

JXINSIGHT INSIGHT

JXInsight Insight is an extensible and configurable repository inspection solution that enables the JXInsight application management and monitoring console to display additional state information acquired from a server's (local and remote) repositories.

Having the ability to access such detailed runtime configuration and state information from a production JVM is crucial in resolving service performance and outage problems.

JXInsight Insight innovative data collection system ensures that the information to identify root cause analysis is nearly always available, without the need to consume costly resources attempting to replicate production problems.

The Importance of State

For developers this state information provides a level of detail normally provided by a Java debugger but without the runtime overhead.

For testers the state information can be stored for change and configuration management activities.

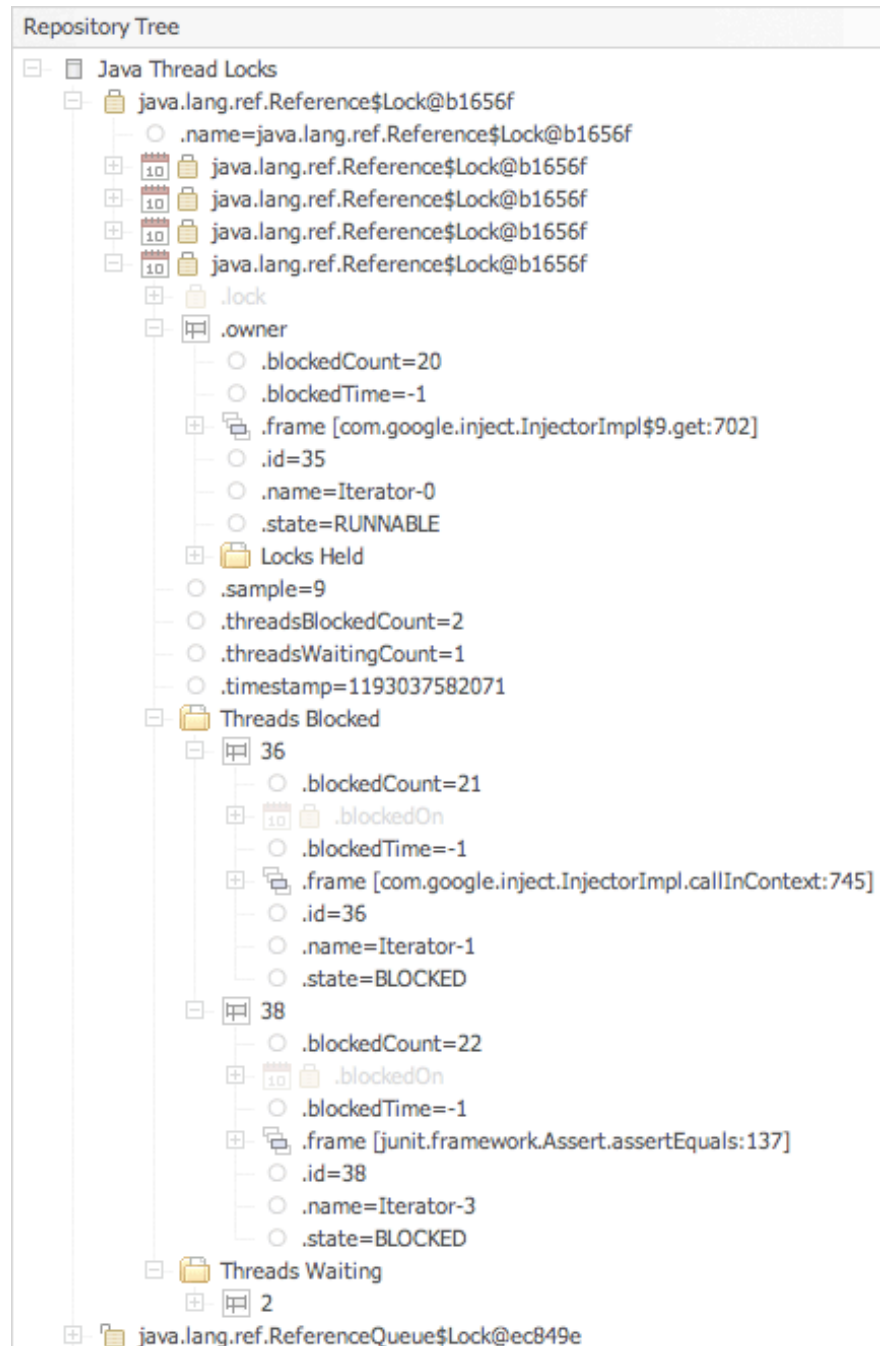
With the ability to configure the automatic export of information from multiple repositories in the event of a runtime event (request failure, performance slowdown, JVM shutdown) operations and support staff have a powerful tool for post analysis of related incidents and service calls.

Consolidation of Models

Consolidating the performance profile, metric and tracing information with the runtime state and configuration enables remote support staff to work on resolving issues without the need to have actual physical access to the production systems.

Configuration Model

JXInsight Insight is based on the same principles of a configuration management model treating runtime dynamic state similar to static configuration state stored on a file system.



Extensions Packs

JXInsight Insight includes more than 30+ extensions that collect state information from various repositories including those external to a Java runtime such as the table and column meta data associated with a JDBC DataSource deployed in a JNDI service.

The image displays four screenshots from the JXInsight tool, illustrating its capabilities in monitoring Java runtime state and external services.

- Repository Tree (Top Left):** Shows a hierarchical view of the Java Naming repository. It includes sub-repositories for InitialContext, ejb, and jdbc. A detailed view of the `com.sun.enterprise.connectors.ConnectionManagerImpl` class is shown, listing its package, superclass (`java.lang.Object`), implemented interfaces (`java.io.Serializable`, `javax.resource.spi.ConnectionManager`), and code sources.
- Tree (Top Right):** Displays the state of a `Tangosol Coherence` Cluster. It shows various attributes such as `.class=SafeCluster`, `.identityHashCode=12208083`, `.localMember`, `.address`, `.id=1`, `.identityHashCode=4569612`, `.machineId=32513`, `.port=8088`, `.timestamp=1153296403925`, `.uid [0x7F0000010000010C85D28DD57F011F98]`, `.memberSet`, `.oldestMember`, `.running=true`, `.services`, `.info`, `.timeMillis=1153296867552`, and `.SimpleCache`.
- Java Classes (Bottom Left):** Shows a tree of class loaders. It details the `org.jboss.system.server.Server` class, including its code source (`file:/Volumes/EXTERNAL/jboss-5.0.0.Beta1/bin/run.jar`), loaded classes, and implemented interfaces like `org.jboss.system.server.Server`.
- Tree (Bottom Right):** Displays the state of an `Apache Tomcat (Active Sessions)` instance. It shows attributes for `[jboss.web/localhost]/bank`, including `.activeSessions=1`, `.class=StandardContext`, `.identityHashCode=11263312`, `HttpSessions`, `A7CE2F7DC31506FA35AE0C78F1899297`, `.serializedSize=13`, `Attributes`, `customerBean`, `.beanManager`, `.acctctl`, `.class=BeanManager`, `.custctl`, `.identityHashCode=6721750`, `.txctl`, `.class=$Proxy79`, `.h`, `.class=ClientContainer`, `.context`, `.identityHashCode=14799861`, `.next`, `.identityHashCode=2822886`, `.super`, `.class=CustomerBean`, `.customer=`, `.identityHashCode=16049907`, `javax.servlet.jsp.jstl.fmt.request.charset [ISO-8859-1]`, `.class=String`, `.identityHashCode=2457415`, `.toString=ISO-8859-1`, `NotSerializable`, and `customerBean=com.sun.ebank.web.CustomerBean`.