

# Administration Guide

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## Community 1.5.1 release

This guide provides instructions for configuring and administering Jumbune Web Server and Jumbune Agent.

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## Introduction

This guide helps you to monitor and configure Jumbune Web Container and Jumbune Agent.

## Jumbune Container Administration

### Administering Web Container Daemon

Jumbune has an embedded Jetty web container. A daemon of Jetty Web server instance can be managed in the following ways:

- **Start Jetty Instance:** You can start the Jetty instance by running **bin/startWeb** script file in **\$JUMBUNE\_HOME /bin** folder. After starting the instance, you can verify the same by navigating to the web page with **<ip of Jumbune machine>:8080**.
- **Stop Jetty Instance:** You can stop the Jetty instance by running **bin/stopWeb** script file in **\$JUMBUNE\_HOME /bin** folder or by using **Ctrl+C** on the console running the server instance.
- **Restart Jetty Instance:** If the Jetty instance goes down, you can restart it by running the **bin/startWeb** script file in **\$JUMBUNE\_HOME /bin** folder.

### Administering Logging Service of Web Container

Logging is the process of capturing flow of events such as configuration errors, code flow, server malfunction, or failure that occurs when you run any module of Jumbune. By default, logging is enabled in Jumbune. You can view the server logs in the following location:

```
$JUMBUNE_HOME /Jumbune Logs > jumbune.log
```

### Configuring Logging Service of Web Container

Log levels decide the granularity of information that gets logged into the log file, from FATAL to DEBUG. The following levels are applied: FATAL, ERROR, WARN, INFO, and DEBUG. These log levels are hierarchically inclusive, i.e., if you set log level to DEBUG (the lowest level), your logs will contain all information in the log file.

**Default:** INFO

**Note:** To change the log level, change the log level present in the following location:

```
$JUMBUNE_HOME /resources > log4j2.xml
```

## Configuring the Debug Option for Developers

As a developer of Jumbune, you can debug the Java code by using the Debug Option specified in **\$Jumbune Home/bin/startWeb** script file and putting it in exec path mentioned in that file.

For example:

```
exec "$JAVA" -Xdebug Xrunjdwp:transport=dt_socket,address=<port
no> ,server=y,suspend=n -cp $CLASSPATH -
Dlog4j.configurationFile=${JUMBUNE_HOME}/resources/log4j2.xml -
jar $jetty --stop-port 9009 --stop-key stop $warpath
```

Restart the Jetty after configuring to instantiate the instance in Debug mode. You can debug your Java code by configuring the debug option in your IDE at the port mentioned in the above path.

## Configuring JVM Option

You can set JVM option like memory (for example as -Xmx1024m) by specifying this option in **\$JUMBUNE\_HOME/bin/startWeb** file.

```
exec "$JAVA" -Xmx1024m -cp $CLASSPATH -
Dlog4j.configurationFile=${JUMBUNE_HOME}/resources/log4j2.xml -
jar $jetty --stop-port 9009 --stop-key stop $warpath
```

## Running Jumbune Web Container on a different port

By default, the start port is configured on 8080. In that port is already utilized, then you need to the port to another available port. You can configure port change in **\$JUMBUNE\_HOME/bin/startWeb** file. For example, if you want to start Jumbune Web container on 8082 port,

```
exec "$JAVA" -server -cp $CLASSPATH -
Dlog4j.configurationFile=${JUMBUNE_HOME}/resources/log4j2.xml -jar $jetty --port
8082 --stop-port 9009 --stop-key stop $warpath
```

## Jumbune Agent Administration

### Managing the lifecycle of Jumbune Agent

A domain of Jumbune Agent can be instantiated through navigating to the `$JUMBUNE_HOME/agent-distribution` directory and following the steps mentioned below:

- Starting the Jumbune Agent : You can start the Jumbune Agent with the following command :

```
java -jar <Jumbune agent jar> <port no>
```

- Stop the Jumbune Agent: You can stop the agent by using **Ctrl+C** on the console running the agent instance.
- Restarting the Jumbune Agent : If unexpectedly agent crashes or goes down, you can restart it using the following command:

```
java -jar <Jumbune agent jar> <port no>
```

### Configuring the Logging Service of Jumbune Agent

The logging of the Jumbune Agent information is stored in **jumbuneagent.log** file at the following location: **\$JUMBUNE\_HOME/agent-distribution/**. You can set the logging of the agent to granular level with the following command:

```
java -jar <Jumbune agent jar> <port no> -verbose
```