

Running Hudson on Geronimo v3.0

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This short document is about the steps to deploy [Hudson](#) onto Apache Geronimo v3.0. Hudson is a easy-to-use integration system. You can go and read the details on its [web site](#). No need to duplicate their stuff here.

The planplan

The plan configures a security realm **hudson-realm** as well as **/hudson** as a context for **hudson.war**.

```
xmlsolidehudson-realm.xml <?xml version="1.0" encoding="UTF-8"?> <module xmlns="http://geronimo.apache.org/xml/ns/deployment-1.2">
<environment> <moduleId> <groupId>console.realm</groupId> <artifactId>hudson-realm</artifactId> <version>1.0</version> <type>car</type> <
/moduleId> <dependencies> <dependency> <groupId>org.apache.geronimo.framework</groupId> <artifactId>j2ee-security</artifactId> <type>car</type> <
/dependency> </dependencies> </environment> <gbean name="hudson-realm" class="org.apache.geronimo.security.realm.GenericSecurityRealm" xsi:
type="dep:gbeanType" xmlns:dep="http://geronimo.apache.org/xml/ns/deployment-1.2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<attribute name="realmName">hudson-realm</attribute> <attribute name="global">false</attribute> <reference name="ServerInfo"> <name>ServerInfo<
/name> </reference> <xml-reference name="LoginModuleConfiguration"> <log:login-config xmlns:log="http://geronimo.apache.org/xml/ns/loginconfig-2.0">
<log:login-module control-flag="REQUIRED" wrap-principals="false"> <log:login-domain-name>hudson-realm</log:login-domain-name> <log:login-module-
class>org.apache.geronimo.security.realm.providers.PropertiesFileLoginModule </log:login-module-class> <log:option name="usersURI">var/security
/users.properties </log:option> <log:option name="groupsURI">var/security/groups.properties </log:option> </log:login-module> </log:login-config> </xml-
reference> </gbean> </module>
```

It appears that Hudson uses a customized version of Apache JEXL made specifically for itself, so filtering the package from the web classloader is required. Note that `<hidden-classes/>` tag is not supported in Geronimo 3.0 any more, you can use `<import-package>!org.apache.commons.lang.*</import-package>` to keep `org.apache.common.lang.*` package in Geronimo server repository from loading into the classloader.

```
xmlhudson-geronimo-plan.xmlsolid <?xml version="1.0" encoding="UTF-8"?> <web-app xmlns="http://geronimo.apache.org/xml/ns/j2ee/web-2.0">
<environment xmlns="http://geronimo.apache.org/xml/ns/deployment-1.2"> <moduleId> <groupId>hudson</groupId> <artifactId>hudson</artifactId>
<version>2.0.0</version> <type>war</type> </moduleId> <dependencies> <dependency> <groupId>org.apache.geronimo.framework</groupId>
<artifactId>j2ee-security</artifactId> <type>car</type> </dependency> <dependency> <groupId>console.realm</groupId> <artifactId>hudson-realm<
/artifactId> <version>1.0</version> <type>car</type> </dependency> </dependencies> <import-package>!org.apache.commons.*</import-package>
<import-package>!com.thoughtworks.*</import-package> <import-package>!org.dom4j.*</import-package> <!-- <hidden-classes> <filter>org.apache.
commons.lang.</filter> <filter>org.apache.commons.jexl.</filter> <filter>com.thoughtworks.xstream.</filter> </hidden-classes> --> </environment>
<context-root>hudson</context-root> <security-realm-name>hudson-realm</security-realm-name> <security> <default-principal realm-name="hudson-
realm"> <principal name="anonymous" class="org.apache.geronimo.security.realm.providers.GeronimoUserPrincipal" /> </default-principal> <role-
mappings> <role role-name="admin"> <realm realm-name="hudson-realm"> <principal name="AdminGroup" class="org.apache.geronimo.security.realm.
providers.GeronimoGroupPrincipal" /> </realm> <principal name="system" class="org.apache.geronimo.security.realm.providers.GeronimoUserPrincipal"
/> </role> </role-mappings> </security> </web-app>
```

The plan filters out **org.apache.commons** package that comes with Apache Commons Lang 2.5 in Geronimo 3.0. As of Hudson 2.0.0, Apache Commons Lang 2.4 is required and is already included in the war file.

Starting Geronimo

Run Geronimo with `./bin/geronimo.sh run -vv` command.

```
solid jeffchi@jeffchi-laptop:~/Geronimo/3.0$ ./bin/startup Using GERONIMO_HOME: /home/jeffchi/Geronimo/3.0 Using GERONIMO_TMPDIR: var/temp
Using JRE_HOME: /opt/sun/jdk6_22/jre Using GERONIMO_OUT: /home/jeffchi/Geronimo/3.0/var/log/geronimo.out Geronimo started in background. PID:
13075
```

Deploying hudson-realm

```
solid jeffchi@jeffchi-laptop:~/Geronimo/3.0$ ./bin/deploy.sh -u system -p manager deploy hudson-realm.xml Using GERONIMO_HOME: /home/jeffchi
/Geronimo/3.0 Using GERONIMO_TMPDIR: var/temp Using JRE_HOME: /opt/sun/jdk6_22/jre Deployed console.realm/hudson-realm/1.0/car
```

Deploying hudson.war


Download **hudson.war** from [its releases web page](#).


You can deploy **hudson.war** from the web console of Geronimo, but there's another way to do the same - executing **deploy** command from the command line interface.

```
solid jeffchi@jeffchi-laptop:~/Geronimo/3.0$ ./bin/deploy.sh -u system -p manager deploy hudson.war hudson-geronimo-plan.xml Using
GERONIMO_HOME: /home/jeffchi/Geronimo/3.0 Using GERONIMO_TMPDIR: var/temp Using JRE_HOME: /opt/sun/jdk6_22/jre Deployed hudson/hudson
/2.0.0/war @ /hudson
```

Running the webapp


Point the browser of your choice to <http://localhost:8080/hudson/>. You should see hudson's welcome page.


http://localhost:8080/hudson/


Dashboard [Hudson] 


Hudson

Hudson

 [New Job](#)

 [Manage Hudson](#)

 [People](#)

 [Build History](#)

Welcome to Hudson! Please [create new jobs](#) to get started.

Build Queue

No builds in the queue.

Build Executor Status

#	Status
1	Idle
2	Idle