Installing midPoint Development Snapshot - Source Code

⚠️ **Development Snapshot**

This guide provides instruction for installing midPoint development snapshot. This is the very bleeding edge of midPoint development. We try really hard to have continuous iterative and incremental development and we pay great care not to break anything and have all imrpotant tests passing at any moment during the development. However, unexpected things happen. Parts of the development snapshot may behave in a strange fashion, there may be unfinished things and some things may be broken. You are going into uncharted territory. There be dragons. You have been warned.

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ⓘ **Source Code**

This guide provides instruction for installing midPoint from the source code. It requires basic software development tools and some experience to build the product. This is recommended only for engineers that want to test the latest development version of midPoint and for developers who would like to participate in midPoint development. Everybody else will probably find installing from the binary build much easier.

Before You Start

⚠️ **Release Notes**

Please make sure to see Release Notes for list of environments that are known to work and for the list of known issues in current release.

Prerequisites

Java Development Kit 8

The development environment requires at least JDK 8. You can use OpenJDK wich might be already installed on your system of you can download JDK from Oracle.

`JAVA_HOME` environment variable should point to the JDK installation path.

Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 8

Optional AES-128 is used by default for encrypt/decrypt operations, so JCE is not needed. If you want to use bigger key size, e.g. AES-256, then JCE is required for cryptographic operations. You can download it at http://www.oracle.com/technetwork/java/javase/downloads/index.html. After downloading zip file follow installation instructions written in README.txt

⚠️ **Java 8 only**

MidPoint is supported only on Java 8 platforms. MidPoint supported both Java 7 and Java 8 for several years. The support for Java 7 was deprecated in midPoint 3.4.1 and it was removed in midPoint 3.5.

Git

The midPoint source is available from a Git server. The details regarding Git, Git client software and Git server locations are described in Git page. Short summary of Git coordinates is provided in the following table.

GitHub project page	https://github.com/Evolveum/midpoint
Git Repository URLs (public access)	https://github.com/Evolveum/midpoint.git git@github.com:Evolveum/midpoint.git

Branch	master

Maven

Download and install **Maven3**: http://maven.apache.org/download.html

`M2_HOME` environment variable should point to the Maven installation path.

Prepare MidPoint Software

Get MidPoint

Get the source from our Git repository

```
git clone https://github.com/Evolveum/midpoint.git
```

For more information about the source repository structure see [Source Code](#).

Build MidPoint From Sources

Enter the directory with downloaded source code and execute either of the following commands:

```
mvn install
```

Complete build process also includes unit and integration tests and more than one hour. You can speed up the build by skipping automatic tests using the following command:

```
mvn install -DskipTests=true
```

After the successful build process there will be a binary distribution package located in `dist/target` directory.

> ⊘ **Building the WAR file only**
>
> If the WAR file is all you need you can speed the build even further by skipping the packaging of the distribution archive. Use the following command to turn off the `dist` maven profile:
>
> ```
> mvn clean install -DskipTests=true -P -dist
> ```
>
> Please note the minus character (-) before profile name.
> The resulting WAR file can be obtained from `gui/admin-gui/target/midpoint.war`

Run MidPoint

Continue with installation in the same way as for a binary release. See [Trying MidPoint](#) page. But you need to use your own freshly built distribution package instead of downloading it.

See Also

- [First Steps](#)
- [How to start with IntelliJ IDEA](#)
- [How to start with Eclipse](#)
- [Development Participation](#)