Readme for IBM® Platform Symphony, IBM Spectrum Symphony multicluster RFE 110932

Readme file for: IBM Platform Symphony, IBM Spectrum Symphony multicluster
Product/Component Release: 7.1 Fix Pack 1, 7.1.2
Fix ID: sym-7.1-build471398-welfg
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This interim fix upgrades the following components in IBM Platform Symphony 7.1 Fix Pack 1:

- Upgrades the IBM JRE version to 8.0.5.0.

- Upgrades the Apache Tomcat version to 8.5.23.

This interim fix also upgrades the IBM JRE version into 8.0.5.0 in IBM Spectrum Symphony multicluster 7.1.2.

Scope

Before you install this update in your cluster, note the following requirements:

Applicability

Operating system	Linux x86_64 management hosts
Product version	IBM Platform Symphony 7.1 Fix Pack 1 IBM Spectrum Symphony multicluster 7.1.2

Installation and configuration

Follow the instructions in this section to download and install this update in your cluster.

1. Prerequisites

IBM Platform Symphony 7.1 Fix Pack 1 must be installed on Linux x86_64 hosts in your cluster.

IBM Spectrum Symphony multicluster 7.1.2 must be installed on Linux x86_64 hosts in your cluster.

2. Packages

This interim fix includes the following installation packages:

Package to download	Description
`symSetup_jre8sr5_linux-64_build471398.tar.gz`	Package for JRE 8.0.5.0
`sym7.1_lnx26-lib23-x64_build471398.tar.gz`	Platform Symphony package for Tomcat 8.5.23
`apache-tomcat-8.5.23.tar.gz` Download the package from the following location: http://archive.apache.org/dist/tomcat/tomcat-8/v8.5.23/bin/	General package for Tomcat 8.5.23

3. Installation

Follow these steps to install this interim fix on hosts in your Symphony cluster:

Before installation

a. Log on to the master host as the cluster administrator and stop the following services:

```
$ egosh user logon -u Admin -x Admin

$ egosh service stop WEBGUI plc purger derbydb
```

b. Log on to each host and back up the JRE folder under `$EGO_TOP/jre/3.1/linux-x86_64/`.

```
$ cp -rf $EGO_TOP/jre/3.1/linux-x86_64/ $EGO_TOP/jre/3.1/linux-
x86_64.ORG
```

c. Log on to each management host and back up the following files:

```
$EGO_TOP/gui/3.1/tomcat/

$EGO_CONFDIR/../../gui/conf/catalina.policy

$EGO_CONFDIR/../../gui/conf/catalina.properties

$EGO_CONFDIR/../../gui/conf/server.xml

$EGO_TOP/gui/ego/3.1/platform/WEB-INF/web.xml

$EGO_TOP/gui/is/7.1/isgui/WEB-INF/web.xml

$EGO_TOP/gui/perf/3.1/perfgui/WEB-INF/web.xml

$EGO_TOP/gui/soam/7.1/soamgui/WEB-INF/web.xml

$EGO_TOP/gui/soam/7.1/symgui/WEB-INF/web.xml
```

Installation

a. Log on to each host as the cluster administrator.

b. Remove the files in the existing JRE folder and extract the interim fix package to the JRE folder on each host:

```
> rm -rf $EGO_TOP/jre/3.1/linux-x86_64/*

> tar zxfo symSetup_jre8sr5_linux-64_build471398.tar.gz -C
$EGO_TOP/jre/3.1/linux-x86_64
```

c. Copy the `apache-tomcat-8.5.23.tar.gz` package to a temporary folder and decompress the package:

```
> cp apache-tomcat-8.5.23.tar.gz /tmp

> tar -zxvf apache-tomcat-8.5.23.tar.gz

> rm -rf apache-tomcat-8.5.23/conf/

> rm -rf apache-tomcat-8.5.23/work/

> rm -rf apache-tomcat-8.5.23/logs/
```

d. Copy the Tomcat folder to each management host:

```
> rm -rf $EGO_TOP/gui/3.1/tomcat

> cp -rf apache-tomcat-8.5.23 $EGO_TOP/gui/3.1/tomcat
```

e. On each management host, copy the `sym7.1_lnx26-lib23-x64_build471398.tar.gz` package and decompress it:

```
> tar zxfo sym7.1_lnx26-lib23-x64_build471398.tar.gz -C $EGO_TOP
```

   a) If you ran the "`egoconfig mghost shared_dir`" command during installation to set up a shared location for configuration files, ensure that the configuration file is changed in the shared directory:

```
> cp $EGO_TOP/gui/conf/catalina.policy
$EGO_CONFDIR/../../gui/conf/catalina.policy

> cp $EGO_TOP/gui/conf/catalina.properties
$EGO_CONFDIR/../../gui/conf/catalina.properties

> cp $EGO_TOP/gui/conf/server.xml
$EGO_CONFDIR/../../gui/conf/server.xml
```

    b) If you modified the `server.xml` configuration file for details such as the GUI service port, manually redo those changes:

```
$EGO_CONFDIR/../../gui/conf/server.xml
```

f. Edit the `web.xml` files to add the following configuration:

    a) Edit each of the following files:

```
$EGO_TOP/gui/ego/3.1/platform/WEB-INF/web.xml

$EGO_TOP/gui/is/7.1/isgui/WEB-INF/web.xml

$EGO_TOP/gui/perf/3.1/perfgui/WEB-INF/web.xml

$EGO_TOP/gui/soam/7.1/symgui/WEB-INF/web.xml

$EGO_TOP/gui/soam/7.1/soamgui/WEB-INF/web.xml
```

    b) Find the "`<servlet-name>dwr-invoker</servlet-name>`" line in the "`</servlet>`" section.

    c) Add the following configuration:

```
<init-param>
     <param-name>crossDomainSessionSecurity</param-name>
     <param-value>false</param-value>
</init-param>
```

For example:

```
<servlet>
    <servlet-name>dwr-invoker</servlet-name>
    <servlet-class>org.directwebremoting.servlet.DwrServlet</servlet-class>
        <init-param>
            <param-name>debug</param-name>
            <param-value>true</param-value>
        </init-param>
        <init-param>
            <param-name>crossDomainSessionSecurity</param-name>
            <param-value>false</param-value>
        </init-param>
</servlet>
```

g. Delete all subdirectories and files in the GUI work directory:

```
> rm -rf $EGO_TOP/gui/work/*
```

h. Launch your browser and clear the browser cache.

i. Start the following services:

```
> egosh service start WEBGUI plc purger derbydb
```

Verification

a. Run the `java -version` command to verify the installation. For example:

```
> java -version

java version "1.8.0_144"
Java(TM) SE Runtime Environment (build 8.0.5.0 - pxa6480sr5-
20170905_01(SR5))
IBM J9 VM (build 2.9, JRE 1.8.0 Linux amd64-64 Compressed References
20170901_363591 (JIT enabled, AOT enabled)
J9VM - d56eb84
JIT  - tr.open_20170901_140853_d56eb84
OMR  - b033a01)
JCL - 20170823_01 based on Oracle jdk8u144-b01
```

b. In the `$EGO_TOP/gui/logs/catalina.out` file, check whether the GUI start version indicates version 8.5.23:

```
INFO: Server version:        Apache Tomcat/8.5.23
```

Follow these steps to install this interim fix on hosts in your Symphony multicluster:

Before installation

a. Log on to the master host as the cluster administrator and stop the WEBGUI service:

```
$ egosh user logon -u Admin -x Admin
```

```
$ egosh service stop WEBGUI
```

b. Log on to master host and back up the JRE folder under `$EGO_TOP/jre/3.4/linux-x86_64/`.

```
$ cp -rf $EGO_TOP/jre/3.4/linux-x86_64/ $EGO_TOP/jre/3.4/linux-
x86_64.ORG
```

Installation

a. Log on to the master host as the cluster administrator.

b. Remove the files in the existing JRE folder and extract the interim fix package to the JRE folder on master host:

```
> rm -rf $EGO_TOP/jre/3.4/linux-x86_64/*
```

```
> tar zxfo symSetup_jre8sr5_linux-64_build471398.tar.gz -C
$EGO_TOP/jre/3.4/linux-x86_64
```

c. Delete all subdirectories and files in the GUI work directory:

```
> rm -rf $EGO_TOP/gui/workarea/*
```

d. Launch your browser and clear the browser cache.

e. Start the WEBGUI service:

```
> egosh service start WEBGUI
```

Verification

Run the `java -version` command to verify the installation. For example:

```
> java -version

java version "1.8.0_144"
Java(TM) SE Runtime Environment (build 8.0.5.0 - pxa6480sr5-
20170905_01(SR5))
```

```
       IBM J9 VM (build 2.9, JRE 1.8.0 Linux amd64-64 Compressed References
       20170901_363591 (JIT enabled, AOT enabled)
       J9VM - d56eb84
       JIT  - tr.open_20170901_140853_d56eb84
       OMR  - b033a01)
       JCL - 20170823_01 based on Oracle jdk8u144-b01
```

Uninstallation

Follow these instructions to uninstall this enhancement in your symphony cluster, if required:

a. Log on to the master host as the cluster Administrator and stop the following services:

```
$ egosh user logon -u Admin -x Admin
```

```
$ egosh service stop WEBGUI plc purger derbydb
```

b. Log on to all hosts in the cluster as cluster administrator and restore the JRE folder from your backup.

```
$ rm -rf $EGO_TOP/jre/3.1/linux-x86_64/*
```

```
$ cp -rf $EGO_TOP/jre/3.1/linux-x86_64.ORG/* $EGO_TOP/jre/3.1/linux-x86_64
```

c. On management hosts, remove the Tomcat folder, which was introduced by this fix:

```
> rm -rf $EGO_TOP/gui/3.1/tomcat
```

d. On each management host, restore the following folders and files from your backup:

```
$EGO_TOP/gui/3.1/tomcat
```

```
$EGO_CONFDIR/../../gui/conf/catalina.policy
```

```
$EGO_CONFDIR/../../gui/conf/catalina.properties
```

```
$EGO_CONFDIR/../../gui/conf/server.xml
```

```
$EGO_TOP/gui/ego/3.1/platform/WEB-INF/web.xml
```

```
$EGO_TOP/gui/is/7.1/isgui/WEB-INF/web.xml
```

```
$EGO_TOP/gui/perf/3.1/perfgui/WEB-INF/web.xml
```

```
$EGO_TOP/gui/soam/7.1/soamgui/WEB-INF/web.xml
```

```
$EGO_TOP/gui/soam/7.1/symgui/WEB-INF/web.xml
```

e. Delete all subdirectories and files in the GUI work directory:

```
> rm -rf $EGO_TOP/gui/work/*
```

f. Launch your browser and clear the browser cache.

g. Start the following services:

```
> egosh service start WEBGUI plc purger derbydb
```

Follow these instructions to uninstall this enhancement in your symphony multicluster, if required:

a. Log on to the master host as the cluster Administrator and stop the WEBGUI service:

```
$ egosh user logon -u Admin -x Admin
```

```
$ egosh service stop WEBGUI
```

b. Log on to master hosts in the multicluster as cluster administrator and restore the JRE folder from your backup.

```
$ rm -rf $EGO_TOP/jre/3.4/linux-x86_64/*
```

```
$ cp -rf $EGO_TOP/jre/3.4/linux-x86_64.ORG/* $EGO_TOP/jre/3.4/linux-x86_64
```

c. Delete all subdirectories and files in the GUI work directory:

```
> rm -rf $EGO_TOP/gui/workarea/*
```

d. Launch your browser and clear the browser cache.

e. Start the WEBGUI service:

```
> egosh service start WEBGUI
```

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