

# Installation Guide for SafeCLib (Linux)

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## Uninstalling Older Versions

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Before installing the new version of SafeCLib, ensure that any older versions are removed from your system. Run the following commands with administrative privileges (NOTE: examples only):

```
sudo rm -rf /usr/local/include/safeclib
sudo rm /usr/local/lib/libsafec.so /usr/local/lib/libsafec.so.3
/usr/local/lib/libsafec.so.3.0.7 /usr/local/lib/libsafec.so.3.0.9
sudo rm /usr/local/lib/libsafec.a
sudo rm /usr/local/lib/libsafec.la
```

These commands will remove all traces of the older SafeCLib installation.

## Installing the New Version

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### 1. Clone the SafeCLib Repository

First, clone the SafeCLib repository from GitHub:

```
git clone https://github.com/rurban/safeclib.git
cd safeclib/
```

### 2. Generate the Build Scripts

Run the `autogen.sh` script to generate the necessary build scripts:

```
./build-aux/autogen.sh
```

### 3. Configure the Build

Configure the build with the option to enable static libraries:

```
./configure --enable-static
```

### 4. Build the Release Version

Compile the Release version of SafeCLib:

```
make config=Release
```

## 5. Install SafeCLib

Install the compiled binaries to your system:

```
sudo make config=Release install
```

These steps will install the latest version of SafeCLib on your Linux system, ensuring that all necessary files are properly configured and ready for use.