

GlassFish v3 Scripting Support Test Plan

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1. Introduction

This one pager describes test spec for **Ruby on Rails** and **Grails** supported by GlassFish v3.

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2. JRuby Testing Scenarios

2.1. GlassFish V3 Rails Sniffer and Connector:

Create JRuby helloworld application with controller/view and deploy the application to V3 with directory deployment. V3 should be able to detect the JRuby on Rails application and deploy successfully.

2.2 GlassFish V3 Rails Grizzly adapter:

Deploy the cookbook Jruby/Rails application. Testing the ability of receives requests/response from Grizzly layer directly and delegation of requests to Rails framework.

2.3. JRuby application deployment:

2.3.1. JRuby application directory deployment.

Deploy the cookbook Jruby/Rails application directly to V3 with directory deployment.

2.3.2. JRuby application war deployment.

Use warble to create a war file out of JRuby cookbook application and deploy to V3.

2.4. Scaffolding of JRuby application:

2.4.1. Create a JRuby bookstore application using Scaffolding of JRuby on Rails.

2.4.2. Test the validities of Scaffolding JRuby application.

Deploy the JRuby bookstore application and test the functionality of the app created from JRuby Scaffolding.

2.5. JRuby on Rails configuration with GF V3:

2.5.1. Pre-install JRuby on Rails

Pre-install JRuby on Rails and required gems (Rails and MySQL JDBC drivers) for JRuby testing.

2.5.2. JRuby IPS package for GlassFish Updatecenter

Use JRuby package from GlassFish Updatecenter. The JRuby release, bundled with required gems (Rails and MySQL JDBC drivers), is delivered in IPS package. This IPS bundle can be installed on existing GlassFish installation using GlassFish updatecenter tool. Testing the JRuby on Rails with the installation from Update Center.

2.5.3. Configuration of JRuby runtime pool

Test the configuration of JRuby runtime pool with admin CLI command.

2.6. AJAX based interactions:

Write an AJAX Rails application to test AJAX based interaction feature supported by JRuby/Rail on GlassFish.

2.7. Rails application HA support

2.7.1. Test the deployment of Rails application using HADB in HA environment.

2.7.2. Test in-memory replication with/without memcached.

3. Grails Testing Scenarios

3.1. Grails Production War with GFv3

Grails production war is generated with Grails provided scripts, and can be deployed to GlassFish. This is a baseline test.

The test case includes:

- Create Grails bookstore application by Grails provided groovy scripts,
- Package the application in production war by Grails provided groovy script,
- Deploy the war to GlassFish with GFv3 provided asadmin command,
- Use web client to verify application work correctly.

3.2. Grails Native Deployment by GFv3 Script

The GFv3 provided groovy script carries native deployment.

This native deployment allows dynamic change and avoids the war package for fast development.

The test case includes:

- Create Grails bookstore application by Grails provided groovy scripts,
- Deploy non-packaged application to GlassFish by a GFv3 provided groovy script,
- Modify application in its development, but not deployment environment,
- Use web client to verify the dynamic change without re-deployment.

4. Document Review

4.1 GlassFish JRuby on Rails guide.

4.2 Quick Starting guide

5. Reference Documents

5.1 One Pager: Scripting support in GlassFish v3:

<http://wiki.glassfish.java.net/attach/V3FunctionalSpecs/scripting-onepager.html>
