

openolat LMS - JMeter Quick-Start

frentix GmbH Dokumentation

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	<i>TITLE :</i> openolat LMS - JMeter Quick-Start		
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

1	Environment	1
1.1	Apache Tomcat	1
1.2	OpenOLAT LMS	1
1.3	Resttool	1
1.4	JMeter	2
2	JMeter & JConsole	3
2.1	Download & Install	3
2.2	Modify Installation	3
2.3	Setup JSR223 Preprocessor	3
3	Running eAssessment Tests	5

Preface

This is JMeter quick start guide to run against OpenOLAT.

Your ISP may shut down your connection as running tests over internet. This is legitime to prevent denial of service attack.

Chapter 1

Environment

This chapter shows you what prerequisites are taken to successfully run JMeter loadtests against an existing OpenOLAT LMS server instance. Further an application called JConsole distributed with your JavaSE package. This quick start guide assumes your OpenOLAT instance is running on a Debian GNU/Linux server. Configuration may differ from specific distribution.

1.1 Apache Tomcat

Change the line containing *JAVA_OPTS* parameter.

```
JAVA_OPTS="-Djava.rmi.server.hostname=debian-openolat -Dcom.sun.management. ↵  
jmxremote -Dcom.sun.management.jmxremote.port=1099 -Dcom.sun.management. ↵  
jmxremote.ssl=false -Dcom.sun.management.jmxremote.authenticate=false"
```

1.2 OpenOLAT LMS

Set the given properties in your `olat.local.properties` to *true*. JMeter requires loadtest mode enabled. To generate users or import a course you need RESTful webservice enabled.

```
allow.loadtest.mode=true  
restapi.enable=true
```

1.3 Resttool

Configure `com/frentix/resttool.properties` that it fit your needs.

```
restconnection.host=192.168.1.70  
restconnection.port=80  
restconnection.protocol=http  
restconnection.contextpath=openolat-lms-8.4-SNAPSHOT  
restconnection.login=administrator  
restconnection.password=openolat  
generateuser.loginPrefix=jmeter_  
generateuser.firstnamePrefix=John_  
generateuser.surnamePrefix=JMeter_
```

1.4 JMeter

Within the GUI you should modify the following user defined variables:

- openolat LMS

Additionally you may configure the business path of the eAssessment test to run JMeter test against. Path is located within the following sampler:

- open eAssessment test

Chapter 2

JMeter & JConsole

In this chapter you get the instructions to make JMeter and JConsole running.

2.1 Download & Install

```
#!/bin/bash

cd ~/Downloads

# install openjdk
apt-get install openjdk-7-jdk

# download JMeter
wget -c http://mirror.switch.ch/mirror/apache/dist//jmeter/binaries/apache-jmeter-2.9.tgz

# unpack JMeter
tar -xzf apache-jmeter-2.9.tgz
```

2.2 Modify Installation

```
#!/bin/bash

cd ~/Downloads

# download groovy-all JAR
wget -c http://repol.maven.org/maven2/org/codehaus/groovy/groovy-all/2.1.1/groovy-all ↵
-2.1.1.jar

# copy groovy-all to JMeter classpath
cp groovy-all-2.1.1.jar apache-jmeter-2.9/lib
```

2.3 Setup JSR223 Preprocessor

You have to change the absolute path to the appropriate java snippets located within your loadtest directory. The following preprocessors were affected

- fill in eAssessment answers

Chapter 3

Running eAssessment Tests

You may invoke the loadtests as following:

```
#!/bin/bash

export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64

cd ~/Downloads/qti_test

# invoke JMeter
../apache-jmeter-2.9/bin/jmeter -t loadtest.jmx
```

It is assumed that your loadtest is located in ~/Downloads/qti_test directory.