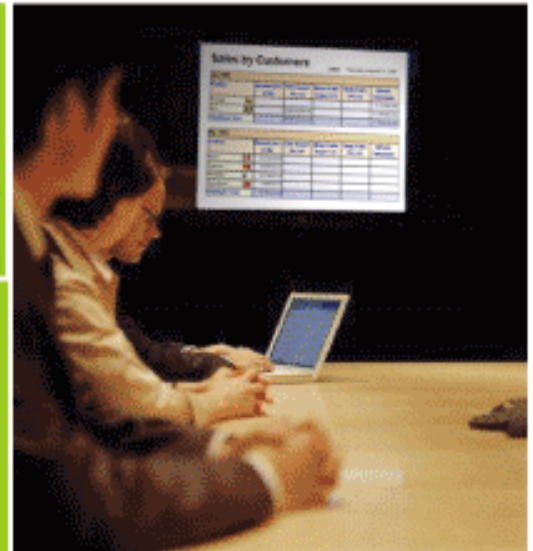# ELIXIR REPERTOIRE 7
Integrated Business Intelligence Suite

Intelligence On Demand

Integrated
Business Intelligence
Suite

Enabling the Intelligent
Enterprise

Installing Elixir Repertoire on Solaris 10

Elixir Technology

www.elixirtech.com

Table of Contents

System Requirements

Note: This guide is done up based on Elixir Repertoire 7.0.1 Professional/Server release. Usually minor releases will not have any change in the installation process.

Installation

- Professional (Recommended minimum configuration)
    - 140MB hard disk space:
    - 256MB RAM

- Server (Recommended minimum configuration
    - 140MB hard disk space:
    - 512MB RAM

- Sun Java JDK 1.5.0_11

- Elixir Repertoire
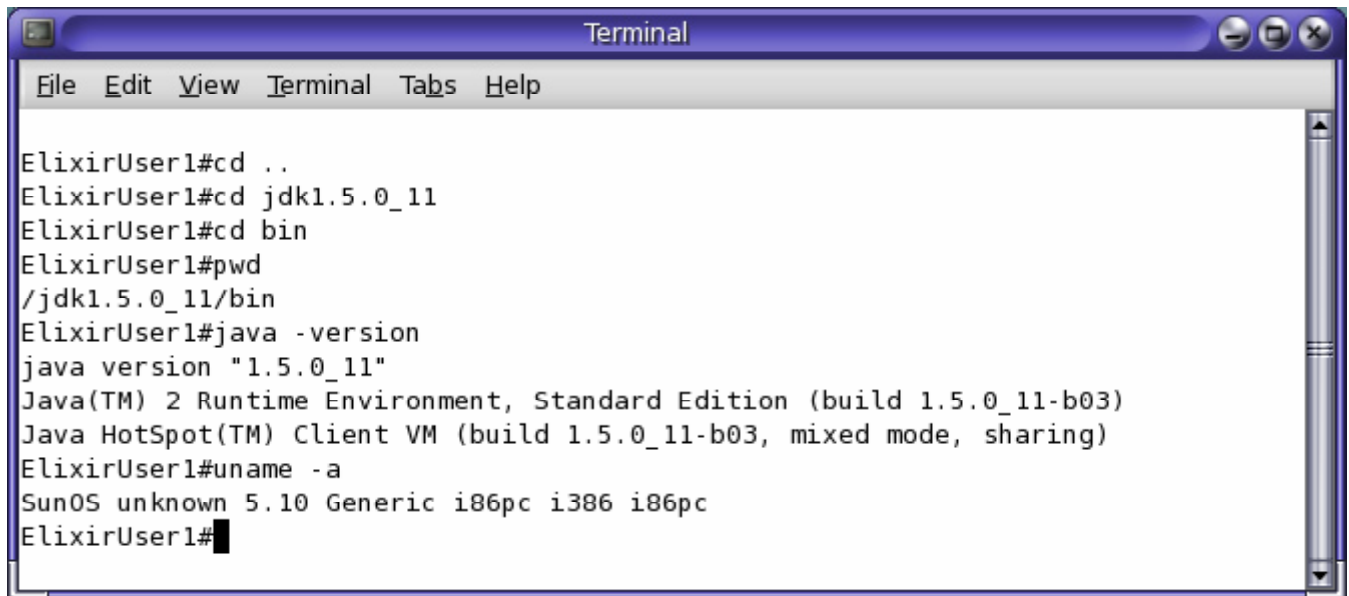   - Elixir Repertoire Professional
    - Elixir Repertoire Server
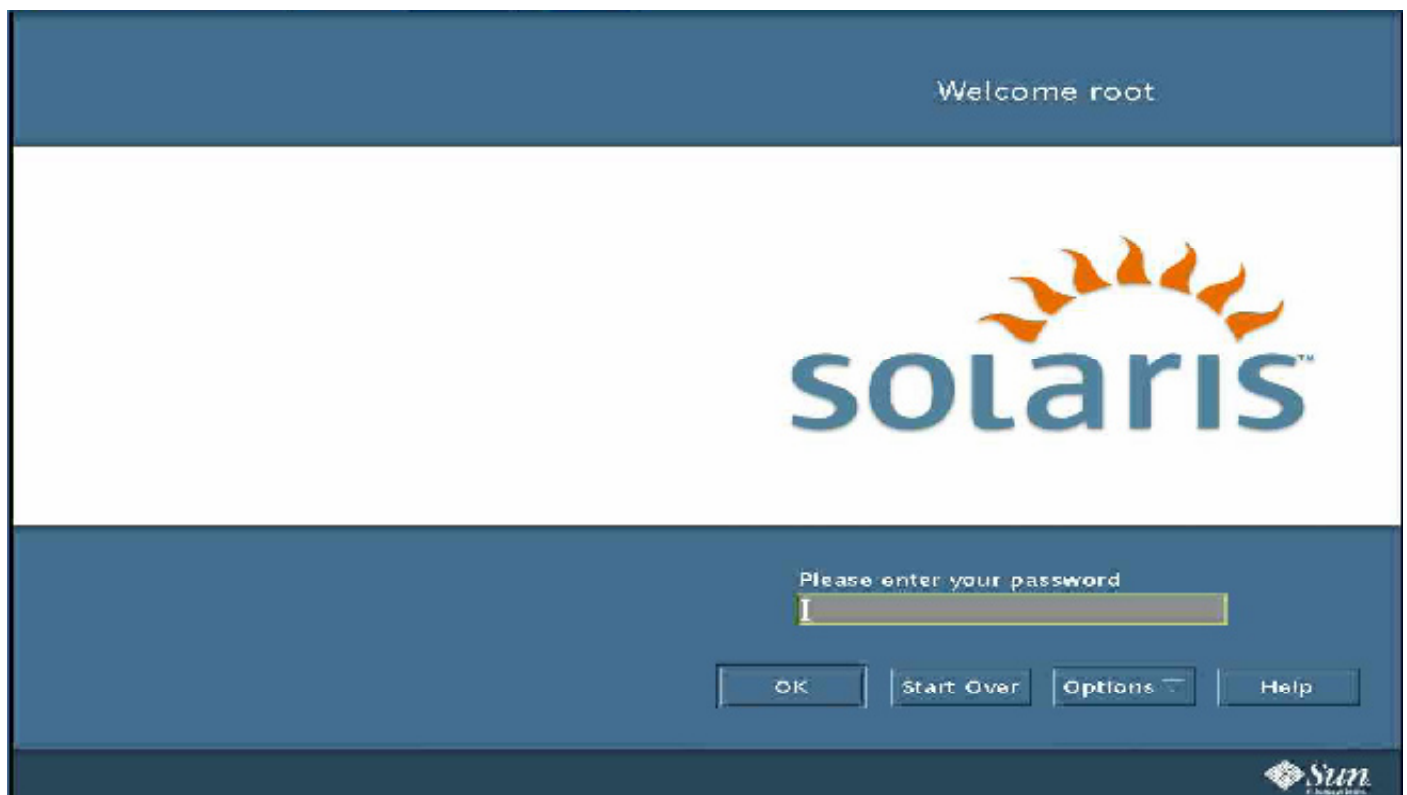
System Information

You can verify the java version on your system by testing it in the console by entering

java –version

The OS version can be determined by entering

uname -a

```
ElixirUser1#cd ..
ElixirUser1#cd jdk1.5.0_11
ElixirUser1#cd bin
ElixirUser1#pwd
/jdk1.5.0_11/bin
ElixirUser1#java -version
java version "1.5.0_11"
Java(TM) 2 Runtime Environment, Standard Edition (build 1.5.0_11-b03)
Java HotSpot(TM) Client VM (build 1.5.0_11-b03, mixed mode, sharing)
ElixirUser1#uname -a
SunOS unknown 5.10 Generic i86pc i386 i86pc
ElixirUser1#
```
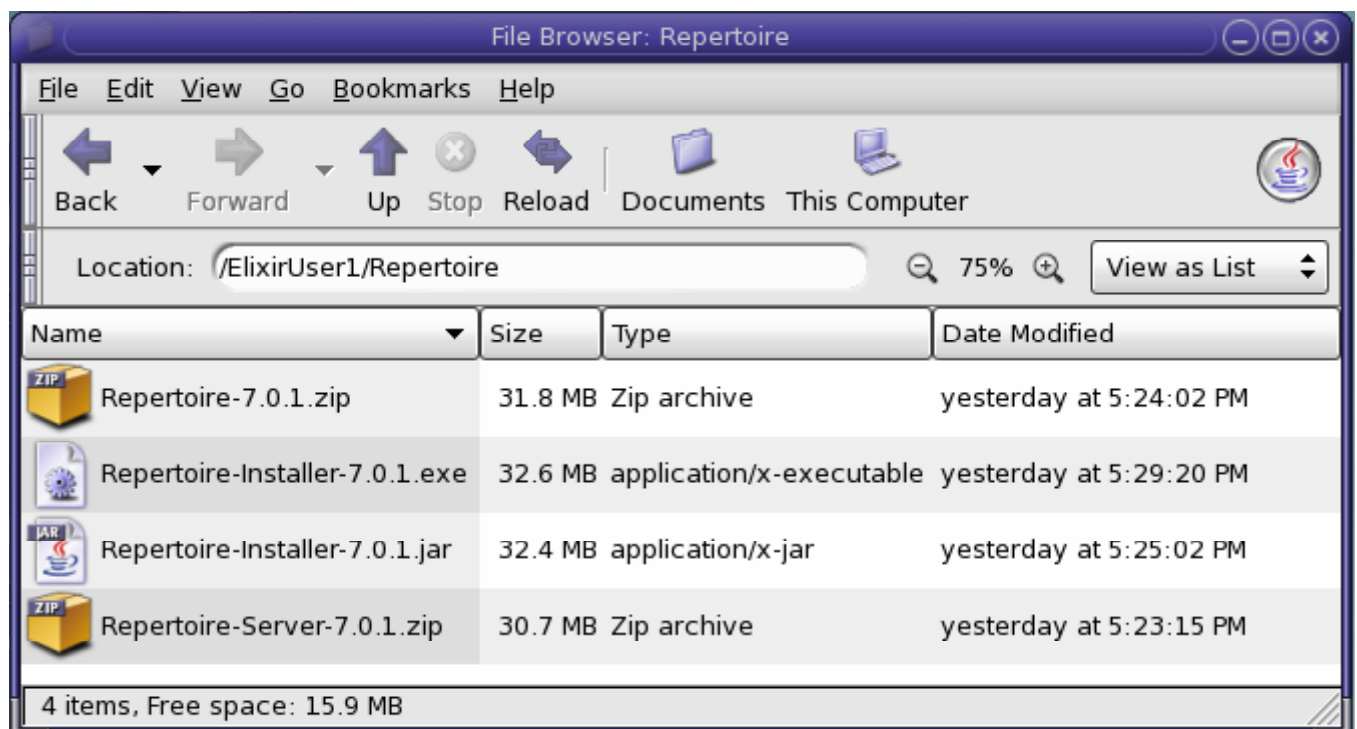
Setup Information

Elixir Repertoire Professional/Server is deployed in /ElixirUser1/Repertoire/ directory.

You can choose to install Elixir Repertoire Professional using either the Repertoire-7.0.1.zip or Repertoire-Installer-7.0.1.jar. For Elixir Repertoire Server installation, use Repertoire-Server-7.0.1.zip.

File Browser: Repertoire

File   Edit   View   Go   Bookmarks   Help

Back   Forward   Up   Stop   Reload   Documents   This Computer

Location: /ElixirUser1/Repertoire   75%   View as List

Name	Size	Type	Date Modified
Repertoire-7.0.1.zip	31.8 MB	Zip archive	yesterday at 5:24:02 PM
Repertoire-Installer-7.0.1.exe	32.6 MB	application/x-executable	yesterday at 5:29:20 PM
Repertoire-Installer-7.0.1.jar	32.4 MB	application/x-jar	yesterday at 5:25:02 PM
Repertoire-Server-7.0.1.zip	30.7 MB	Zip archive	yesterday at 5:23:15 PM

4 items, Free space: 15.9 MB

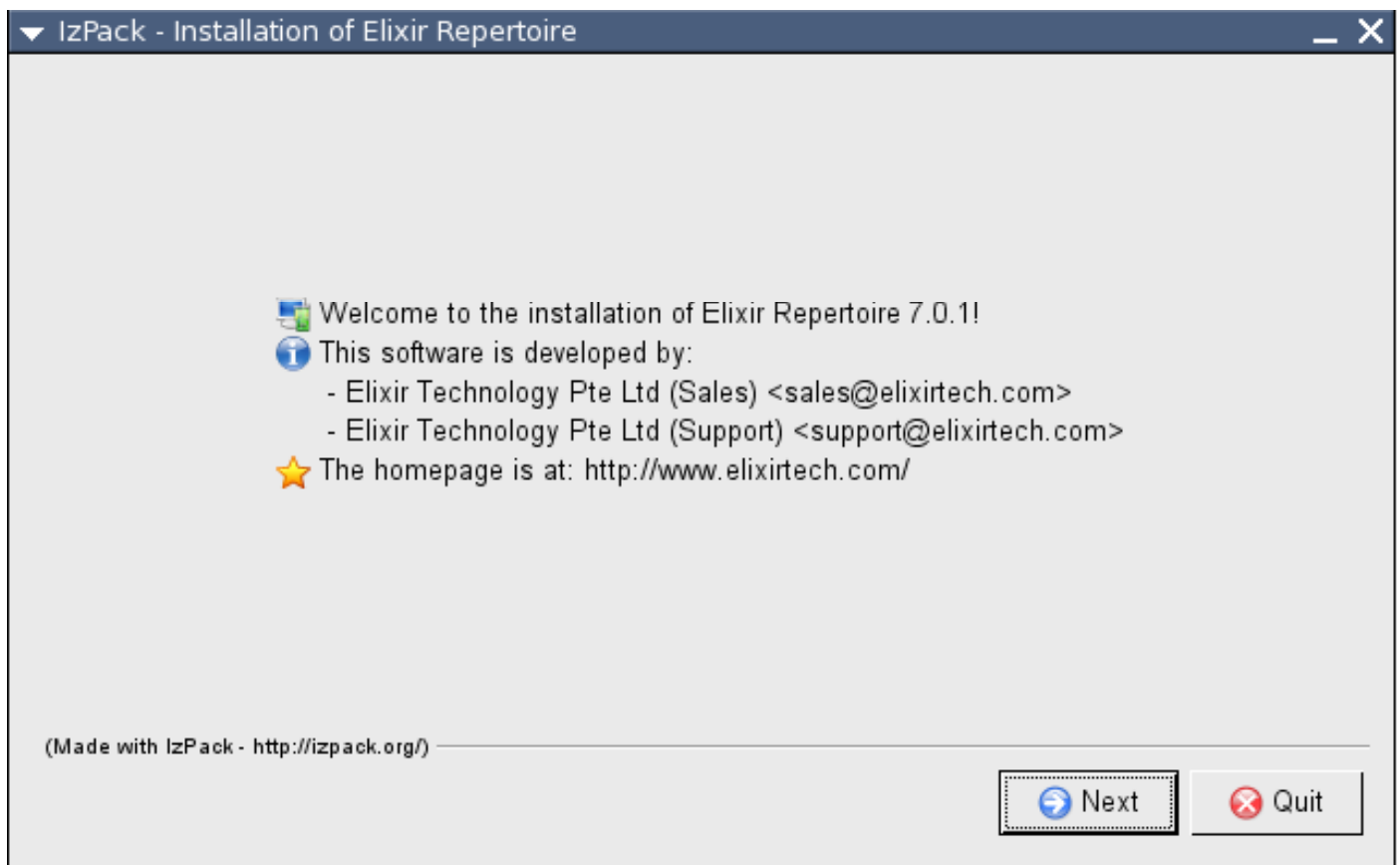# Steps for Elixir Repertoire Professional Installation

1.   Unzip Repertoire-7.0.1.zip under /ElixirUser1/Repertoire/ directory.

If you are using Repertoire-Installer-7.0.1.jar file for installation, ensure that the Execute permission has been set for the Repertoire-Installer-7.0.1.jar.
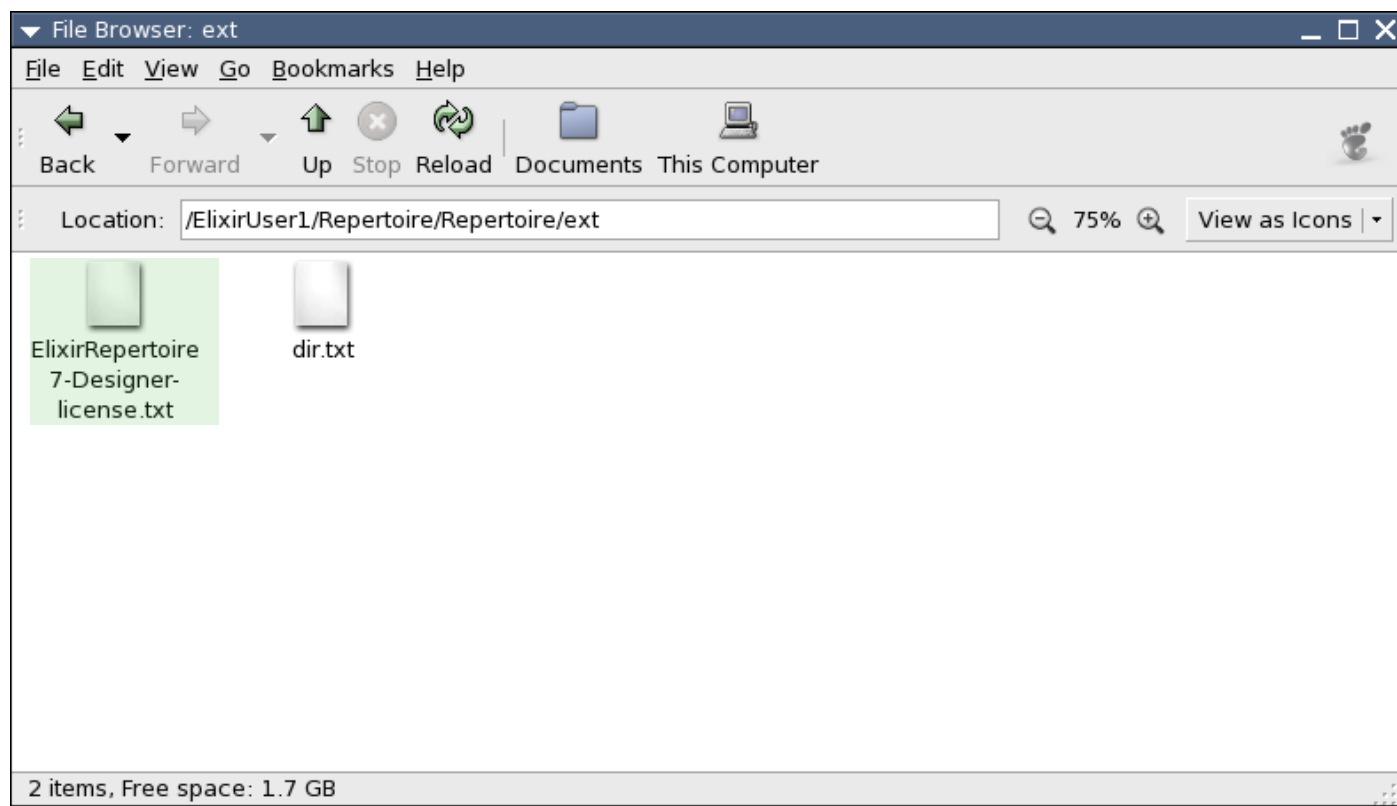
java - jar Repertoire-Installer-7.0.1.jar

This will bring up the installation wizard. Go through the steps in the installation wizard to complete the installation.

2.   Deploy the Elixir Repertoire Professional license into the OS.

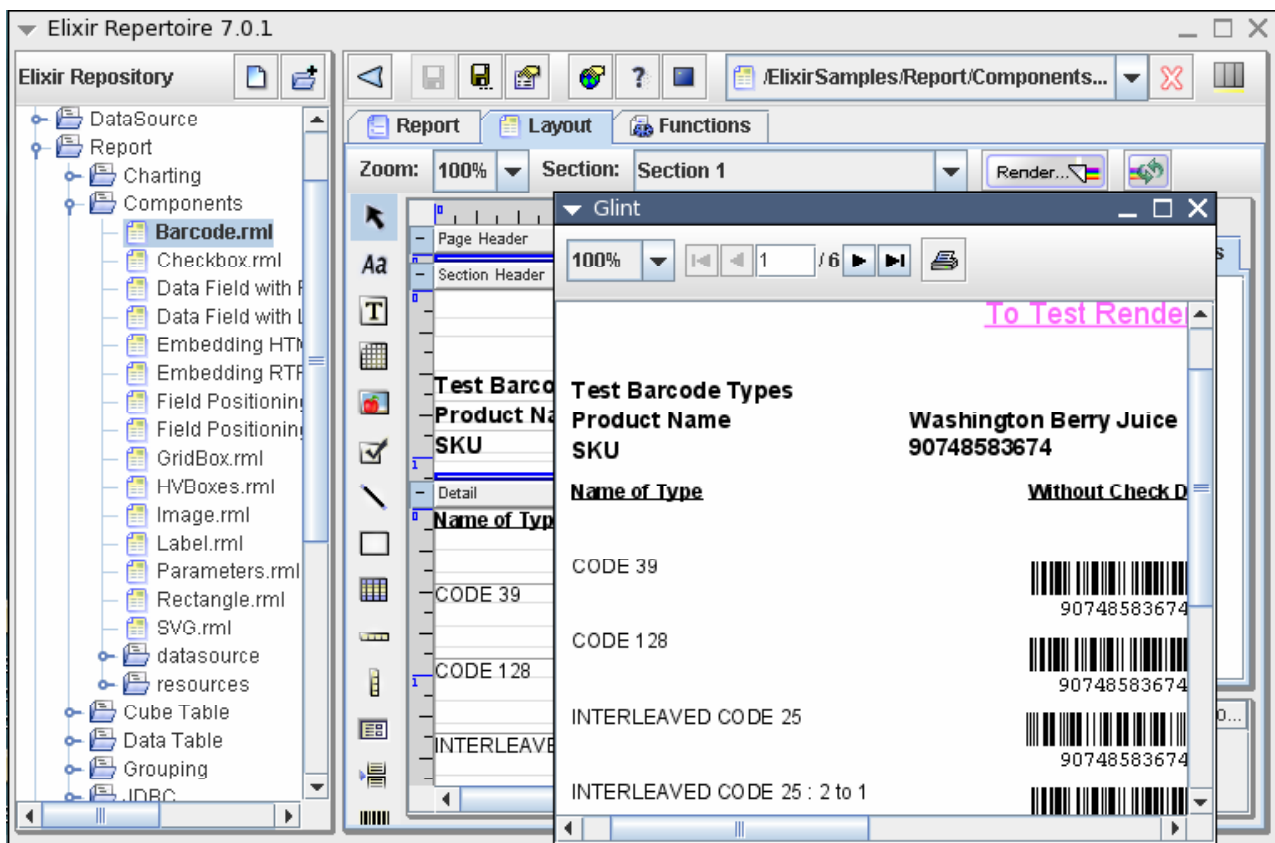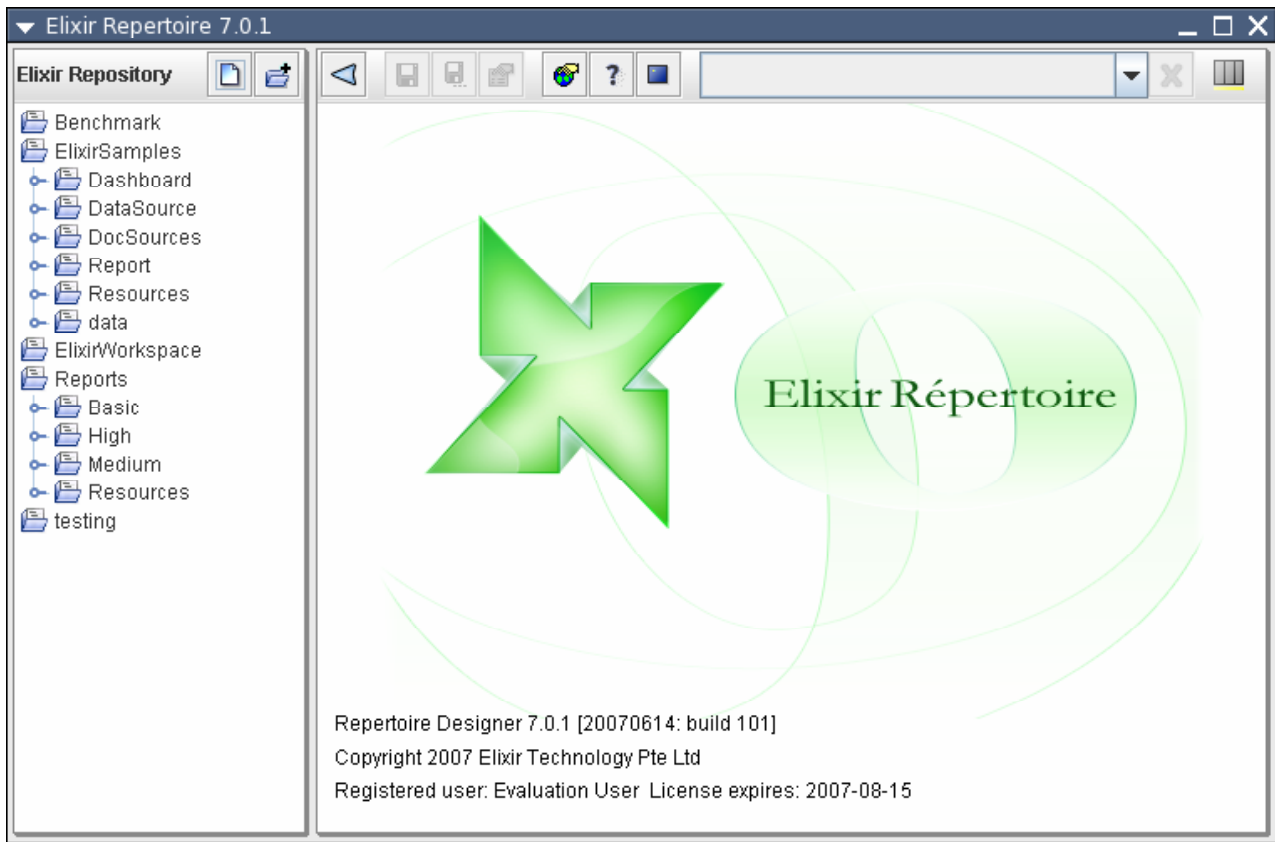Place the license file under <ext> directory of the repertoire installation directory.

Eg. /ElixirUser1/Repertoire/Repertoire/ext

3. Execute Elixir Repertoire Professional in the console

   java –jar Repertoire-Launcher.jar

   Elixir Repertoire Professional will be launched.
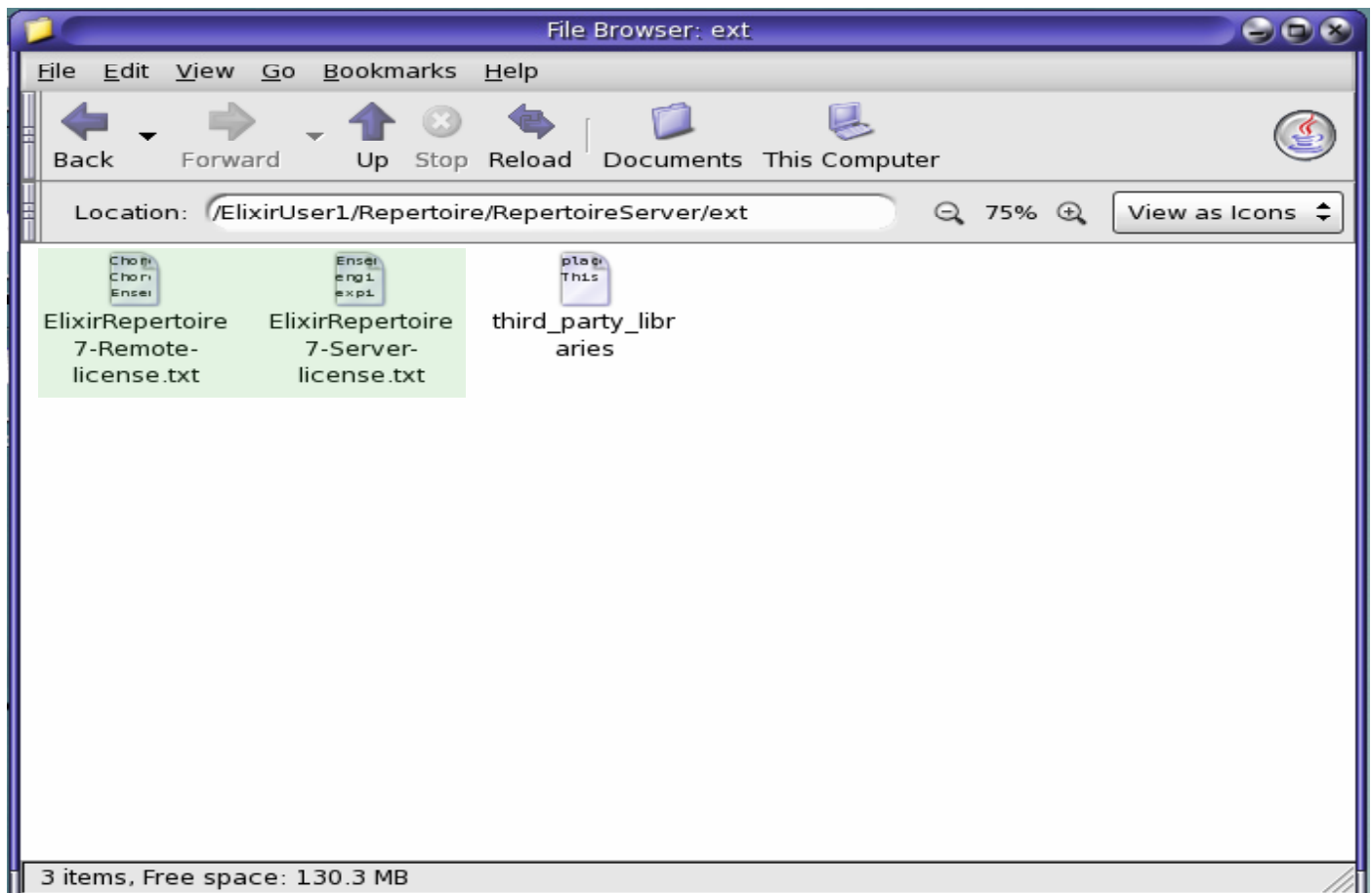
Steps for Elixir Repertoire Server Installation

1. Unzip Repertoire-7.0.1.zip under /ElixirUser1/Repertoire/ directory.

	File Browser: Repertoire	⊖ ⊡ ⊗
File Edit View Go Bookmarks Help		
← Back → Forward ↑ Up ⊗ Stop ⇔ Reload	📁 Documents 💻 This Computer	☕
Location: /ElixirUser1/Repertoire	🔍 75% 🔍	View as List ⬍

Name	Size	Type	Date Modified
📁 Repertoire	12 items	Folder	yesterday at 5:43:00 PM
📁 RepertoireServer	14 items	Folder	yesterday at 5:43:03 PM

2 items, Free space: 17.0 MB

2. Deploy the Elixir Repertoire Server licenses into the OS.
    *   Elixir Repertoire Remote License
    *   Elixir Repertoire Server License

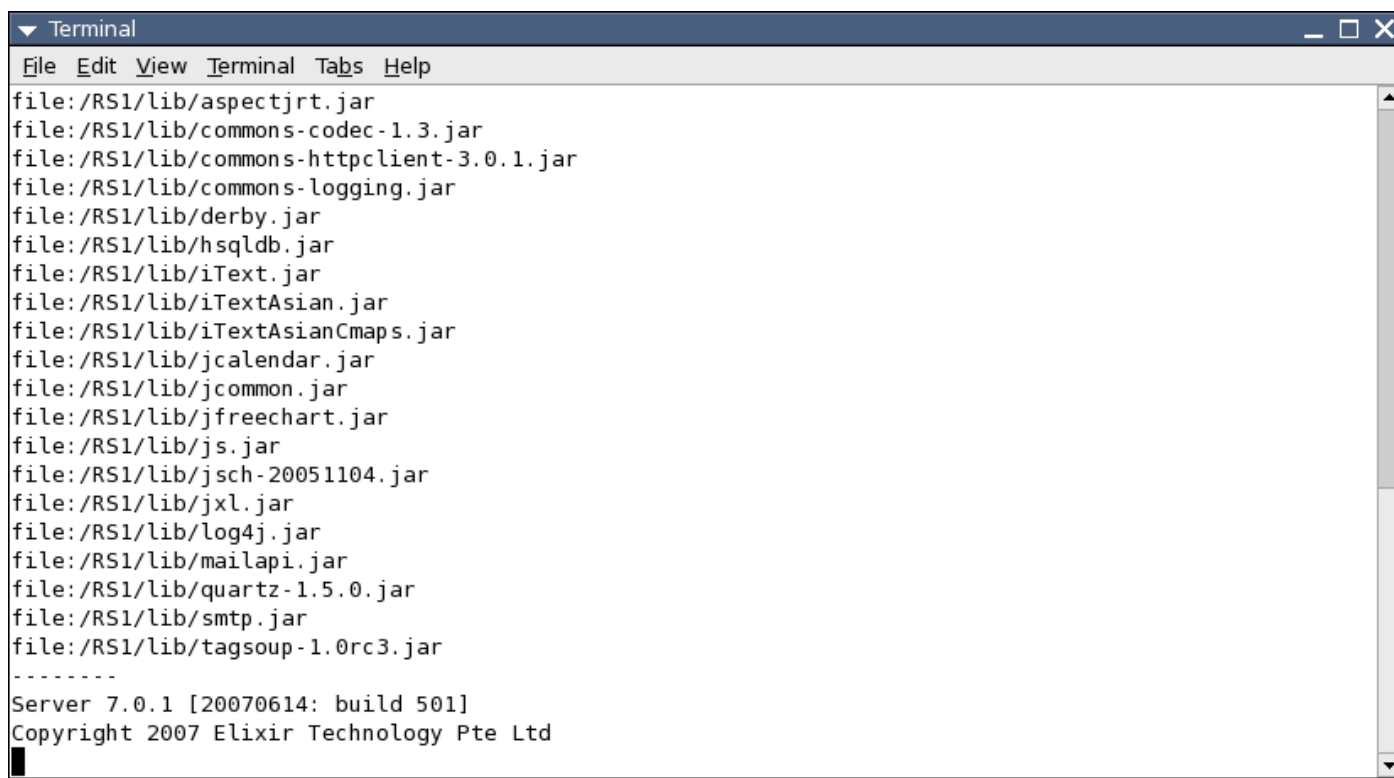   Place the license file under <ext> directory of the repertoire installation directory.

    Eg. /ElixirUser1/Repertoire/RepertoireServer/ext

	File Browser: ext	⊖ ⊡ ⊗
File Edit View Go Bookmarks Help		
← Back → Forward ↑ Up ⊗ Stop ⇔ Reload	📁 Documents 💻 This Computer	☕
Location: /ElixirUser1/Repertoire/RepertoireServer/ext	🔍 75% 🔍	View as Icons ⬍

📄 ElixirRepertoire
7-Remote-
license.txt 📄 ElixirRepertoire
7-Server-
license.txt 📄 third_party_libr
aries

3 items, Free space: 130.3 MB

3.   Launch Terminal. Go into /ElixirUser1/Repertoire/RepertoireServer/bin folder directory and enter ./startServer.sh

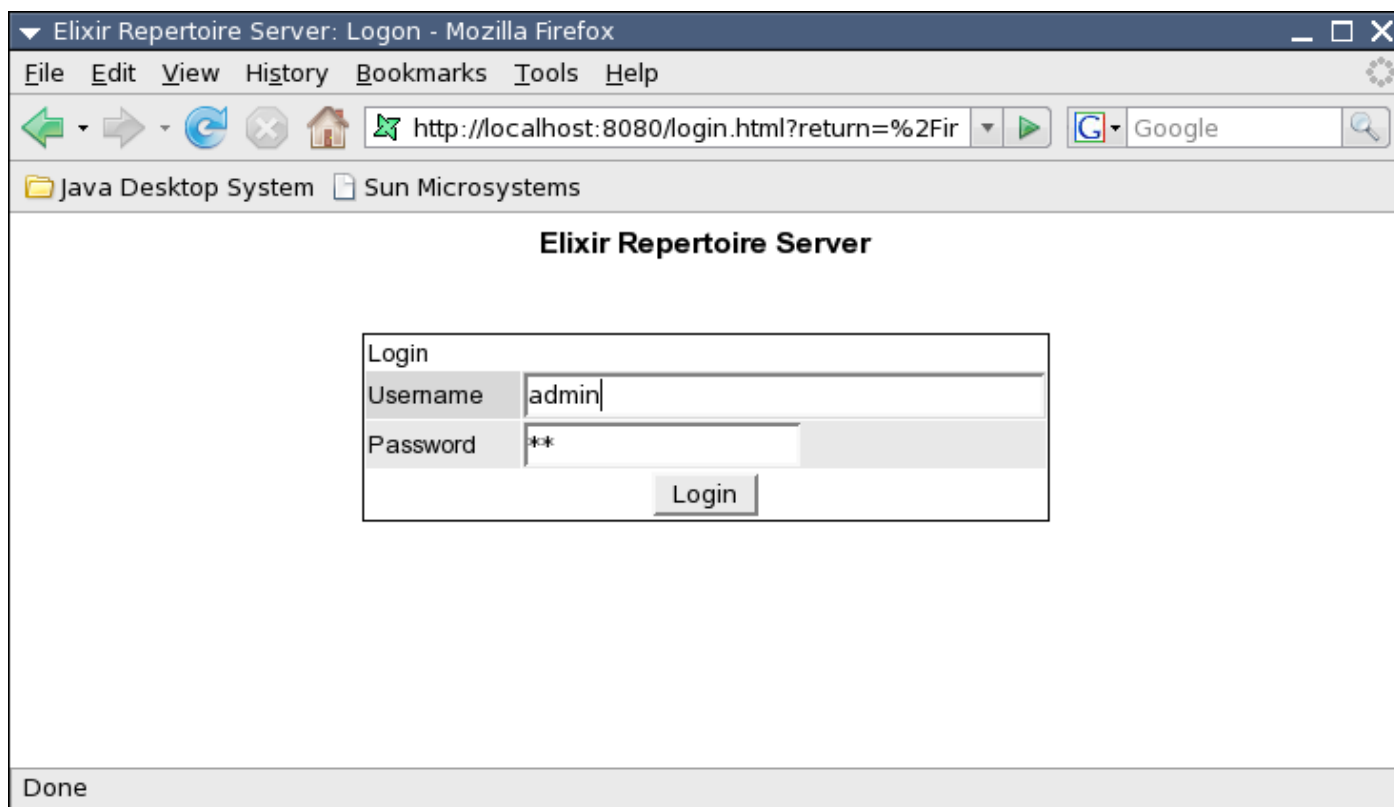   Below shows the server being started successfully

```
▼ Terminal                                                                    _ □ ✕
File  Edit  View  Terminal  Tabs  Help
file:/RS1/lib/aspectjrt.jar
file:/RS1/lib/commons-codec-1.3.jar
file:/RS1/lib/commons-httpclient-3.0.1.jar
file:/RS1/lib/commons-logging.jar
file:/RS1/lib/derby.jar
file:/RS1/lib/hsqldb.jar
file:/RS1/lib/iText.jar
file:/RS1/lib/iTextAsian.jar
file:/RS1/lib/iTextAsianCmaps.jar
file:/RS1/lib/jcalendar.jar
file:/RS1/lib/jcommon.jar
file:/RS1/lib/jfreechart.jar
file:/RS1/lib/js.jar
file:/RS1/lib/jsch-20051104.jar
file:/RS1/lib/jxl.jar
file:/RS1/lib/log4j.jar
file:/RS1/lib/mailapi.jar
file:/RS1/lib/quartz-1.5.0.jar
file:/RS1/lib/smtp.jar
file:/RS1/lib/tagsoup-1.0rc3.jar
--------
Server 7.0.1 [20070614: build 501]
Copyright 2007 Elixir Technology Pte Ltd
```

4.   Launch the browser and browse to http://localhost:8080

       Below shows the login page for the Elixir Repertoire Server

```
▼ Elixir Repertoire Server: Logon - Mozilla Firefox                           _ □ ✕
File  Edit  View  History  Bookmarks  Tools  Help
◀ ▼  ▶ ▼  C  ✕  🏠  ✕ http://localhost:8080/login.html?return=%2Fir  ▼  ▶  G ▼ Google   🔍
📁 Java Desktop System  📄 Sun Microsystems

                          Elixir Repertoire Server

              ┌─────────────────────────────────────────────┐
              │ Login                                         │
              │ Username   │ admin                          ││
              │ Password   │ **                             ││
              │                        Login                  │
              └─────────────────────────────────────────────┘




Done
```

Note: IP and port can be edited in /config/ERS2.xml

Starting Elixir Repertorie Server on startup

1.   Edit the startServer.sh

Below is the default source code for startServer.sh –

#!/bin/sh
If java is not on your path, you will need to amend this script to
locate it. For example, if JAVA_HOME is defined, you could try
# using $JAVA_HOME/bin/java instead.

(Path this to your java/bin folder) /java -mx512M -jar \
        -Djava.security.auth.login.config=(Change this path to your RepertorieServer/config folder) /
        config/auth.conf \
        -Djava.security.policy=(Path this to your RepertorieServer/config folder) /config/java2.policy \
        (Path this to your RepertorieServer/bin folder) /RepertoireServer-Launcher.jar &

*An example of the amended startServer.sh –

```
/etc/rc2.d/S101startServer.sh - gedit                                        _ □ ✕

File  Edit  View  Search  Tools  Documents  Help

New  Open    Save  Print  Undo Redo   Cut Copy Paste  Find Replace

S101startServer.sh  ✕

#!/bin/sh
# If java is not on your path, you will need to amend this script to
# locate it. For example, if JAVA_HOME is defined, you could try
# using $JAVA_HOME/bin/java instead.

/jdk1.5.0_11/bin/java -mx512M -jar \
        -Djava.security.auth.login.config=/RS/config/auth.conf \
        -Djava.security.policy=/RS/config/java2.policy \
        /RS/bin/RepertoireServer-Launcher.jar &

                                                Ln 1, Col 1              INS
```

Note:"&" is added at the end to ensure that the script is startup as a background process.

2.   Place the above script into the common directory for startup scripts - /etc/rc2.d and /etc/rc3.d.

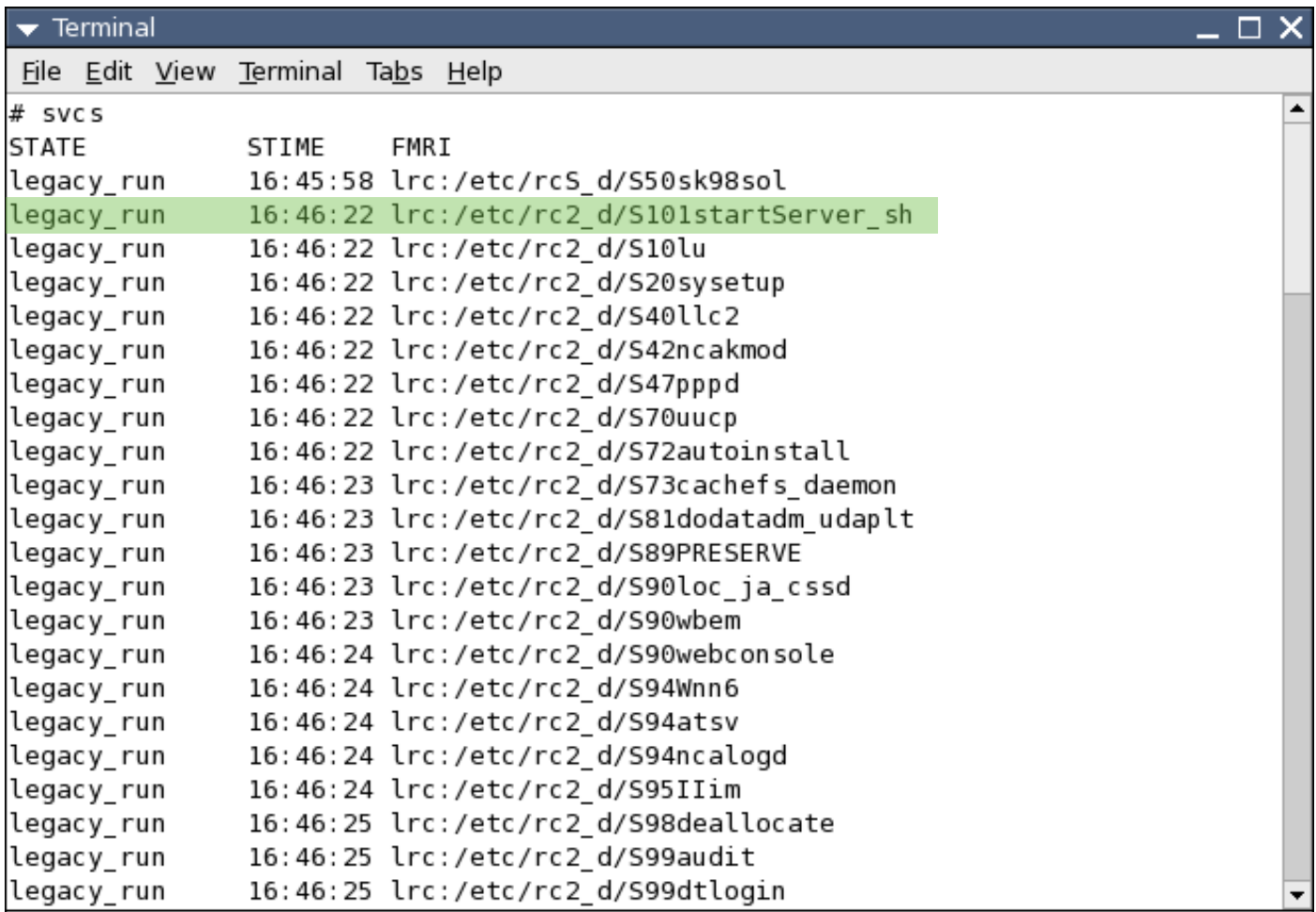*An example on the location on where S101startServer.sh is placed –
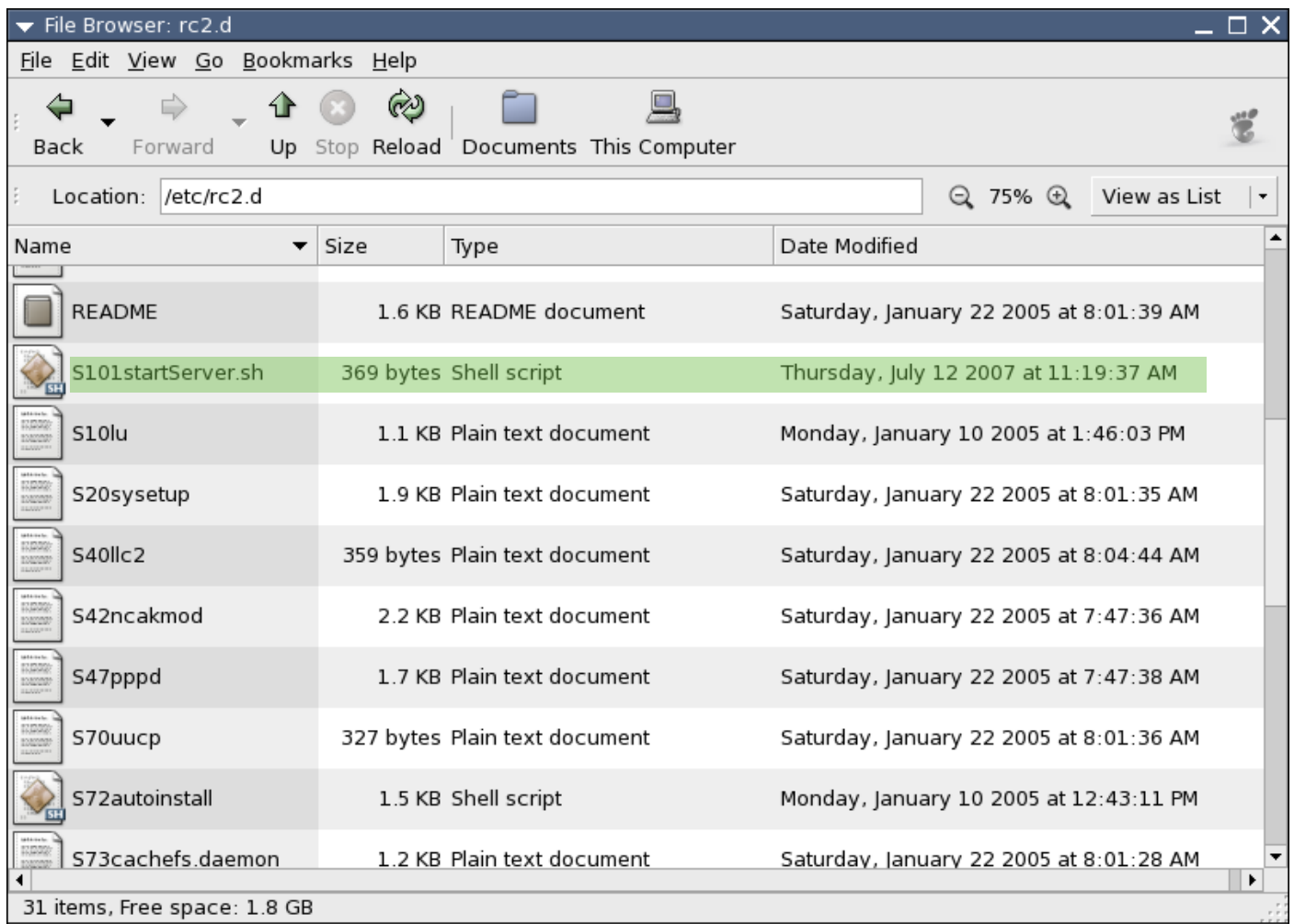
Init scripts are prefixed with a capital S for "Start" or K for "Kill", followed by numbers. When a system is booted, scripts in these run-level directories are run if they start with an S and sequentially based on the digits, so S00filename is run first, and so on.

- In this case, the startServer.sh was renamed to S101startServer.sh and placed into /etc/rc2.d directory.

3.   Reboot the system to test if the script runs at startup.

   -   Check the services by running #svcs in the terminal.

   *The following is a screenshot of the services to check if Elixir Repertoire Server runs at startup -

```
# svcs
STATE            STIME    FMRI
legacy_run       16:45:58 lrc:/etc/rcS_d/S50sk98sol
legacy_run       16:46:22 lrc:/etc/rc2_d/S101startServer_sh
legacy_run       16:46:22 lrc:/etc/rc2_d/S10lu
legacy_run       16:46:22 lrc:/etc/rc2_d/S20sysetup
legacy_run       16:46:22 lrc:/etc/rc2_d/S40llc2
legacy_run       16:46:22 lrc:/etc/rc2_d/S42ncakmod
legacy_run       16:46:22 lrc:/etc/rc2_d/S47pppd
legacy_run       16:46:22 lrc:/etc/rc2_d/S70uucp
legacy_run       16:46:22 lrc:/etc/rc2_d/S72autoinstall
legacy_run       16:46:23 lrc:/etc/rc2_d/S73cachefs_daemon
legacy_run       16:46:23 lrc:/etc/rc2_d/S81dodatadm_udaplt
legacy_run       16:46:23 lrc:/etc/rc2_d/S89PRESERVE
legacy_run       16:46:23 lrc:/etc/rc2_d/S90loc_ja_cssd
legacy_run       16:46:23 lrc:/etc/rc2_d/S90wbem
legacy_run       16:46:24 lrc:/etc/rc2_d/S90webconsole
legacy_run       16:46:24 lrc:/etc/rc2_d/S94Wnn6
legacy_run       16:46:24 lrc:/etc/rc2_d/S94atsv
legacy_run       16:46:24 lrc:/etc/rc2_d/S94ncalogd
legacy_run       16:46:24 lrc:/etc/rc2_d/S95IIim
legacy_run       16:46:25 lrc:/etc/rc2_d/S98deallocate
legacy_run       16:46:25 lrc:/etc/rc2_d/S99audit
legacy_run       16:46:25 lrc:/etc/rc2_d/S99dtlogin
```

   -   Check if you are able to access the server.
   -   Login to http://localhost:8080.

   *The following is a screenshot on the Elixir Repertoire Server Login Page -
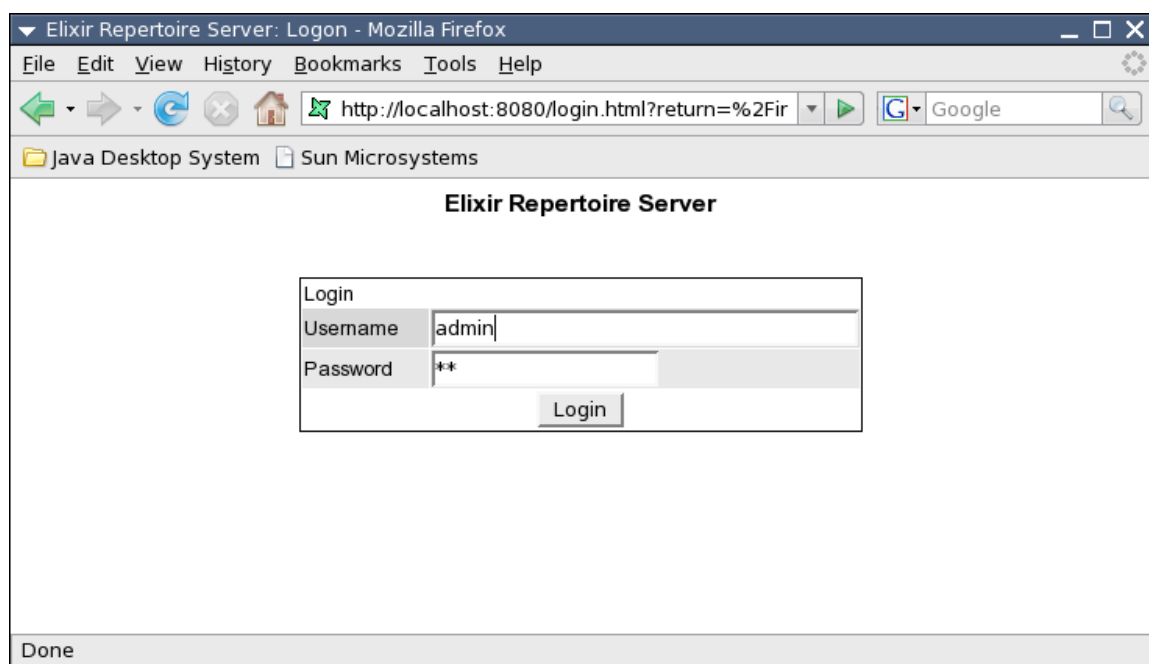
Disable the startup script

1. Manually deleting the script - S101startServer.sh or
2. Remove the "S" from the filename. Only files that begin with "S" will run at the startup.
   - Reboot the system after executing either of the above options to check if the script is disabled.

Shutting down Elixir Repertorie Server

There are two options in executing this shutdown properly.

1. Running the stopServer.sh or
2. Shutting the server using the browser after login to the GUI.

*The following is a screenshot of the shutdown feature in Repertorie Server GUI -
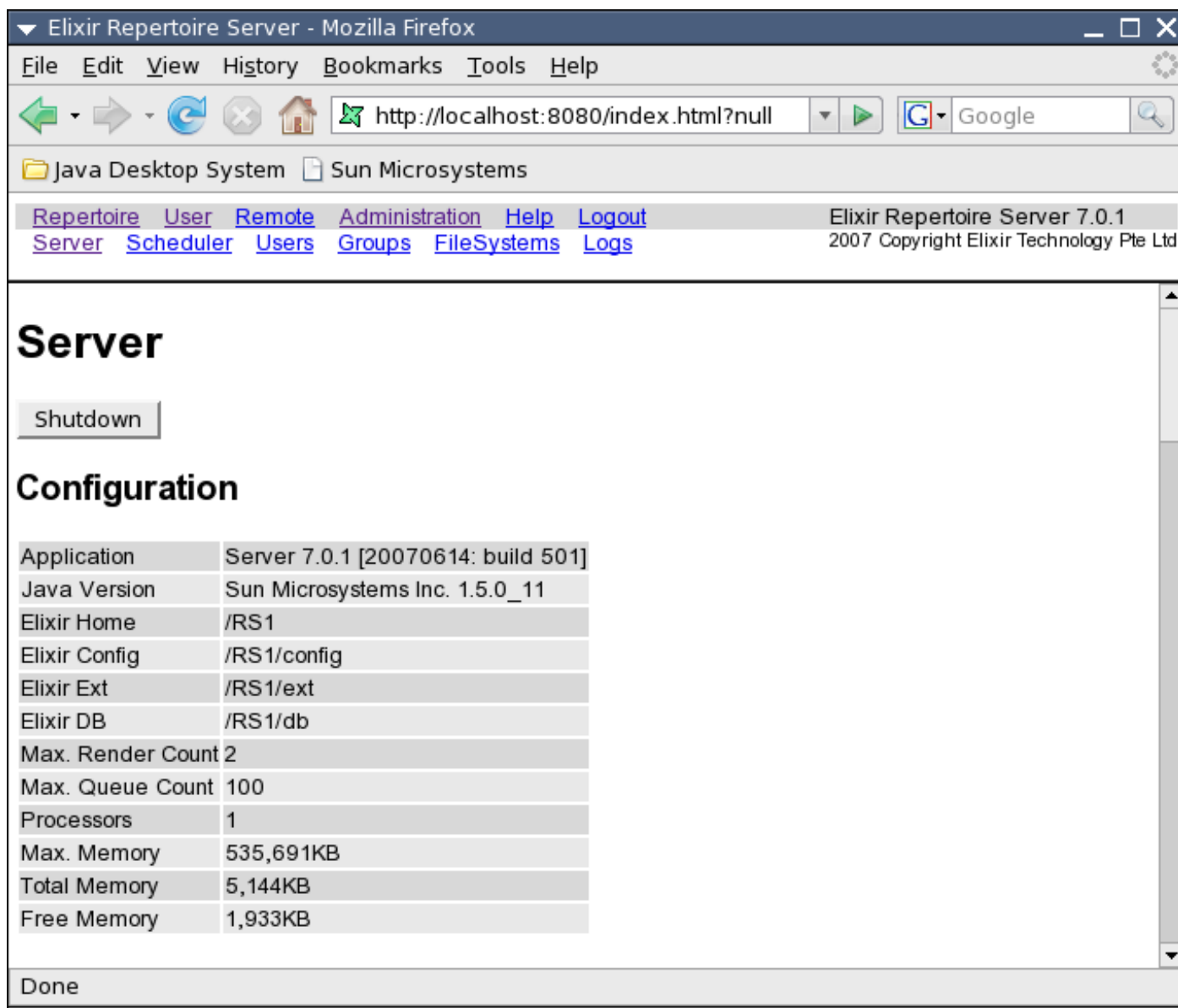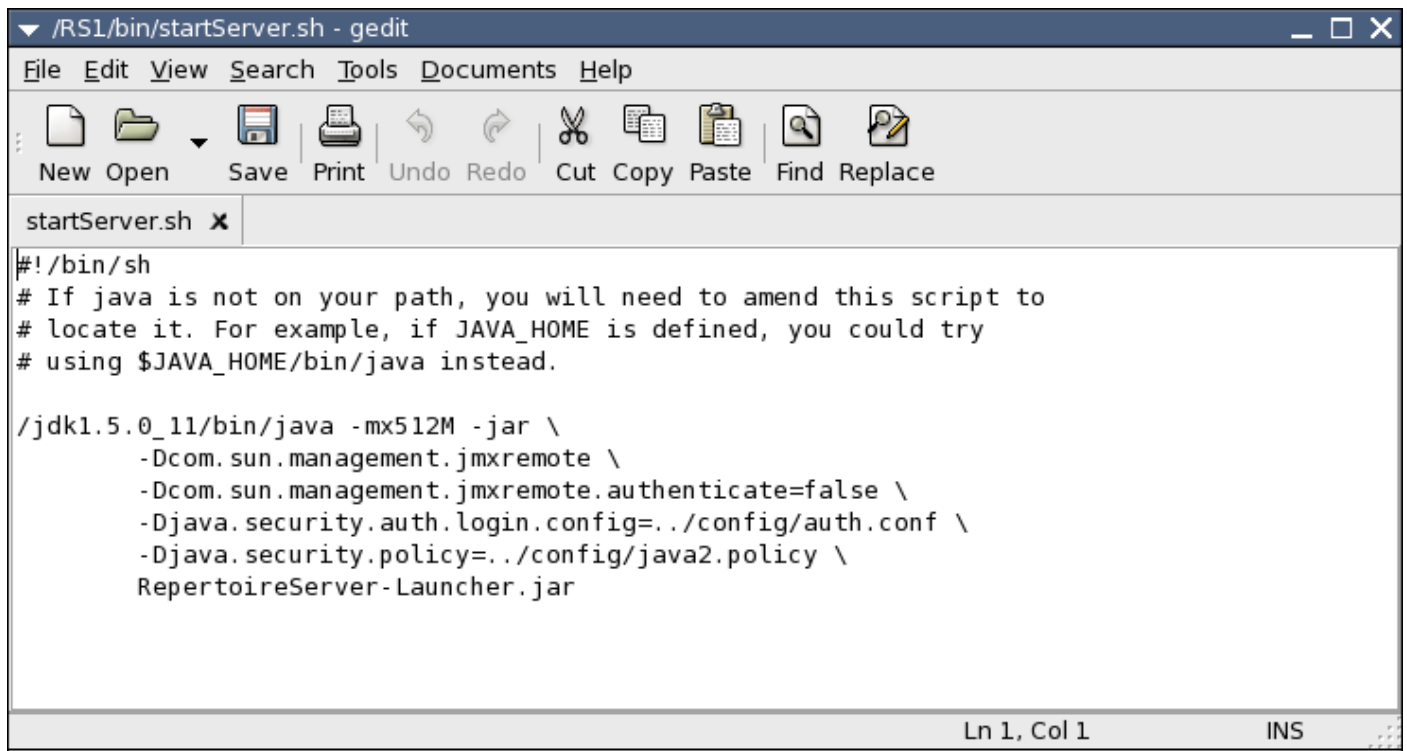
JConsole – JVM JMX

The following steps allow a user to monitor Elixir Repertoire Server using the JConsole -

1.   Copy the following 2 lines into your startServer.sh (shown in bold)

       - Dcom.sun.management.jmxremote
       - Dcom.sun.management.jmxremote.authenticate=false

*The following is a screenshot on the sample of startServer.sh -

2.   Run the Elixir Repertoire Server and launch JConsole using terminal.
      JConsole can be found in the Java 2 Platform, Standard Edition (J2SE)/bin directory.
      Note: Minimum Java 2 Platform, Standard Edition (J2SE) 5.0 must be installed.

*The following is a screenshot on the JConsole
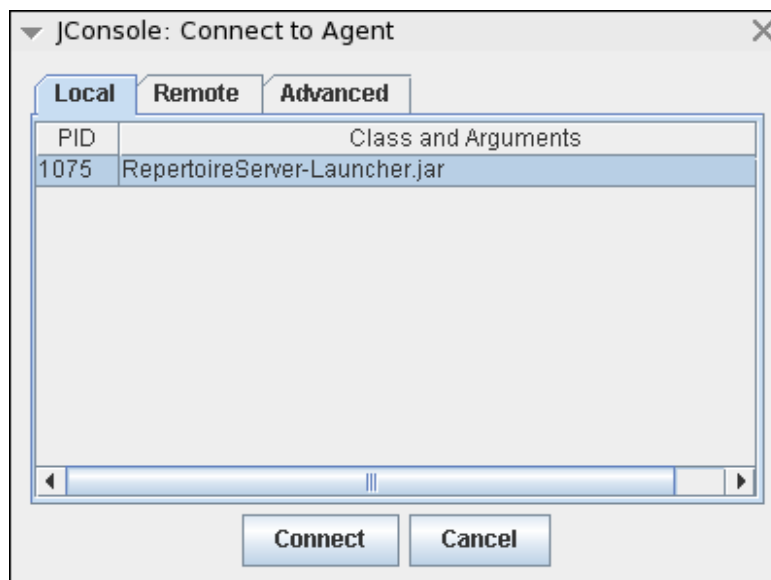
3. Select the connection "RepertoireServer-Launcher.jar" from the Local tab and click Connect. Upon clicking Connect, you will see the JMX Information Summary.

The following is a screenshot on the JMX Information Summary –

The following is a screenshot on the VM Information –

J2SE 5.0 Monitoring & Management Console: 1075@localhost	_ □ ×

Connection

| Summary | Memory | Threads | Classes | MBeans | VM |

VM Information

Java Virtual Machine:	Java HotSpot(TM) Client VM version 1.5.0_11-b03
Vendor:	Sun Microsystems Inc.
Uptime:	21 minutes
Name:	1075@ultra10
VM arguments:	-Xmx512M -Dcom.sun.management.jmxremote -Dcom.sun.management.jmxremote.authenticate=false -Djava.security.auth.login.config=../config/a -Djava.security.policy=../config/java2.policy
Class path:	RepertoireServer-Launcher.jar
Library path:	/jdk1.5.0_11/jre/lib/i386/client:/jdk1.5.0_11/jre/lib/i386:/jdk1.5.0_11/jre/../lib/i386:/usr/lib
Boot class path:	/jdk1.5.0_11/jre/lib/rt.jar:/jdk1.5.0_11/jre/lib/i18n.jar:/jdk1.5.0_11/jre/lib/sunrsasign.jar:/jdk1.5.0_11/jre/lib/jsse.jar:/jdk1.5.0_11/jre/lib/jce.jar:/jdk1.5.

Compiler

JIT compiler:	HotSpot Client Compiler
Total compile time:	0.533 seconds

Operating System

Operating System:	SunOS 5.10
Architecture:	x86
Number of processors:	1
Process CPU time:	4.950 seconds
Total physical memory:	2,096,700 kbytes
Free physical memory:	1,566,288 kbytes
Committed virtual memory:	119,116 kbytes
Total swap space:	2,048,252 kbytes
Free swap space:	2,048,252 kbytes

The following is a screenshot which shows the current JVM memory of the server -
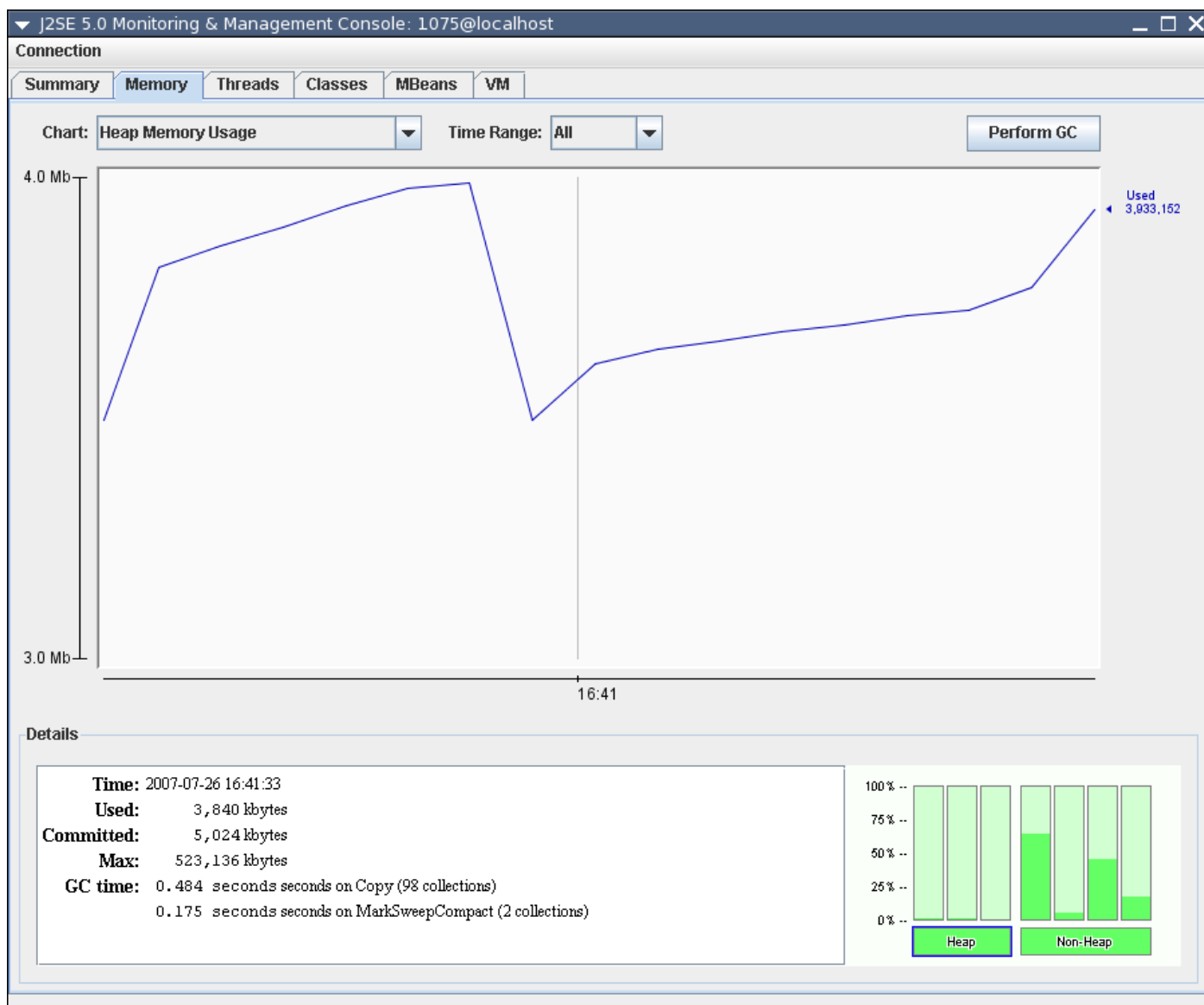
The following is a screenshot which shows the Listening thread on port 8080 –
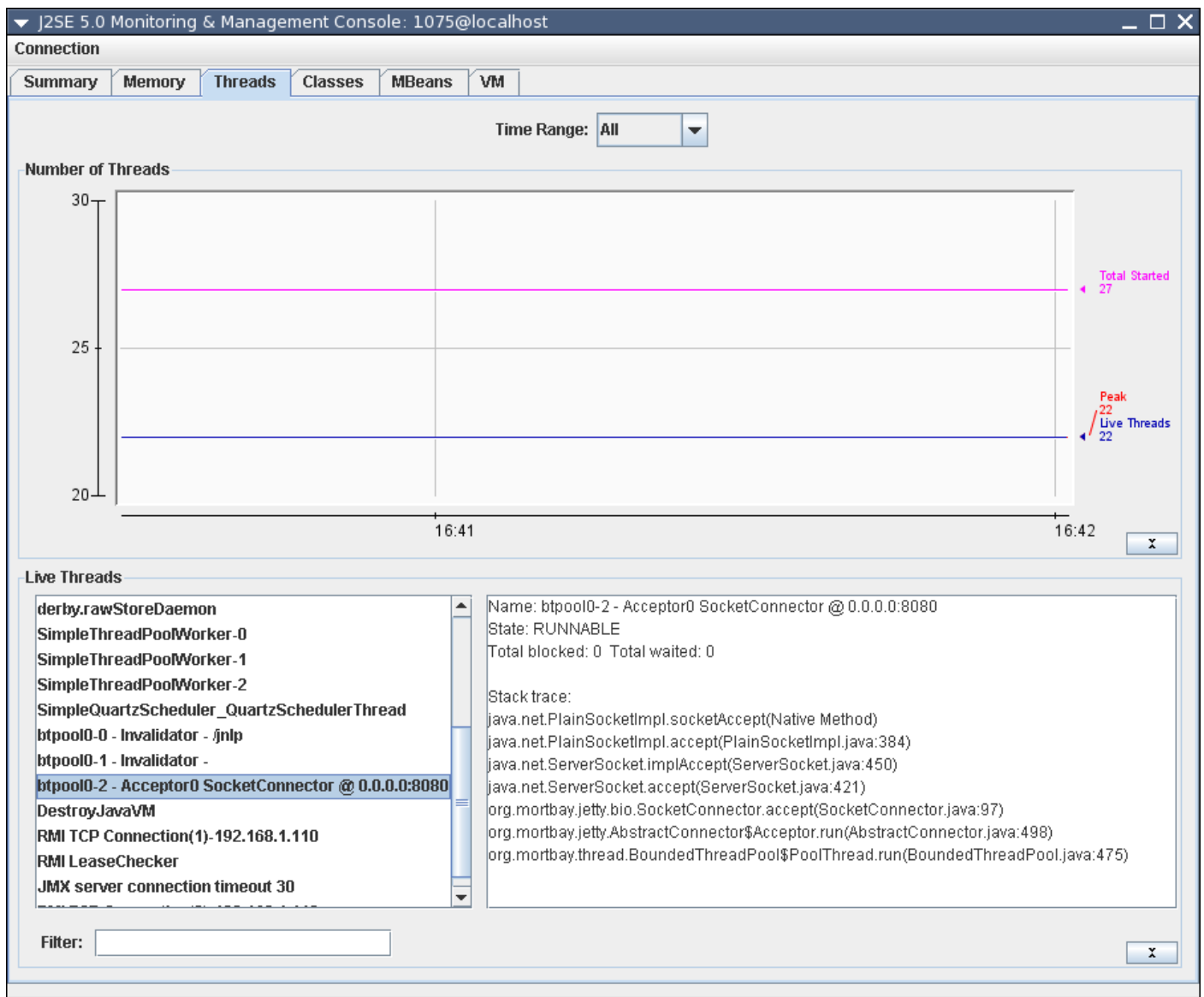
Summary

Elixir Repertoire offers a wide array of functionalities for maximum business impact, while leveraging Java Standard & Enterprise Edition for cross-platform compatibility. Satisfied customers worldwide rely on Elixir Repertoire to improve operations efficiency as well as increase corporate profitability.

For additional information, please contact the Elixir at sales@elixirtech.com.

About Elixir Technology Pte Ltd

Elixir Technology provides a Unified Business Intelligence Platform for end-to-end information life cycle coverage from Extraction-Transformation-Loading (ETL), Data Aggregation, Cube, Reporting, Dashboard and Activation. Our flagship product, Elixir Report, has garnered over 600 customers across 50 countries in various verticals such as government, financial services, telecommunications, healthcare, retail, and technology. Going beyond enterprise reporting needs, our Integrated Business Intelligence Suite, Elixir Repertoire, is designed to further empower our customers toward becoming intelligent enterprises, where critical information is readily available to drive decisions and actions. Elixir Technology is headquartered in Singapore, with an R&D arm in UK. Through a network of partners, Elixir's products are represented in many parts of the world across major continents including Asia, America, and Europe. For more information, please visit www.elixirtech.com.

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Intelligence On Demand