

Documentation

Welcome to the Apache Geronimo v2.1 documentation. This is a work in progress and the documentation is to be updated frequently based on the newer release.

To help you find the content you are looking for we are separating the documentation in two main groups, User's guide and Developer's guide. In a nutshell, the former is mostly targeted to system administrators and overall users that will be installing and configuring Geronimo and applications. The latter on the other hand is targeted to application developers, the idea is to provide all the info you need to know to develop applications and to get the most of them (and your time) when deploying to Geronimo.

So, how are we doing this? [Check this out!](#)

User's guide

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 - Global JNDI for resources and admin objects
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 - RELEASE-NOTES-2.1.6.TXT
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 - Configuring Kerberos Realm
 - Configuring SSL client authentication
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 - Configuring JMS
 - Configuring the Transaction Manager Identity
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- Configuring Virtual Hosts in Geronimo-Jetty
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 - Message Driven Bean deployment plan
 - Java Persistence API deployment plans
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 - Installing a Console Extension in .car format from a repository
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 - How to Develop an Administrator Console Extension (ACE)
- **Plugin infrastructure**
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 - Plugin infrastructure/architecture
 - plugin.xml
 - Plugins install
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- Connectors and Transaction Management (JDBC, JMS, J2CA, DataSource, Connection Pool, EIS)
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 - Basic Hints on Security Configuration
 - Configuring JavaEE App Client Security
 - Configuring login modules
 - Configuring run-as and Default Subjects, and principal-role mapping
 - OpenID
 - Replace default realm with others
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 - Devtools
 - Geronimo eclipse plugin
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- Migrating to Apache Geronimo
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 - Deployment descriptor changes for going from G 1.1 to G 2.1
 - JBoss to Geronimo - EJB-BMP Migration (Unverified on 2.1)
 - JBoss to Geronimo - EJB-Session Beans Migration
 - JBoss to Geronimo - Hibernate Migration
 - JBoss to Geronimo - JDBC Migration
 - JBoss to Geronimo - Servlets and JSPs Migration
 - Migrating with the J2G Migration Tool
- Clustering
 - Farming
 - Tomcat Native Clustering
 - WADI Clustering Support
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 - Servlets/EJBs/AppClients
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 - Standalone Clients
 - InitialContext configuration
 - Global JNDI names for EJBs
 - Windows Remote EJB Performance
- Troubleshooting
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- Sample Applications
 - app-per-port - Running multiple web apps on different ports
 - bank - EJB sample application
 - calculator - Using EJB 3.0 Functions
 - customer - Simple ejb application with a JPA entity
 - dbtester - DB Pool Testing sample application
 - inventory - Simple Database Access Application
 - jaxws-calculator - Simple Web Service with JAX-WS
 - jms-mdb - JMS and MDB Sample Application
 - ldap-sample-app - LDAP Sample Application
 - myphonebook - Very Simple Entity EJB Example
 - mytime - Very Simple Session EJB Example
 - not-in-svn - Inbound JCA example
 - sendmail - Using Geronimo's Default JavaMail Session
 - timereport - Web Application Security Sample

Developer's guide

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 - [Apache Geronimo Development Tools Project](#)
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 - [Apache Maven](#)
 - [Web Tools Platform \(WTP\)](#)
 - [Geronimo Eclipse Plugin](#)
 - [JBoss to Geronimo Migration Tool \(J2G\)](#)
 - [Maven Integration for Eclipse](#)
 - [Installing Eclipse](#)
 - [WTP All-in-One package](#)
 - [Eclipse and WTP downloaded separately](#)
 - [Using Ant script from GEP build](#)
 - [Installing Geronimo Eclipse Plugin](#)
 - [Install GEP Using WTP](#)
 - [Install GEP Using Eclipse Update Manager](#)
 - [Manual Installation of GEP](#)
 - [Geronimo Server Runtimes and Servers](#)
 - [Defining a Geronimo Server Runtime](#)
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 - [Creating a new project](#)
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 - Resource adapters
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 - Geronimo plugin architecture
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- [Development and deployment planning](#)
 - Configuring Application Specific Logging with Log4j
 - Executing SQL statements at Deployment Time
 - Locating your application specific configuration files
 - Quick Debugging JSPs of your application
 - Using datasource pool wizard in GEP
 - Using security realm wizard in GEP
- [Building Geronimo](#)
 - with maven
 - from eclipse
 - Custom server assemblies
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 - [Web applications](#)
 - [Hello World Web Application](#)
 - [Web application for JMS access](#)
 - [Web Application for EJB access](#)
 - [Web Application for JDBC access](#)
 - [JavaServer Faces](#)

- [Developing a Simple JavaServer Faces application](#)
- [AJAX with JSF](#)
- [Using JSP Immediate Expressions to access JSF](#)
- [User Interface development with JSF](#)
- [JSF application to perform create, delete, update operation against a database table](#)
- [Application clients](#)
 - [Deploy and Run a Java EE Application Client](#)
 - [Developing an Application Client to access EJB](#)
- [EJB applications](#)
 - [5-minute Tutorial on Enterprise Application Development with Eclipse and Geronimo](#)
 - [Stateless Session Bean](#)
 - [Stateful Session Bean](#)
 - [JMS application with Message-Driven Bean](#)
 - [Container Managed Persistence with JPA](#)
 - [Bean Managed Persistence with JPA](#)
- [Web services](#)
 - [Developing a simple Calculator Web Service](#)
 - [Developing JAX-RPC Web Services](#)
 - [Migrating from JAX-RPC to JAX-WS](#)
 - [Developing a JAX-WS POJO Web Service](#)
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 - [Developing Clients for a JAX-WS Web Service](#)
 - [RESTful Web Services](#)
 - [Developing a simple RESTful Service](#)
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 - [SAAJ Messaging Web Services](#)
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 - [Using Java Persistence API in application client](#)
 - [Working with JSF and JPA](#)
- [Annotations](#)
 - [JAX-WS web service and client using annotations](#)
- [Geronimo plugins](#)
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 - [Custom server assemblies using Geronimo Administrative console](#)
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