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Repose

Operations Handbook
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▶ Repose ◀ Operations Handbook

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▶ Rackspace Cloud 4

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v1.0

▶Repose 4

2013-04-29

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Abstract:

This document is intended for systems administrators interested in configuring and installing PREstful PrOxy Service Engine 4.

Revision:

 I uploaded the document to match Repose's updated xmlns and config. file name

Revision:

▶2012-02-14 4

Revision:

▶2012-01-30 ◀

· Clarified current limitation to HTTP logging.

Revision:

Initial release.

Chapter 1 : About This Document

The purpose of this handbook is to facilitate the installation of operation guidelines. This handbook is not a tutorial. It provides basic information that will help you understand PRepose , but you must adapt this information to suit your own configuration.

Chapter 2 : Installation Introduction

▶Repose ◀ also offers a quick ▶ non-production ◀ method of installing informational use only. Follow the link to the Repose Sandbox to begin using this method:

▶ Repose ◀ for informational use only. Follow the link to the Repose Sandbox to begin using this

The Proxy Server (Valve) deployment strategy runs PRepose as a standalone proxy server which will sit between the requester and the origin service. This deployment strategy runs PRepose on a different port or a different host than the origin service. Proxy Server (Valve) is a .jar file.

▶ ROOT.war 4

PRepose ∮ will run inside a third party servlet container (e.g. tomcat or glassfish).

This strategy allows PRepose ∮ to run on the same container as the origin service.

The ROOT.war artifact is a Web application ARchive (WAR). It contains all the components needed to install PRepose into a running application container. One of these components is a default web.xml that can start up PRepose in the standard configuration model.



Note:

See \$\int \frac{1}{2} \rightarrow \left{\left} \right{\left{\left} \left{\left{\left} \left{\left} \right{\left{\left} \left{\left{\left} \right{\left{\left} \right{\right} \right{\left{\left} \right{\right} \right{\left{\left{\left} \rightarrow \righta

Section 2 . 1 : Prerequisites for Repose

Installation

Before getting started, make sure you have the following installed on your local machine:

Tomcat 7 or higher(or any Servlet Spec 3- Compliant Container) running the ROOT.war deployment

₫, if

Section 2 . 2 : Installing Repose

Repose can either be installed through a Linux package manager (RPM or Debian) or downloaded from GitHub. As previously mentioned, you can choose to install Repose as either ROOT.war in an existing servlet container or the Valve Proxy server. Choose of the following installations:

Installing ROOT.war From a Linux Package Manager (RPM)

1

 The instructions for installing ROOT.war from RPM are located at RPM installing ROOT.war

▶Installing Valve Proxy Server from a Linux Package Manager (RPM or Debian) ◀

- The instructions for installing Valve Proxy Server from RPM are located at RPM Installing Valve Proxy Server.
- The instruction for installing Valve Proxy Server from Debian are located at Debian Installing Valve Proxy Server.

▶Installing Repose from GitHub 4

Repose can be downloaded from ******** and built with Maven. Once built, the following binaries are created for the different installations:

- PROOT.war 4 The ROOT.war is built at project-set/core/web-application/target/ROOT.war.
- Valve Proxy Server 4 The Valve jar file is located at projectset/core/valve/target/repose-valve.jar.

Section 2 . 3 : Paths for Default Installation

Directories

The directories below are provided during the installation process. These directories below are provided during the installation process. These directories below are provided during the installation process. These directories by following the appropriate paths:

- Repose ROOT.war is installed in
 /var/lib/tomcat7/webapps.

The PRepose default config. directory is set to Petc/repose dand can be customized in the following methods:

- For the ROOT.war Installation, the config directory can be set through the web.xml file in the ROOT.war. See Starting and Stooping Repose for more information.

The following directories can be customized using the container.cfg.xml if you do not want to use the default.

- Repose deployment folder where ear files get exploded is /var/repose/deployment.
- Repose ear files are installed in para

 \(\bar{\text{yusr/share/repose/filters.}} \)

*****Click to learn more about Repose Directories*****
para

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Section 2 . 4 : Required Configurations for

Deployment

Below are files of the default configuration settings that are a part of this installation. These default files are prequired to run property leads of the default configuration settings that are a part of this installation. These default files are property leads of the default configuration settings that are a part of this installation.

- Edit the default container.cfg.xml that is provided by the installation to make sure Repose knows where to look for component artifacts and where to deploy them.

Click ***here*** to learn more about Repose Configurations



Important:

To START or STOP Repose using Valve proxy Server follow: ****

To START or STOP Repose using a ROOT.war Configuration follow: ****

Section

2 . 5 : Testing Repose

Send a request to verify that Repose is running: bcurl localhost:8887 - v 4 Verify Response returns response code 200, and that the "Via" header containing the string "Repose" shows which version of Repose you are running.

For example, part of your response should be in the following form:

HTTP/1.1 200 OK

Content-Type: text/plain

Via: 1.1 Repose (Repose/2.7.1-SNAPSHOT)

x-request-id: somevalue

Repose is running successfully when you send the above request and you are able

to run the end service.



Tip:

Please look at the log files that are generated during the Starting of Repose to debug if you experience any issues.

Chapter 3 : Filters

▶ How To Add Filters 4

You can add filters to Repose using the System Model Configuration File. See the system-model.cfg.xml description of example below. The filter name used in the system-model.cfg.xml are defined in ** web-fragment.xml**

System Model Configuration File

```
samples/repose-translation-system-model.cfg.xml

<system-model xmlns="http://docs.rackspacecloud.com/repose/system-model/v2.0">

<repose-cluster id="repose-service">

<nodes>

<node id="proxy-n01" hostname="localhost" http-port="8088" />

</nodes>

<filters>

<filters>

<filters>

<filters>

<destinations>
```

Chapter 4: Further Information

▶ More About Directories

Upon successful completion of the Repose installation the following default directories are made accessible. These default directories are described below:

Default Directory Model

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Directory	Description	
Artifact Directory	Stores all the artifacts that Repose has been configured to use. Default Location: //User/share/repose/filters	
	4	
Configuration Directory	Stores all of Repose's XML configurations in this directory. The ROOT.war deploy assumes this directory is	
	located in	
	system configuration locations. Default Location:	
	/etc/repose 4	
Deployment	Default location: \(\bar{\partial} / \text{var/repose/deployment} \)	4
Directory	Repose uses the deployment directory to copy deployed	
	versions of the artifacts it has been configured to use. Define a deployment directory as a writable location.	
Logs	This stores System logs and HTTP logs.	
Operating System	Dedicate a User and Group to Repose to improve isolation	
User and Group Configuration	and selection of Repose's permissions. Be sure the Repose User and Group can write to the file system as well as read configurations stored in the file system.	



Note:

All consumable artifacts meant for deployment through Repose must conform to the Java Platform, Enterprise Edition (JEE6)

specification for Enterprise ARchive (EAR) files.

para

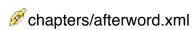
More About Configurations 4 The following table lists the configuration files that are required for Repose installation and a description of the required file.

Required Configuration Files

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Filename	Description
System Model	The System Model configuration outlines the entire deployment layout for the service cluster. Repose must be aware of this in order to configure itself and correctly coordinate routing if necessary. The System Model also lets Repose know where the other Repose nodes reside. Using this information, Repose can coordinate its own clustering to help load balance or share data among nodes that share common filters.
Container	The container tells the system where to look for component artifacts and where to deploy them.





Chapter 5 : Afterword

The information in this document is provided in good faith but without any warranty. Although we have tested the sample code included here, results on your system may be different.

We hope you enjoy using ▶ Repose 4!

Section 5 . 1 : Feedback

synch human-readable contact info here with feedbackemail in pom.xml, telling HashOver whom to notify about comments (HashOver doesn't work until PHP works on the openrepose.org server)

If you find errors in this document or have suggestions about how to improve it, please let us know. You can contact the document maintainer directly at rose.coste@rackspace.com 4.

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Section 5 . 2 : References

In the

| Repose | bibliography | we've listed, summarized, and linked to reading material that explains | Repose | and related ideas. To understand | Repose | more completely, you may wish to examine our bibliography at | http://wiki.openrepose.org/display/REPOSE/References | 4.