





Table of Contents

1.	System Requirements	2
2.	System Information	3
3.	Setup Information	3
4.	Steps for Elixir Repertoire Professional Installation	4
5.	Steps for Elixir Repertoire Server Installation	7
6.	Starting Elixir Repertorie Server on Startup	9
7.	Disable the startup script	.12
8.	Shutting down Elixir Repertorie Server	.12
9.	JConsole – JVM JMX	.13

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

Welcome root
solaris
Please enter your password I OK Start Over Options Help

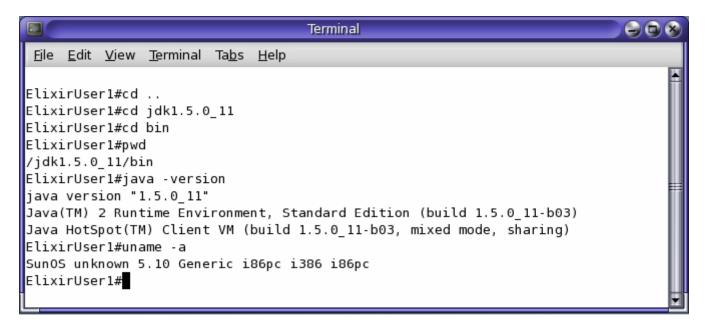
System Information

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



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 Brow	ser: Repertoire		
<u>Fi</u> le <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks	<u>H</u> elp			
Back Forward Up Stop	Reload	Documents This Compu	ter	٢
Location: /ElixirUser1/Repertoin	re	9	, 75% ⊕,	View as List 💲
Name 🔻	Size	Туре	Date Modifi	ed
Repertoire-7.0.1.zip	31.8 MB	Zip archive	yesterday a	at 5:24:02 PM
Repertoire-Installer-7.0.1.exe	32.6 MB	application/x-executable	yesterday a	at 5:29:20 PM
Repertoire-Installer-7.0.1.jar	32.4 MB	application/x-jar	yesterday a	at 5:25:02 PM
Repertoire-Server-7.0.1.zip	30.7 MB	Zip archive	yesterday a	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.

	File Bro	wser: Repertoire		
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmark	s <u>H</u> elp			
Back Forward Up Sto	p Reload	Documents T	lis Computer	٢
Location: /ElixirUser1/Reperto	oire		🔍 75% 🕀 View as List	\$
Name 🔻	Size	Туре	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				

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.

▼ IzPack - Installation of Elixir Repertoire	_ ×
 Welcome to the installation of Elixir Repertoire 7.0.1! This software is developed by: Elixir Technology Pte Ltd (Sales) <sales@elixirtech.com></sales@elixirtech.com> Elixir Technology Pte Ltd (Support) <support@elixirtech.com></support@elixirtech.com> The homepage is at: http://www.elixirtech.com/ 	
(Made with IzPack - http://izpack.org/)	😣 Quit

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

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

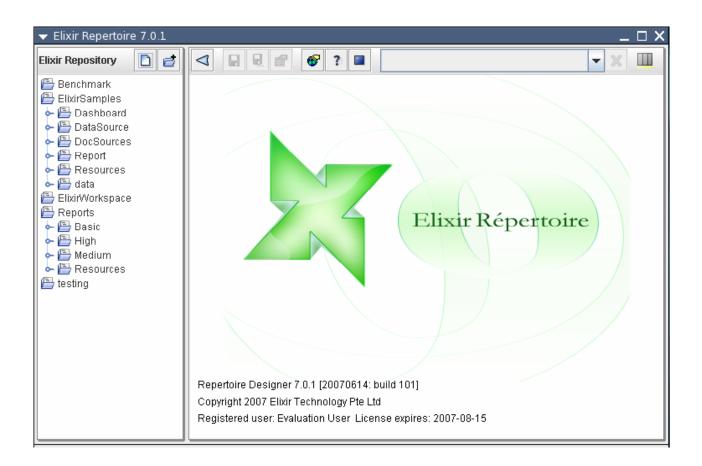
Eg. /ElixirUser1/Repertoire/Repertoire/ext

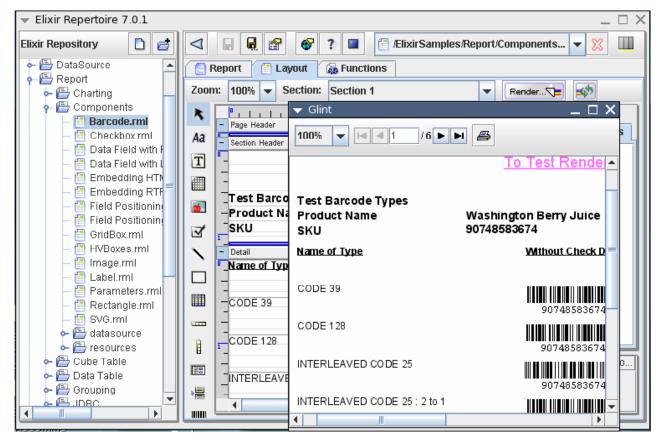
▼ File Browser: ext		_ 🗆 X
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks <u>H</u> elp		
Back Forward Up Stop Reload Documents This Computer		100
Location: /ElixirUser1/Repertoire/Repertoire/ext	⊖ 75% ⊕	View as Icons •
ElixirRepertoire 7-Designer- license.txt		
2 items, Free space: 1.7 GB		

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 Bro	wser: Repertoire		8
<u>Fi</u> le <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmark	s <u>H</u> elp			
Back Forward Up Sto	p Reload	Documents T	lis Computer)
Location: /ElixirUser1/Reperto	oire		Q 75% ⊕ View as List 🛟	5
Name 🔻	Size	Туре	Date Modified	
Repertoire	12 items	Folder	yesterday at 5:43:00 PM	
RepertoireServer	14 items	Folder	yesterday at 5:43:03 PM	
Ditems Free space, 17.0 MD				
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	
<u>Fi</u> le <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks	<u>H</u> elp	
Back Forward Up Stop	Reload Documents This Computer	
E Location: /ElixirUser1/Repertoi	re/RepertoireServer/ext	75% 🕀 View as Icons 🗘
ElixirRepertoire 7-Remote- license.txt 7-Server- license.txt 7-Server- license.txt 7-Server- 1	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	_ 🗆 X
<u>Fi</u> le <u>E</u> dit <u>V</u> iew <u>T</u> erminal Ta <u>b</u> s <u>H</u> elp	
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 📃 🗆 🗙
<u>File Edit View History Bookmarks Tools H</u> elp
🗀 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

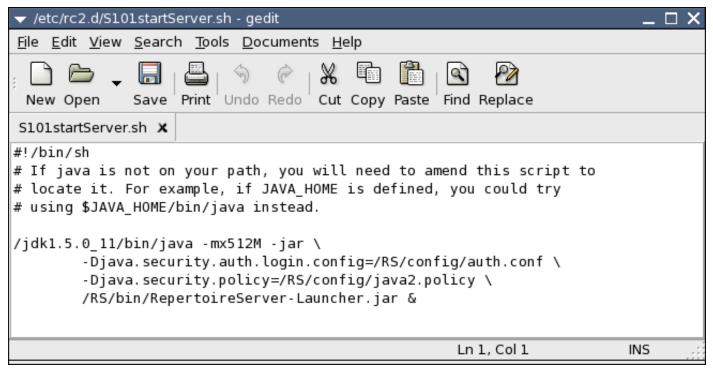
If java is not on your path, you will need to amend this script to # locate it. For example, if JAVA_HOME is defined, you could try # using \$JAVA_HOME/bin/java instead.

(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 -



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 -

▼ File Browser: rc2.d			_ 🗆 X
<u>Fi</u> le <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookma	arks <u>H</u> elp		
🗢 🖕 🗣 🛫 🗘	⊗ 🗞		Ť
Back Forward Up	Stop Reload	Documents This Computer	
Location: /etc/rc2.d			Q 75% ⊕ View as List ▼
Name 🔻	Size	Туре	Date Modified
	1.6 KB	README document	Saturday, January 22 2005 at 8:01:39 AM
S101startServer.sh	369 bytes	Shell script	Thursday, July 12 2007 at 11:19:37 AM
S10lu	1.1 KB	Plain text document	Monday, January 10 2005 at 1:46:03 PM
S20sysetup	1.9 KB	Plain text document	Saturday, January 22 2005 at 8:01:35 AM
S40llc2	359 bytes	Plain text document	Saturday, January 22 2005 at 8:04:44 AM
S42ncakmod	2.2 KB	Plain text document	Saturday, January 22 2005 at 7:47:36 AM
S47pppd	1.7 KB	Plain text document	Saturday, January 22 2005 at 7:47:38 AM
S70uucp	327 bytes	Plain text document	Saturday, January 22 2005 at 8:01:36 AM
S72autoinstall	1.5 KB	Shell script	Monday, January 10 2005 at 12:43:11 PM
S73cachefs.daemon	1.2 KB	Plain text document	Saturday, January 22 2005 at 8:01:28 AM
31 items, Free space: 1.8 GB			

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 -

		_ 🗆 X
<u>Fi</u> le <u>E</u> dit <u>V</u> iew	<u>T</u> erminal Ta <u>b</u> s <u>H</u> elp	
# 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 -

▼ Elixir Repertoire Server: Logon - Mozilla Firefox □	×
<u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	\diamond
👍 🕶 🛶 😴 🐼 🏠 🕅 http://localhost:8080/login.html?return=%2Fir 💌 🕨 💽 Google 🖉	Ś
🗀 Java Desktop System 🗋 Sun Microsystems	
Elixir Repertoire Server	
Login	
Usemame _{admin}	
Password **	
Login	
Done	

Disable the startup script

- 1. Manually deleting the script S101startServer.sh or
 - 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.

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 -

👻 Elixir Repertoire	Server - Mozilla Firefox	_ 0	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew	Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	р	$\langle \rangle$
<	🐼 🚮 🔄 http://localhost:808	80/index.html?null 🔻 🕨 💽 Google 🤇	Z)
🔁 Java Desktop S	ystem 📋 Sun Microsystems		
<u>Repertoire User</u> Server <u>Schedule</u>		Logs Elixir Repertoire Server 7.0.1 2007 Copyright Elixir Technology Pte	Ltd
Server			
Configuratio	n		
Application	Server 7.0.1 [20070614: build 501]	1	
Java Version	Sun Microsystems Inc. 1.5.0_11		
Elixir Home	/RS1		
Elixir Config	/RS1/config		
Elixir Ext	/RS1/ext		
Elixir DB	/RS1/db		
Max. Render Count	2		
Max. Queue Count	100		
Processors	1		
Max. Memory	535,691KB		
Total Memory	5,144KB		
Free Memory	1,933KB		
			Ŧ
Done			

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 -

✓ /RS1/bin/startServer.sh - gedit	_ 🗆 X
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>S</u> earch <u>T</u> ools <u>D</u> ocuments <u>H</u> elp	
🔋 📄 🖕 💭 🎽 🎒 🔗 🔗 🕺 🎬 🛅 🔯 🤔 New Open 🛛 Save Print Undo Redo Cut Copy Paste Find Replace	
startServer.sh 🗙	
<pre>#!/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 \ -Dcom.sun.management.jmxremote \ -Dcom.sun.management.jmxremote.authenticate=false \ -Djava.security.auth.login.config=/config/auth.conf \ -Djava.security.policy=/config/java2.policy \ RepertoireServer-Launcher.jar</pre>	
Ln 1, Col 1	INS

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

Y	JCons	sole: Connect to Agent	X
J	Local	Remote Advanced	
	PID	Class and Arguments	1
	1075	RepertoireServer-Launcher.jar	
	4		
			9
		Connect Cancel	

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 -

🔻 J2SE 5.0 Monitoring & Manag	ement Console: 107	5@localhost		_ 🗆 ×
Connection				
Summary Memory Threads	Classes MBean	s VM		
	Summar	y		
Uptime:	21 minutes	Process CPU time:	4.770 seconds	
Total compile time:	0.499 seconds			
	Threads			
Live Threads:	22	Peak:	22	
Daemon threads:	14	Total started:	27	
	Memory			
Current heap size:	3,670 kbytes	Committed memory:	5,024 kbytes	
Maximum heap size:	523,136 kbytes			
Objects pending for finalization:	0			
-		ons = 82, Total time spent = 0.46		
Garbage collector:	Name = 'MarkSweepCor	npact', Collections = 2, Total tim	ne spent = 0.175 seconds	
	Classes			
Current classes loaded:	3,251	Total classes unloaded:	3	
Total classes loaded:	3,254			
	Operating Sys	stem		
Total physical memory:	2,096,700 kbytes	Free physical memory:	1,567,560 kbytes	
Committed virtual memory:	119,116 kbytes			
1				

▼ J2SE 5.0 Monitoring & Management Console: 1075@localhost _ □ X								
Connection								
Summary	Memory T	hreads	Classes	MBeans	VM			
						VM Information		
Java '	Virtual Machi	ne: Ja	va HotSpot(TM) Client VM ·	version	1.5.0_11-b03		
			in Microsystems	Inc.				
	Uptir	ne: 21	minutes					
	Nar	ne: 10	175@ultra10					
	VM argumer		Imx512M -Dcor)java.security.pc			xremote -Dcom.sun.management.jmxremote.authenticate=false -Djava.security.auth.login.config=/config olicy		
	Class pa	ith: Ra	epertoireServer-I	.auncher.jar				
	Library pa	th: /jċ	lk1.5.0_11/jre/lik	/i386/client:/j	3lk1.5.0	_11/jre/lib/i386:/jdk1.5.0_11/jre//lib/i386:/usr/lib		
	Boot class pa	ith: /jd	lk1.5.0_11/jre/lik	/rt.jar:/jdk1.5	0_11/jr	e/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 compil	ler: H	otSpot Client Co	mpiler				
To	tal compile tir	ne: 0.	533 seconds					
			Operating System					
OI	perating Syste	em: Su	mOS 5.10					
	Architectu	ure: x8	6					
Numb	er of processo	ors: 1						
Pı	rocess CPU tir	ne: 43	950 seconds					
Total p	hysical memo	ory: 2	2,096,700 kby	rtes				
Free p	hysical memo	ry: 3	1,566,288 kbytes					
Committed	virtual memo	ry:	119,116 kbytes					
]	fotal swap spa	ice: 2	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 -

Summary Memory Threads Classes MBeans VM Chart: Heap Memory Usage Time Range: All Perform GC 4.0 Mb 4.0 Mb	▼ J2SE 5.0 Monitoring & Management Console: 1075@localhost Connection	_ 🗆 X
Chart: Heap Memory Usage Time Range: All Perform GC 4.0 Mb 4.0 Mb 4.0 Mb 1.0 Mb 1		
3 0 Mb		Perform GC
Details Time: 2007-07-26 16:41:33 Used: 3,840 kbytes Committed: 5,024 kbytes Max: 523,136 kbytes GC time: 0.484 seconds seconds on Copy (98 collections) 0.175 seconds seconds on MarkSweepCompact (2 collections)		Used 3,933,152
Time: 2007-07-26 16:41:33 100% Used: 3,840 kbytes Committed: 5,024 kbytes Max: 523,136 kbytes GC time: 0.484 seconds seconds on Copy (98 collections) 0.175 seconds seconds on MarkSweepCompact (2 collections)	16:41	
Used: 3,840 kbytes Committed: 5,024 kbytes Max: 523,136 kbytes GC time: 0.484 seconds seconds on Copy (98 collections) 0.175 seconds seconds on MarkSweepCompact (2 collections)	Details	
	Used: 3,840 kbytes Committed: 5,024 kbytes Max: 523,136 kbytes GC time: 0.484 seconds seconds on Copy (98 collections)	75% 50% 25% 0%

The following is a screenshot which shows the Listening thread on port 8080 -

▼ J2SE 5.0 Monitoring & Management Console: 1075@localhost _ C					
Connection					
Summary	Memory	Threads	Classes	MBeans	VM
		1			Time Range: All
Number of 1 ³⁰ T	Threads				
25 -					Total Started
20					Peak √ ²² Live Threads
-Live Thread				16:4	1 16:42 x
derby.raw SimpleThi SimpleThi SimpleQu btpool0-0 btpool0-1 btpool0-2 DestroyJa RMI TCP C RMI Lease	StoreDaem eadPoolWo eadPoolWo readPoolWo artzSchedul - Invalidator - Invalidator - AcceptorO waVM connection(*	orker-0 orker-1 orker-2 ler_QuartzSi * - <i>l</i> jnlp	nector @ 0.0		State: RUNNABLE Total blocked: 0 Total waited: 0 Stack trace: java.net.PlainSocketImpl.socketAccept(Native Method) java.net.PlainSocketImpl.accept(PlainSocketImpl.java:384) java.net.ServerSocket.implAccept(ServerSocket.java:450) java.net.ServerSocket.accept(ServerSocket.java:421) org.mortbay.jetty.bio.SocketConnector.accept(SocketConnector.java:97) org.mortbay.jetty.AbstractConnector\$Acceptor.run(AbstractConnector.java:498) org.mortbay.thread.BoundedThreadPool\$PoolThread.run(BoundedThreadPool.java:475)
Filter:					X

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.



Elixir Technology Pte Ltd 50 Armenian Street, #04-04 Wilmer Place Singapore 179938 Tel: +65 6532 4300 Fax: +65 6532 4255 Email: sales@elixirtech.com Website: www.elixirtech.com