application. When no value is specified for this field, Squore uses the login as typed by the user on the login page.

#### Note

Using this field helps avoiding confusion with mixed-case logins. Squore Server considers **demo** and **Demo** as two separate users by default. By specifying that the login is taken from a specific field from your directory, you ensure that the same account is used no matter what case was used in the login form.

## 2.4. Requirements for TeamForge Integration

In order to configure Squore to integrate with TeamForge, you will need to provide the following Teamforge details:

- FreamForge Server URL (without / at the end), for example http://localhost.
- FreamForge Server Name (will appear in Squore export format list), for example TeamForge.
- → TeamForge artifact default status at export, for example Open.
- → **TeamForge artifact default priority at export**, for example 4.
- → SvnEdge Main Repository URL, for example http://localhost/svn.
- SvnEdge Viewer (viewvc) URL, for example http://localhost/viewvc.
- → External System Id of SvnEdge (for ex: exsy1001), for example exsy1011.

The rest of the configuration is carried out on the TeamForge side with data obtained from Squore after you create some projects. You can see this information in the full Installation and Administration Guide

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