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How to Install XWiki on Ubuntu 18.04

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12-15 Minuten



XWiki is a free and opensource advanced Wiki Software which is written in Java. It runs on servlet containers like JBoss, Tomcat etc. It uses a database such as MySQL or PostgreSQL to store its information.

In this tutorial, I'll explain how to install XWiki software on Ubuntu 18.04, using its standalone distribution which is the fastest and easiest way because all components needed by XWiki are automatically installed on the server. This XWiki software provides an in-built XWiki, with a portable database (HSQLDB) and a lightweight Java container (Jetty).

XWiki comes with lots of useful features such as:

- A very robust WYSIWYG editor for page editing
- A powerful wiki syntax
- Content organization
- Create your own applications
- Version Control
- Advanced search and a lots more

Hardware and Software Requirements

- Java 1.8.0_101 or greater installed for XWiki >= 8.1 (Java 7 or greater for XWiki < 8.1, Java 6 or greater for XWiki versions < 6.0).
- A Servlet Container supporting Servlet 3.0.1 (Servlet 2.4 for XWiki versions < 7.0)
- A Database and a JDBC 4 Driver for your database
- Enough memory, at least 2 GB RAM (or 1 GB for small Wikis)

XWiki Installation Steps

Before starting any installation, I would recommend updating your system software using apt-update. And you can install wget and screen package if those aren't installed before.

```
#apt-get update -y
#apt install wget screen
```

Step 1: Install Java

As discussed before, Xwiki is a Java-based application, so you will need to install Java 8 or above to meet its software requirement. By default Java 8 is not available in the default Ubuntu repository. Hence, you can install the supported Java by adding the webupd8Team PPA repository to your system.

```
#add-apt-repository ppa:webupd8team/java
#apt-get update -y
```

After adding the PPA repository you need to update the repository packages. Once it's done you can install the required Java 8 by running this command below:

```
#apt-get install oracle-java8-installer -y
```

You can confirm the Java version installed.

```
~# java -version
```

```
java version "1.8.0_181"
```

```
Java(TM) SE Runtime Environment (build 1.8.0_181-b13)
```

```
Java HotSpot(TM) 64-Bit Server VM (build 25.181-b13, mixed mode)
```

Step 2: Download and Install XWiki

Firstly, you need to start a new screen session for this XWiki installation. Now we need to download the generic installer that works on all platforms. It just requires only Java to be installed on your system. You can download the [XWiki generic installer](#) file with this command below:

```
#screen -U -S xwiki
#wget http://download.forge.ow2.org/xwiki/xwiki-enterprise-installer-generic-8.1-standard.jar
```

Once you have downloaded this installer, you can install this downloaded package using Java. The installer takes you to various interactive sections as shown below where it demands an output like entering 1 (accept or proceed) / 2 (quit) / 3 (redisplay) from you to proceed with the installation. Most of the prompts can be answered with 1 (accept or proceed). The installer is quite self-explanatory, so you just need to follow the instructions.

```
# java -jar xwiki-enterprise-installer-generic-8.1-standard.jar
Aug 7, 2018 10:08:33 AM INFO: Logging initialized at level 'INFO'
Aug 7, 2018 10:08:33 AM INFO: Commandline arguments:
Aug 7, 2018 10:08:33 AM INFO: Detected platform: ubuntu_linux,version=4.15.0-29-generic,arch=x64,symbolicName=null,javaVersion=1.8.0_181
Welcome to the installation of XWiki Enterprise
```

```
8.1!
The homepage is at: http://xwiki.org/

Press 1 to continue, 2 to quit, 3 to redisplay

While pressing 1 to continue, it will provide you with XWiki
Enterprise - Readme Note as below:

Please read the following information:
XWiki Enterprise - Readme

XWiki Enterprise is a second generation Wiki
engine, features professional features like
XWiki Enterprise also includes an advanced form
and scripting engine which makes it an ideal
development environment for constructing data-
based intranet applications. It has powerful
extensibility features, supports scripting,
extensions and is based on a highly modular
architecture. The scripting engine allows to
access a powerful API for accessing the XWiki
repository in read and write mode.
XWiki Enterprise is used by major companies around
the world and has strong Support for a
professional usage of XWiki.
Here are some pointers to get you started with
XWiki once you have finished installing it:
The documentation can be found on the XWiki.org
web site
If you wish to talk to XWiki users or developers
please use our
You can also access XWiki's
If you need commercial support please visit the
Support page

Press 1 to continue, 2 to quit, 3 to redisplay
1

Once you Press 1 to proceed, it will take you to the License
Agreement notice.

Press 1 to continue, 2 to quit, 3 to redisplay
1
See the NOTICE file distributed with this work for
additional information regarding copyright
ownership.
This is free software; you can redistribute it
and/or modify it under the terms of the GNU Lesser
General Public License as
published by the Free Software Foundation; either
version 2.1 of the License, or (at your option)
any later version.
This software is distributed in the hope that it
will be useful, but WITHOUT ANY WARRANTY; without
even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE. See the GNU Lesser General Public License
for more details.
You should have received a copy of the GNU Lesser
General Public License along with this software;
if not, write to the Free
Software Foundation, Inc., 51 Franklin St, Fifth
Floor, Boston, MA 02110-1301 USA, or see the FSF
site: http://www.fsf.org.

Press 1 to accept, 2 to reject, 3 to redisplay
1

After accepting the License Agreement, it will take you through
various installation stages for setting up the installation folder, auto
installer, Desktop shortcuts, user shortcuts etc. I'm proceeding with
the default path selected by the installer. If you need, you can set
custom paths during this section.

Select the installation path: [/usr/local/XWiki
Enterprise 8.1]

Press 1 to continue, 2 to quit, 3 to redisplay
1

[x] Pack 'Core' required

[x] Include optional pack 'Default Wiki'

Enter Y for Yes, N for No:
Y
Done!

Press 1 to continue, 2 to quit, 3 to redisplay
1
[ Starting to unpack ]
[ Processing package: Core (1/2) ]
[ Processing package: Default Wiki (2/2) ]
[ Unpacking finished ]

Create shortcuts in the Start-Menu

Enter Y for Yes, N for No:
Y

Create additional shortcuts on the desktop

Enter Y for Yes, N for No:
Y

create shortcut for: all users

Enter Y for Yes, N for No:
Y
Aug 7, 2018 10:11:08 AM WARNING: Shortcut 'Go to
```

```
my wiki' has URL but type ('Application') is not
'Link'
Aug 7, 2018 10:11:08 AM WARNING: Shortcut 'Go to
my wiki' has URL but type ('Application') is not
'Link'
Aug 7, 2018 10:11:08 AM WARNING: Shortcut
'Documentation' has URL but type ('Application')
is not 'Link'
Aug 7, 2018 10:11:08 AM WARNING: Shortcut
'Documentation' has URL but type ('Application')
is not 'Link'
```

Generate an automatic installation script

Enter Y for Yes, N for No:

Y

Select the installation script (path must be
absolute)[/usr/local/XWiki Enterprise 8.1/auto-
install.xml]

Installation was successful

application installed on /usr/local/XWiki
Enterprise 8.1

[Writing the uninstaller data ...]
[Console installation done]

Once the installation is done, it will display the Application
installation folder as shown in our output which is at /usr/local
/XWiki Enterprise 8.1. Now you need to move to the
application folder and run the XWiki startup script as below:

```
# cd /usr/local/XWiki\ Enterprise\ 8.1/
1:/usr/local/XWiki Enterprise 8.1# bash
start_xwiki.sh
Starting Jetty on port 8080, please wait...
2018-08-09 09:31:08.832:INFO:main: Logging
initialized @692ms
2018-08-09 09:31:09.354:INFO:oejs.Server:main:
jetty-9.2.13.v20150730
2018-08-09
09:31:09.378:INFO:oejs.AbstractNCSARequestLog:main:
Opened /usr/local/XWiki Enterprise 8.1/data
/logs/2018_08_09.request.log
2018-08-09
09:31:09.383:INFO:oejdp.ScanningAppProvider:main:
Deployment monitor [file:/usr/local
/XWiki%20Enterprise%208.1/jetty/context/] at
interval 0
2018-08-09 09:31:32,621 [main] INFO
o.x.s.s.i.EmbeddedSolrInstance - Starting embedded
Solr server...
2018-08-09 09:31:32,633 [main] INFO
o.x.s.s.i.EmbeddedSolrInstance - Using Solr home
directory: [data/solr]
2018-08-09 09:31:38,070 [coreLoadExecutor-
6-thread-1] WARN o.a.s.c.SolrCore - [xwiki] Solr
index directory '/usr/local/XWiki Enterprise
8.1/data/solr/xwiki/data/index' doesn't exist.
Creating new index...
2018-08-09 09:31:39,756 [main] INFO
o.x.s.s.i.EmbeddedSolrInstance - Started embedded
Solr server.
2018-08-09
09:31:41.705:INFO:oejsh.ContextHandler:main:
Started
o.e.j.w.WebAppContext@6df97b55{/xwiki,file:
/usr/local/XWiki%20Enterprise%208.1/webapps/xwiki
/,AVAILABLE}{/xwiki}
2018-08-09
09:31:41.802:INFO:oejsh.ContextHandler:main:
Started o.e.j.w.WebAppContext@8389a9ff6(/,file:
/usr/local/XWiki%20Enterprise%208.1/webapps
/root/,AVAILABLE){/root}
2018-08-09
09:31:41.862:INFO:oejs.ServerConnector:main:
Started ServerConnector@6a6b8692(HTTP/1.1)
{0.0.0.0:8080}
2018-08-09 09:31:41.862:INFO:oejs.Server:main:
Started @33722ms
2018-08-09
09:31:41.862:INFO:oxtml.NotifyListener:main:
-----
2018-08-09
09:31:41.869:INFO:oxtml.NotifyListener:main:
Server started, you can now open
http://ubuntu18.example.com:8080/ in your browser
to access your wiki.
2018-08-09
09:31:41.871:INFO:oxtml.NotifyListener:main:
-----
```

The Application will automatically start on port 8080. You need to
wait for a few minutes to start the application. And once it's done,
you can visit the XWiki via your domain or Server IP on port
8080. Do not close our screen terminal window that shows up. It's
needed for our XWiki server to be running. You can stop this XWiki
server by terminating this screen terminal.

PS: By default, the application runs on port 8080. But if you'd like to
use custom port 8081, make sure there's nothing already running
on port 8081 and start XWiki with the following command:

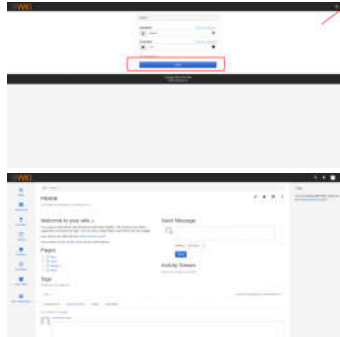
```
#bash start_xwiki.sh -p 8081
```

Step 3: Launch the application

Once XWiki is started, you can point your browser to
http://ServerIP or Hostname:8080/ to access the Web
interface.



You can log in to the Admin Panel using the default Admin user (first letter is capitalized) and its default password is admin (lowercase).



Read Also:

- [15 Linux Screen Command for Dealing Terminal Sessions](#)
- [How to Install Java 8 on Ubuntu 18.04](#)

Hurray! We have successfully installed and configured our XWiki. I hope this article will help you to set up your own self-hosted Wiki using XWiki. Please post your valuable suggestions and comments on this.