

# Installing on CentOS / RHEL 7 / Fedora

## General Notes

sipXcom should be installed on servers with only a single network adapter.

64 bit builds only are available.

CentOS 7 / RHEL 7 is the recommended Operating System. Get it here <https://www.centos.org/download/>

## Videos

Installing CentOS7 for sipXcom:



RPM Installation of 19.04 on CentOS 7 64-bit Minimal:



## Steps

### 1. Install sipXcom over an existing pre-installed Operating System (such as CentOS 7 minimal) through yum

- a. Install **CentOS/RHEL 7 64 bit** by using the **minimal** installation option.
- b. Only minimum installation is necessary, in fact this is preferred. All of packages that sipXcom needed will be then installed automatically.
- c. Be sure to run **yum update** just after installing your OS and before installing sipXcom applications to ensure the latest RPMs are installed but also to avoid conflict errors when new packages are getting installed.
- d. CentOS/RHEL 7 is now the preferred distribution.
- e. 64 bit version of the distribution as its preferred by MongoDB: the embedded distributed database package.

#### **Important NOTES - On CentOS**

- i. Minimal install - be sure to click on "Network Connectivity" button on the same screen where you assign the hostname. If you don't - you will have to manually configure your Ethernet Interface file!
- ii. On first boot - you may need to edit your /etc/sysconfig/network-scripts/YourNICCard Change ONBOOT="no" to ONBOOT="yes"
- iii. "yum install wget" to install the wget program required to download your RPM files.

### 2. Increase Max Number of ulimit open files and max user processes for MongoDB (important for larger systems)

- a. edit /etc/sysctl.conf to add fs.file-max = 65536 line
- b. edit /etc/security/limits.conf to add the following block of text:

```
*      soft      nproc      65535
*      hard      nproc      65535
*      soft      nofile     65535
*      hard      nofile     65535
```

c. reboot

### 3. Add the Repository repo file (example to install sipXcom 19.04, you may need to 'yum install wget' on CentOS Minimal install)

```
yum install wget
wget -P /etc/yum.repos.d http://download.sipxcom.org/21.04-centos7/sipxecs-21.04.0-centos.repo
```

### 4. Install sipXcom

```
yum install sipxcom
```

### 5. Run setup and the system will reboot to disable selinux to allow the rest of the setup routine to work properly.

```
sipxecs-setup
```

**6. Run setup again and answer basic questions. See [Quick Start#InstallationWizard](#) for help answering these questions.**

```
sipxecs-setup
```

**7. After initial setup and before configuring the system further, yum update the system and reboot the server.**

```
yum update -y  
reboot
```

**8. After a couple of minutes, the administration web interface should be available at <https://your-host-name-or-ip-address/>**

**Note:** Let's Encrypt certificates are automatically generated in version 19.12 and later. You must install with a 'proper' SIP domain name now (i.e., don't use sip.company.local. Something like sip.company.com will work). If you want to use your own certificate or a self-signed certificate see [Certificates](#)

At this point, you may want to consider reading the [Quick Start](#) page skip to the section that starts with logging into the administration user interface.