

JackRabbit Configuration

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Application Bundle

- Runs within the same JVM
- Application is responsible for starting and stopping the repository.
- No network layer required¹
- Only the containing application may access the repository.

¹A network layer may still be required based on database backend configuration.

J2EE Resource

- Runs within the same application server context.
- Repository started and stopped along with the application server.
- No network layer required²
- Application may use application server single-sign on, XA features etc.
- Any application deployed on the application server may access the repository.

²A network layer may still be required based on database backend configuration.

Repository Server

- The content repository is run as a stand-alone server.
- JCR client API accesses the repository over RMI or WebDAV.
- The transport protocol is not defined in the JCR spec.
- Any number of client applications may access the repository server.

Requirements

- The repository home directory.
- The repository configuration file. Specified as a XML file conforming to DTD's published by the JackRabbit project.

Repository Configuration

Mandatory

- FileSystem** The virtual file system used by the repository to store things like registered namespaces and node types.
- Security** Authentication and authorization configuration.
- Workspaces** Configuration on where and how workspaces are managed.
- Workspace** Default workspace configuration template.
- Versioning** Configuration of the repository-wide version store.

Repository Configuration

Optional

SearchIndex Configuration of the search index that covers the repository-wide /jcr:system content tree.

Cluster Clustering configuration.

DataStore Data store configuration. Used to store large binary objects outside database.

PersistenceManager

- Handles persistence of nodes and properties.
- Each workspace and version storage maintains their own PM instance.
- Bundle PM's are usually fastest as they persist a node with all its properties as one blob.
- Various implementations such as database, filesystem, XML, object . . .