3.1 System and Software Requirements

Introduction

This guide details the process for installing the system requirements of the Direct Certificate Discovery Tool (DCDT, or the *Tool*).

Hardware Requirements

Hardware Type	Minimum Requirement	Notes
CPU	1 Processing Unit @ 2.0GHz	Only a rough estimate.
Memory (RAM)	3GB	Less memory is required if the pieces of software are run on different machines.

Software Requirements

Software Name	Minimum Version	Notes
Ubuntu (Server)	14.04 LTS (Trusty Tahr)	
Oracle Java 8 JDK + JRE	1.8.0	Install instructions detailed below.
Git CLI	1.9.1	Install instructions detailed below.
Apache Maven	3.1.1	Install instructions detailed below.
Apache Tomcat	7.0	Install instructions detailed below.

Install Software Requirements

Java Development Kit (JDK) & Java Runtime Environment (JRE)

In order to get the proprietary Oracle Java 8 packages, run the following:

```
sudo add-apt-repository ppa:webupd8team/java
sudo apt-get update
sudo apt-get install oracle-java8-installer
sudo update-java-alternatives -s java-8-oracle
```

To set the JAVA_HOME environment variable for the installed JDK:

```
export JAVA_HOME=/usr/lib/jvm/java-8-oracle
echo "export JAVA_HOME=$JAVA_HOME" | sudo tee -a /etc/environment
```

To obtain the Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files required for unlimited strength encryption used in DCDT, run either of the following sets of commands:

```
sudo apt-get install oracle-java8-unlimited-jce-policy
```

Git CLI

Run the following:

```
sudo apt-get install git
```

Apache Maven

> ⓘ Maven must be installed manually because the minimum version of Maven that must be installed is 3.1.1 and on 14.04 LTS, the default version of Maven that is installed is 3.0.5 if the following command
>
> ```
> sudo apt-get install maven
> ```
>
> is run.

Instructions for how to install Maven manually can be found here and archived versions of Maven 3 can be downloaded here.

Apache Tomcat

Run the following:

```
sudo apt-get install tomcat7 tomcat7-admin
```