

# Backend server installation and update

## Requirements and prerequisites

Backend server minimal requirements are the same as for [WCS](#), except for disk storage - greater is better, if the database is on the same server.

One of recommended [time series DBs](#) should be installed to store stream metric values, and [SQL DB](#) should be installed to store stream history data (Postgresql is recommended). Database can be on the same server, or on separate servers.

## Backend server installation and update

To install backend server:

1. Download current version [from this page](#)

Replace **XXX** with an actual builds number

```
wget
https://flashphoner.com/downloads/builds/WCS_OAM/5.2/FlashphonerWebCallServe
1.XXX.tar.gz
```

2. Unpack archive

```
tar -xvzf FlashphonerWebCallServerOAM-1.XXX.tar.gz
```

3. Go to folder from archive

```
cd FlashphonerWebCallServerOAM-1.xxx
```

4. Start installation script and follow its instructions

```
./install.sh
```

Backend server update should be done the same way.

## Installation to a different Java versions

JDK 12 or 14

The following settings should be removed from `wcsoam-core.properties` file

```
-XX:+UseConcMarkSweepGC  
-XX:+PrintGCDateStamps  
-XX:+PrintGCDetails
```

The following setting

```
-Xloggc:/usr/local/FlashphonerWebCallServer/logs/gc-core-
```

should be replaced by

```
-Xlog:gc*:/usr/local/FlashphonerWebCallServer/logs/gc-core-:time
```

## JDK 15

In addition to setting changing for JDK 12 or 14, the following settings should be removed from `wcsoam-core.properties` file

```
-XX:+UseCMSInitiatingOccupancyOnly  
-XX:CMSInitiatingOccupancyFraction=70
```