

How to install Apache Karaf 3.0.1 as a daemon



In this tutorial I show you how you can install Apache Karaf 3.0.1 as a daemon (service) on your linux system.

Download and install Apache Karaf 3.0.1

First go to the location where you want to install Apache Karaf 3.0.1.

```
$ cd /usr/share
```

Then download the newest Karaf Binary Distribution

```
$ sudo wget http://mirror.switch.ch/mirror/apache/dist/karaf/3.0.1/apache-karaf-3.0.1.tar.gz
```

In the next step we unpack the gz file.

```
$ sudo tar -zxvf apache-karaf-3.0.1.tar.gz
```

Now you can start the karaf with

```
$ cd apache-karaf-3.0.1/bin $ sudo ./karaf
```

If you can see the following lines, then karaf started successfully and you can use the karaf console for the next steps.

```
karaf: JAVA_HOME not set; results may vary
_____ / //_/_____ / / / _____ / / ,
```

Now Karaf is running but not as a Linux Daemon, as soon as you leave the Karaf console with

```
'' , 'system:shutdown' or 'logout'
```

the Karaf will stop. In the next step we'll start Karaf as a Daemon for production use.

Apache Karaf 3.0.1 as a Daemon for production use

Fortunately Karaf has a feature to install Karaf as a daemon.

```
karaf@root(> feature:install service-wrapper
```

Afterwards check whether the feature service-wrapper has been installed correctly or not.

```
karaf@root(> feature:list | grep service-wrapper service-wrapper
          | 3.0.1          | x          | standard-3.0.1          |
Provide OS integration (alias to wrapper feature)
```

If you can see the char x then everything went fine. Now use the new command to install the service wrapper.

```
karaf@root(> wrapper:install Creating file: /usr/share/apache-karaf-3.0.1/bin/karaf-wrapper Creating file: /usr/share/apache-karaf-3.0.1/bin/karaf-service Creating file: /usr/share/apache-karaf-3.0.1/etc/karaf-wrapper.conf Creating file: /usr/share/apache-karaf-3.0.1/lib/libwrapper.so Creating file: /usr/share/apache-karaf-3.0.1/lib/karaf-wrapper.jar Creating file: /usr/share/apache-karaf-3.0.1/lib/karaf-wrapper-main.jar Setup complete. You may wish to tweak the JVM properties in the wrapper configuration file: /usr/share/apache-karaf-3.0.1/etc/karaf-wrapper.conf before installing and starting the service. RedHat/Fedora/CentOS Linux system detected: To install the service: $ ln -s /usr/share/apache-karaf-3.0.1/bin/karaf-service /etc/init.d/ $ chkconfig karaf-service --add To start the service when the machine is rebooted: $ chkconfig karaf-service on To disable starting the service when the machine is rebooted: $ chkconfig karaf-service off To start the service: $
```

```
service karaf-service start          To stop the service:          $ service k
araf-service stop                    To uninstall the service :      $ chkconfig kar
af-service --del                      $ rm /etc/init.d//usr/share/apache-
karaf-3.0.1/bin/karaf-service
```

As written above install the service on Linux. First create the service symbolic link.

```
sudo ln -s /usr/share/apache-karaf-3.0.1/bin/karaf-
service /etc/init.d/
```

Add the new service to the chkconfig management.

```
sudo chkconfig karaf-service --add
```

Tell chkconfig to start the karaf-service on boot time.

```
sudo chkconfig karaf-service on
```

If you start karaf with

```
sudo service karaf-service start
```

then you can read:

```
Startng karaf...
```

Now check whether the karaf is really running.

```
$ ps -ef | grep karaf devteam 7685 4013 0 14:08 pts/0 00:00:
00 grep karaf
```

On my machine the karaf isn't running, the question is why? Fortunately there is a wrapper log file available with more information.

```
$ cat /usr/share/apache-karaf-3.0.1/data/log/wrapper.log STATUS |  
wrapper | 2014/09/04 14:02:50 | --> Wrapper Started as Daemon STATUS  
| wrapper | 2014/09/04 14:02:51 | Launching a JVM... ERROR | wrapper  
| 2014/09/04 14:02:51 | Unable to start JVM: No such file or  
directory (2) ERROR | wrapper | 2014/09/04 14:02:51 | JVM exited  
while loading the application. STATUS | wrapper | 2014/09/04 14:02:55  
| Launching a JVM... ERROR | wrapper | 2014/09/04 14:02:55 | Unable  
to start JVM: No such file or directory (2) ERROR | wrapper |  
2014/09/04 14:02:55 | JVM exited while loading the application.  
STATUS | wrapper | 2014/09/04 14:02:59 | Launching a JVM... ERROR |  
wrapper | 2014/09/04 14:02:59 | Unable to start JVM: No such file or  
directory (2) ERROR | wrapper | 2014/09/04 14:02:59 | JVM exited  
while loading the application. STATUS | wrapper | 2014/09/04 14:03:03  
| Launching a JVM... ERROR | wrapper | 2014/09/04 14:03:03 | Unable  
to start JVM: No such file or directory (2) ERROR | wrapper |  
2014/09/04 14:03:03 | JVM exited while loading the application.  
STATUS | wrapper | 2014/09/04 14:03:07 | Launching a JVM... ERROR |  
wrapper | 2014/09/04 14:03:07 | Unable to start JVM: No such file or  
directory (2) ERROR | wrapper | 2014/09/04 14:03:07 | JVM exited  
while loading the application. FATAL | wrapper | 2014/09/04 14:03:07  
| There were 5 failed launches in a row, each lasting less than 300  
seconds. Giving up. FATAL | wrapper | 2014/09/04 14:03:07 | There may  
be a configuration problem: please check the logs. STATUS | wrapper |  
2014/09/04 14:03:07 |
```