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## Fault Tolerance Engine Installation Guide

*Activity 4: Basic Service Operation*

*WP 4.2: Cloud Runtime Optimization*

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**Dissemination Level**

<b>PU</b>	Public	<b>X</b>
<b>PP</b>	Restricted to other programme participants (including the Commission)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission)	



## Version History

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## 1 Introduction

This document includes the installation guide for the software component Fault Tolerance Engine.

Section 2 includes information about the current release of this component, its platforms supported as well as its software and dependency requirements. Moreover, Section 2 details the required steps to install it in the system and test it.

### 1.1 Glossary of Acronyms

Table 1- Acronyms table

Acronym	Definition
EMOTIVE	Elastic Management Of Tasks In Virtualized Environments
GPL	General Public License
JAR	Java ARchive
REST	Representational State Transfer
WAR	Web Application Archive

## 2 Fault Tolerance Engine Installation Guide

### 2.1 Release information

Table 2 - Release information

Component Name	Release Number	Release Date
<b>FaultToleranceEngine</b>	1.0-SNAPSHOT	2013-04-1

### 2.2 Platforms Supported

The component is platform independent.

### 2.3 Software Pre-requisites and Dependencies

Table 3 - Software dependencies

Product	Version	Licence
<b>CloudOptimizerRESTClient</b>	LATEST (artifactory)	GNU Lesser General Public License
<b>MonitoringInfrastructure REST Client</b>	LATEST (artifactory)	GNU Lesser General Public License
<b>Java</b>	1.6	GPL
<b>Java-server</b>	1.6	GPL
<b>Java-core</b>	1.6	GPL
<b>JAXB API</b>	2.1	GPL
<b>Apache Tomcat</b>	6.0.32 or higher	Apache License Version 2
<b>Log4j</b>	1.2.14	Apache License Version 2

### 2.4 Installation Instructions

This component is distributed as a web application (WAR file). The only installation step needed is to deploy such file into an application server.

Edit the next properties file: `/opt/optimis/etc/FaultToleranceEngine/config.properties`. Next are described the properties:

- `config.ipvm_host`, `config.ipvm_port`
  - The hostname and port of the IPVM host (where CO is located). Usually is `localhost:8080`
- `config.drp_host`, `config.drp_port`
  - The hostname and port of the EMOTIVE/OpenNebula/OpenStack endpoint.
- `config.rm_host`, `config.rm_port`

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- The hostname and port of the Resource Manager component
  - config.aggregator\_host, config.aggregator\_port
    - The host and port of the Monitoring Manager (usually localhost:8080)
  - config.aggregator\_url
    - The path of the MonitoringManager URL (usually MonitoringManager/QueryResources)

## 2.5 Getting started

### 2.5.1 Using the Software

See user manual.

### 2.5.2 Testing the Software

See user manual.

### 2.5.3 Configuration

N/A

## 2.6 FAQ

N/A