

## Installation instructions for RCS on Ubuntu 12.04-LTS

Our recommendations are to use a Ubuntu LTS release.

This installation instructions assumes Ubuntu 12.04-LTS

You can either choose the 32bit or the 64 bit version, there is one difference in choosing 64bit and that is how to install 32bit libs needed by the supported jre(Java)files.

### Step 1: Ubuntu Installation

You can choose either the desktop version or the server version.

Important is to disable the tomcat installation if it is enabled, it will conflict with the RCS.

If you are unsure about any other options during the installation always choose default.

### Step 2: MySQL installation

Depending on your choices during the Ubuntu installation you might already have the MySQL server installed. You can check if MySQL already is installed by issuing this command:

```
$> mysql -version
```

```
mysql Ver 14.14 Distrib 5.5.24, for debian-linux-gnu (i686) using readline 6.2
```

```
$>
```

If you do not get any output you can install MySQL with:

```
$>sudo apt-get install mysql-server
```

During the installation of MySQL server you will be prompted for a root password, Choose a good root password and remember it, you will need it later on in the installation.

### Step3: Download and unpack RCS installation file

First download the RCS installation file from [www.repeatit.se](http://www.repeatit.se).

We suggest that you download it to the directory "/usr/local/"

<http://www.repeatit.se/Firmwares/Managment/RCSLinuxInstall-2.9.5.0.tgz> After downloading the file you need to unpack the file:

```
$> cd /usr/local
```

```
$> sudo tar -xzf RCSLinuxInstall-2.9.5.0.tgz
```

The file will be unpacked in a map called RS3RCS.

#### **Step 4: Java installation**

Because of incompatibility in SSL communication between Base stations and the RCS a specific version of java is required.

If you install java the "normal" way with apt-get everything will appear working but communication with base stations will not work properly.

However on Trinity units this problem does not exist.

The version supported are jre-6u35-linux-i586.bin it can be downloaded from Oracles website but it could be hard to find the correct version.

<http://www.oracle.com/technetwork/java/javase/downloads/jre6u35-downloads-1836473.html>

We have also added this specific version into the RCS Installation file. When you have unpacked the installation file in Step 3 you will have a directory called jre6u35, in this directory you will find the correct jre file.

Now you need to run the jre binary file to unpack it.

If you earlier chose the 64bit Ubuntu version this self extracting file will not work, you will first need to install a couple of 32bit libraries.

```
$>sudo apt-get install libz1:i386
```

```
$> cd /usr/local/RS3RCS/jre6u35
```

```
$> sudo ./jre-6u35-linux-i586.bin Unpacking...
```

```
Check summing....
```

```
Extracting....
```

```
Press enter to continue....
```

```
Done.
```

```
$>
```

Then move the extracted directory to /opt/jre1.6.0\_35

```
$>sudo mv jre1.6.0_35 /opt/jre1.6.0_35
```

#### **Step 5 Installation of RCS**

Move to the directory with the RCS installation files.

```
$> cd /usr/local/RS3RCS/installscripts
```

We need to tell RCS and its web where to find the java files.

```
$> export JAVA_HOME=/opt/jre1.6.0_35/
```

```
$> sudo ./doInstall ROOT_PWD_FOR_MYSQL
```

The installation part will take a short time and you will see a counter counting up to 100%, when 100% is reached installation is finished.

Note: If the root password is not provided you will get an error message.

If the JAVA\_HOME environment variable is not set you will also get a error message.

## Step 6 Manually start RCS and web application

You can now manually start the RCS kernel and web application.

There are two scripts in the RS3RCS directory RCSKernel and RCSwebapp.

Both scripts need the JAVA\_HOME variable and rcswebapp needs to be run with root privileges. Easiest is to open a new shell with root privileges.

```
$> sudo sh
$> cd /usr/local/RS3RCS
$> export JAVA_HOME=/opt/jre1.6.0_35
$> ./RCSKernel start
$> ./RCStomcat start
$> exit
```

The last exit is to move out from the shell with root privileges.

Now try to access the RCS web interface from another computer or from the server itself.

On local machine <https://localhost:500>

On remote machine [https://ipaddress\\_of\\_server:500](https://ipaddress_of_server:500)

The default login and password is sysadm/sadm999x

## Step 7 Make the RCS start automatically at bootup

We need to create two new script files in the init.d directory and then add symbolic links from the rc2.d directory. In the directory RS3RCS/installscripts/ there are two files that needs to be copied to the /etc/init.d/ directory. The files assumes that you have chosen the recommended directories for the installation.

```
$> sudo cp /usr/local/RS3RCS/installscripts/rcskernel /etc/init.d
$> sudo cp /usr/local/RS3RCS/installscripts/rcswebapp /etc/init.d
$> sudo ln -s /etc/init.d/rcskernel /etc/rc2.d/S98rcskernel
$> sudo ln -s /etc/init.d/rcswebapp /etc/rc2.d/S99rcswebapp
```

Now we recommend that you reboot the Server and check that everything is started correctly.

```
$> sudo reboot
```

If everything is correctly done you will when the server has booted be able to access the web interface of the RCS.