

# Plugin Group

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A plugin group is basically a set of plugins for users to easily understand and consume.

[Customizing server assemblies](#) will be easier and a plugin group can be managed as a regular plugin by using `deploy` command. There are over 11 pre-defined groups for different distribution with Web Container such as Tomcat and Jetty. We take Tomcat as an example here and introduce each plugin group and what plugins are included:

## 1. Geronimo Plugin Group :: Framework

- Description: This plugin group provides the framework functionality. It is required to build a working server.
- Plugin included:

Plugin name	ModuleId	description
Geronimo Assemblies :: Karaf Boilerplate Framework	org.apache.geronimo.framework/karaf-framework//car	Provides OSGi framework for Geronimo kernel to run.
Geronimo Framework, Modules :: Shell Commands	org.apache.geronimo.framework/geronimo-shell-base//car	Provides Geronimo-specific commands in karaf shell.
Geronimo Framework, Configs :: J2EE System	org.apache.geronimo.framework/j2ee-system//car	Provides base geronimo server that sets up the kernel.
Geronimo Framework, Configs :: Client System	org.apache.geronimo.framework/client-system//car	Provides initial configuration for a demo Geronimo server.
Geronimo Framework, Configs :: RMI Naming	org.apache.geronimo.framework/rmi-naming//car	Provides fundamental geronimo services including the plugin installer.
Geronimo Framework, Configs :: Plugin Management	org.apache.geronimo.framework/plugin//car	Provides plugin functionality.
Geronimo Framework, Configs :: J2EE Security	org.apache.geronimo.framework/j2ee-security//car	Provides basic Geronimo server security infrastructure.
Geronimo Framework, Configs :: Server Security Configuration	org.apache.geronimo.framework/server-security-config//car	Provides sample security configuration for a demo Geronimo server. Not suitable for production use.
Geronimo Framework, Configs :: Shutdown	org.apache.geronimo.framework/shutdown//car	Provides stop server functionality.
Geronimo Framework, Configs :: JSR-88 CLI	org.apache.geronimo.framework/jsr88-cli//car	Provides command line implementation of JSR-88 specification.
Geronimo Framework, Configs :: Online Deployer	org.apache.geronimo.framework/online-deployer//car	Provides deployment functionality when the server is up and running.

## 2. Geronimo Plugin Group :: WADI Clustering Tomcat

- Description: This plugin group provides WADI Clustering functionality for Tomcat.
- Plugins included:

Plugin name	ModuleId	description
Geronimo Plugins, Clustering :: Farming	org.apache.geronimo.configs/farming//car	Provides basic farming support.
Geronimo Plugins, Clustering :: WADI	org.apache.geronimo.configs/wadi-clustering//car	Provides Geronimo WADI integration.
Geronimo Plugins, Tomcat :: Clustering Builder for WADI	org.apache.geronimo.configs/openejb-clustering-builder-wadi//car	Provides openejb and WADI integration.
Geronimo Plugins, Tomcat :: Clustering over WADI	org.apache.geronimo.configs/tomcat7-clustering-builder-wadi//car	Provides deployment for WADI clustering on Tomcat 7.

## 3. Geronimo Plugin Group :: ejb

- Description: This plugin group provides EJB functionality.
- Plugins included:

Plugin name	ModuleId	description
Geronimo Plugins, Corba :: Deployer	org.apache.geronimo.configs/openejb-corba-deployer//car	Provides the Geronimo deployer for corba security configurations for openejb.
Geronimo Plugins, Corba :: Yoko ORB	org.apache.geronimo.configs/j2ee-corba-yoko//car	Provides Yoko Orb server setup with naming service, protected orb, and unprotected orb.
Geronimo Plugins, MEJB :: Config	org.apache.geronimo.configs/openejb//car	Management EJB plugin.
Geronimo Plugins, OpenEJB :: Deployer	org.apache.geronimo.configs/openejb-deployer//car	Geronimo Deployer for OpenEJB Container.

4. Geronimo Plugin Group :: JMS
- Description: This plugin group provides JMS functionality.
  - Plugins included:

Plugin name	ModuleId	description
Geronimo Plugin Group :: Framework	org.apache.geronimo.framework.plugingroups/framework//car	Provides the framework functionality. It is required to build a working server.
Geronimo Plugins, ActiveMQ v5 :: Broker using blueprint	org.apache.geronimo.configs/activemq-broke-blueprint//car	Provides Apache ActiveMQ v5 integration iwth Geronimo. This module starts an activemq broker embedded in Geronimo.
Geronimo Plugins, ActiveMQ v5 :: Resource Adapter	org.apache.geronimo.configs/activemq-ra//car	Provides Geronimo ActiveMQ v5 integration: ActiveMQ v5 resource adapter connecting to (embedded) activemq broker.

5. Geronimo Plugin Group :: Client
- Description: This plugin group provides Client functionality.
  - Plugins included:

Plugin name	ModuleId	description
Geronimo Plugins, Corba :: Client Yoko	org.apache.geronimo.configs/client-corba-yoko//car	Provides Geronimo deployer for corba security configurations for openejb.
Geronimo Plugins, Client :: Deployer	org.apache.geronimo.configs/client-deployer//car	Provides Geronimo deployer for standard JEE artifacts.

6. Geronimo Plugin Group :: Persistence
- Description: This plugin group provides Persistence functionality.
  - Plugins included:

Plugin name	ModuleId	description
Geronimo Plugin Group :: WAB Tomcat	org.apache.geronimo.framework.plugingroups/framework//car	Provides the framework functionality. It is required to build a working server.
Geronimo Plugins, OpenJPA2 :: Deployer	org.apache.geronimo.configs/persistence-jpa20-deployer//car	Provides Geronimo Persistence Unit deployer.
Geronimo Plugins, OpenJPA2 :: CAR	org.apache.geronimo.configs/openjpa2//car	Provides OpenJPA2 together with all its dependencies.

7. Geronimo Plugin Group :: WAB Tomcat
- Description: This plugin group provides support for OSGi Web Applications on Tomcat.
  - Plugins included:

Plugin name	ModuleId	description
Geronimo Plugin Group :: Framework	org.apache.geronimo.framework.plugingroups/framework//car	Provides the framework functionality. It is required to build a working server.
Geronimo Plugins, Tomcat :: Deployer	org.apache.geronimo.configs/tomcat7-deployer//car	Provides the Geronimo deployer for Tomcat web container.
Geronimo Plugins, WAB :: Web Extender Plugin	org.apache.geronimo.configs/web-extender//car	Provides the Web Extender for OSGi applications.
Geronimo Framework, Configs :: Offline Deployer	org.apache.geronimo.framework/offline-deployer//car	Provides the deployer functionality when the server is not running.
Geronimo Plugins, J2EE :: JSR-88 EAR Configurererr	org.apache.geronimo.configs/jsr88-ear-configurer//car	Provides the deployer for Java EAR applications.
Geronimo Plugins, J2EE :: JSR-88 WAR Configurererr	org.apache.geronimo.configs/jsr88-war-configurer//car	Provides the deployer for Java WAR applications.
Geronimo Plugins, Remote Deploy :: Tomcat	org.apache.geronimo.configs/remote-deploy-tomcat//car	Supports Geronimo remote deploy upload servlet (Tomcat).
Geronimo Plugins, Jasper :: Deployer	org.apache.geronimo.configs/jasper-deployer//car	Provides the deployer for Jasper jsps. Installs injection support components.
Geronimo Plugins, MyFaces :: Deployer	org.apache.geronimo.config/myfaces-deployer//car	Provides the deployer for MyFaces JSF component.

8. Geronimo Plugin Group :: EBA Tomcat
- Description: This plugin group provides Web Services Axis2 functionality.
  - Plugins included:

Plugin name	ModuleId	description
Geronimo Plugin Group :: WAB Tomcat	org.apache.geronimo.plugingroups/wab-tomcat//car	Provides support for OSGi Web Applications on Tomcat.
Geronimo Plugins, Aries :: Deployer	org.apache.geronimo.configs/aries-deployer//car	Provides the deployer for Aries applications.

Geronimo Plugin Group :: Persistence	org.apache.geronimo.plugingroups/persistence//car	Provides persistence functionality.
Geronimo Plugins, Connector 1.6 :: Transaction Manager (JTA11)	org.apache.geronimo.configs/transaction-1_6//car	Provides transaction functionality.
Geronimo Plugins, Connector 1.6 :: connector deployer	org.apache.geronimo.configs//connector-deployer-1_6	Provides the deployer for J2CA connectors.
Geronimo Plugins, J2EE :: Deployer	org.apache.geronimo.configs/j2ee-deployer//car	Provides basic JavaEE deployer functionality including the ear deployer.
Geronimo Plugins, J2EE :: Server	org.apache.geronimo.configs/j2ee-server//car	Provides basic Geronimo JavaEE support components including transaction manager and connector framework.
Geronimo Plugins, System Database :: System Database	org.apache.geronimo.configs/system-database//car	Provides system databases together with its dependencies.
Geronimo Plugins, Connector 1.6 :: Database Connectors	org.apache.geronimo.configs/dbconnectors//car	Is used by the System Database Console and higher level plugingroups to deliver a default set of TranQL connectors in our assemblies.

9. Geronimo Plugin Group :: Java EE 6 Web Profile Tomcat

- Description: This plugin group provides Java EE 6 Web Profile via Tomcat functionality.
- Plugins included:

Plugin name	ModuleId	description
Geronimo Plugin Group :: Framework	org.apache.geronimo.framework.plugingroups/framework//car	Provides the framework functionality. It is required to build a working server.
Geronimo Plugin Group :: EBA Tomcat	org.apache.geronimo.plugingroups/eba-tomcat//car	Provides Web Services Axis2 functionality.
Geronimo Plugins, Console :: Tomcat	org.apache.geronimo.plugingroups/console-tomcat//car	Provides the base console portlets.
Geronimo Plugin Group :: ejb	org.apache.geronimo.plugingroups/ejb//car	Provides EJB functionality.
Geronimo Plugins, BVal :: Deployer	org.apache.geronimo.configs/bval-deployer//car	Provides bean validation integration with Geronimo.
Geronimo Plugins, OpenWebBeans :: Deployer	org.apache.geronimo.configs/openwebbeans-deployer//car	Provides open webbeans integration with Geronimo.
Geronimo Framework, Configs :: JMX Security Configuration	org.apache.geronimo.framework/jmx-security//car	Provides Secure (SSL/TSL) JMX Connector.
Geronimo Plugins, Welcome :: Tomcat	org.apache.geronimo.configs/welcome-tomcat//car	Provides welcome application for Geronimo. It should be removed or replaced for production applications.

10. Geronimo Plugin Group :: Java EE 6 Tomcat

- Description: This plugin group provides Java EE 6 Tomcat functionality.
- Plugins included:

Plugin name	ModuleId	description
Geronimo Plugin Group :: Java EE 6 Web Profile Tomcat	org.apache.geronimo.plugingroups/javaee6-web-tomcat//car	Provides Java EE 6 Web Profile via Tomcat functionality.
Geronimo Plugin Group :: Client	org.apache.geronimo.plugingroup/client//car	Provides Client functionality.
Geronimo Plugin Group :: JMS	org.apache.geronimo.plugingroups/jms//car	Provides JMS functionality.
Geronimo Plugin Group :: Web Services Axis2	org.apache.geronimo.plugingroups/webservices-axis2//car	Provides Web Services Axis2 functionality.
Geronimo Plugins, JavaMail :: JavaMail	org.apache.geronimo.configs/javamail//car	Provides Geronimo JavaMail support.

11. Geronimo Plugin Group :: Web Services Axis2

- Description: This plugin group provides Web Services Axis2 functionality.
- Plugins included:

Plugin name	ModuleId	description
Geronimo Plugins, AXIS2 :: Deployer	org.apache.geronimo.configs/axis2-deployer//car	Provides the web Services Deployer for Geronimo Axis 2 integration.

12. Geronimo Plugin Group :: Web Services CXF

- Description: This plugin group provides Web Services CXF functionality.
- Plugins included:

Plugin name	ModuleId	description
Geronimo Plugins, AXIS :: Deployer	org.apache.geronimo.configs/axis-deployer//car	Provides web Services Deployer for Geronimo Axis 1 integration.

Geronimo Plugins, CXF :: Deployer	org.apache.geronimo.configs/cxf-deployer//car	Provides Geronimo JAX-WS deployer for Apache CXF.
Geronimo Plugins, CXF :: EJB Deployer	org.apache.geronimo.configs/cxf-ejb-deployer//car	Provides Geronimo JAX-WS EJB deployer for Apache CXF.
Geronimo Plugins, JAXWS :: Tools	org.apache.geronimo.configs/jaxws-tools//car	Provides JAX-WS command line tools.
Geronimo Plugins, CXF :: Tools CLI	org.apache.geronimo.configs/cxf-tools//car	Provides CXF JAX-WS command line tools.