

Linux configuration

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1. *Verify Java version*

Using of the latest version of [Java 8](#) is recommended.

Verify installed Java version. Perform in terminal the following:

```
java -version
```

If Java version is less than 8, install [Java 8](#). Perform in terminal the following:

```
sudo add-apt-repository ppa:webupd8team/java
```

```
sudo apt-get update
```

```
sudo apt-get install oracle-java8-installer
```

2. *Set required permissions*

It is necessary to set read & write permissions for the **CoLiTec** directory. Perform in terminal the following:

```
chmod -R 700 Path_to_CoLiTec
```

3. *C & C++ compilers update*

3.1 *C compiler*

Verify compiler C version. Perform in terminal the following:

```
gcc -v
```

If C compiler version is less than 4.8, install gcc 4.8 or higher. Perform in terminal the following:

```
sudo add-apt-repository ppa:ubuntu-toolchain-r/test
```

```
sudo apt-get update
```

```
sudo apt-get install gcc-4.8
```

```
sudo update-alternatives --remove-all gcc
```

```
sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-4.8 20
```

```
sudo update-alternatives --config gcc
```

3.2 C++ compiler

Verify compiler C version. Perform in terminal the following:

```
g++ -v
```

If C++ compiler version is less than 4.8, install g++ 4.8 or higher. Perform in terminal the following:

```
sudo add-apt-repository ppa:ubuntu-toolchain-r/test
```

```
sudo apt-get update
```

```
sudo apt-get install g++-4.8
```

```
sudo update-alternatives --remove-all g++
```

```
sudo update-alternatives --install /usr/bin/g++ g++ /usr/bin/g++-4.8 20
```

```
sudo update-alternatives --config g++
```

4. Database libraries update

If necessary, update database libraries. Perform in terminal the following:

```
sudo apt-get install libpam0g:i386
```

```
sudo apt-get update
```

```
sudo apt-get upgrade -y
```

```
sudo apt-get dist-upgrade
```

5. Install libraries for reports (e-mail) sending in LookSky

Reports (e-mail) sending in LookSky is performed by using the SMTP protocol. For example, [gmail](mailto:usermail@gmail.com) (usermail@gmail.com, smtp.gmail.com, port 465). Before using gmail, make sure that «Allow less secure apps» option is set in «Sign-in & security» section. In addition, the reports will be also saved to «Sent Mail». This is exclusive policy of Google, another mail services don't have this.

For the implementation the following are used: free [Synapse](#) library and open source [X-Mailer](#) plugin.

If necessary, install libraries for e-mail sending. Perform in terminal the following:

```
sudo apt-get install libssl-dev
```