

Running Hudson on Geronimo

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Most of the customizations of the configuration files are due to **David Wu** who graciously helped tracking down and fixing all the `NoSuchMethodErrors` that appeared along the way.

This short document is about the steps to deploy [Hudson](#) onto Apache Geronimo 2. Hudson is a....go and read it on its [web site](#). No need to duplicate their stuff here.

Geronimo 2.0.2 uses XStream 1.1.3. Hudson requires some methods of XStream that are only available in earlier versions and to deploy hudson successfully onto Geronimo, it's recommended to delete `xstream-1.1.3.jar` from Geronimo's lib directory and place [xstream-1.2.2.jar](#) instead. The latest releases of Geronimo have the file already replaced and there's no need to bother about it anymore if you're on Geronimo 2.0.2+.

The planplan

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

The plan filters out **org.apache.commons.lang** package that comes with Apache Commons Lang 2.0 in Geronimo 2.0.2. As of Hudson 1.160, Apache Commons Lang 2.1 is required and is already included in the war file.

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.

```
xmlsolidhudson-geronimo-plan.xml <?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>1.166</version> <type>war</type> </moduleId> <dependencies> <dependency> <groupId>org.apache.geronimo.configs</groupId>
<artifactId>j2ee-security</artifactId> <type>car</type> </dependency> </dependencies> <hidden-classes> <filter>org.apache.commons.lang.</filter>
<filter>org.apache.commons.jexl.</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>
```

Starting Geronimo

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

```
solid jlaskowski@dev /cygdrive/c/geronimo-jetty6-jee5-2.0.2 $ ./bin/geronimo.sh run -vv Using GERONIMO_BASE: c:\geronimo-jetty6-jee5-2.0.2 Using
GERONIMO_HOME: c:\geronimo-jetty6-jee5-2.0.2 Using GERONIMO_TMPDIR: c:\geronimo-jetty6-jee5-2.0.2\var\temp Using JRE_HOME: c:
\apps\java5\jre ... Geronimo startup complete
```

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 on the command line.

```
solid jlaskowski@dev /cygdrive/c/geronimo-jetty6-jee5-2.0.2 $ ./bin/deploy.sh -u system -p manager deploy hudson.war hudson-geronimo-plan.xml Using
GERONIMO_BASE: c:\geronimo-jetty6-jee5-2.0.2 Using GERONIMO_HOME: c:\geronimo-jetty6-jee5-2.0.2 Using GERONIMO_TMPDIR: c:\geronimo-
jetty6-jee5-2.0.2\var\temp Using JRE_HOME: c:\apps\java5\jre Deployed hudson/hudson/1.166/war @ /hudson
```

The Geronimo console shows deployment progress as follows:

```
solid hudson home directory: C:\Documents and Settings\jlaskowski\hudson 2008-01-05 18:23:08 hudson.TcpSlaveAgentListener <init> INFO: JNLP
slave agent listener started on TCP port 1545 2008-01-05 18:23:09 hudson.model.Hudson load INFO: Took 890 ms to load 18:23:13,515 INFO
[StaticWebApplicationContext] Refreshing org.springframework.web.context.support.StaticWebApplicationContext@2eec5a: display name [Root
WebApplicationContext]; startup date [Sat Jan 05 18:23:13 CET 2008]; root of context hierarchy 18:23:13,515 INFO [StaticWebApplicationContext] Bean
factory for application context [org.springframework.web.context.support.StaticWebApplicationContext@2eec5a]: org.springframework.beans.factory.
support.DefaultListableBeanFactory@12333fb 18:23:13,546 INFO [DefaultListableBeanFactory] Pre-instantiating singletons in org.springframework.beans.
factory.support.DefaultListableBeanFactory@12333fb: defining beans [filter,legacy]; root of factory hierarchy
```

Running the webapp

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

Dashboard [Hudson] - Mozilla Firefox

File Edit View History Bookmarks Tools Help delicious

http://localhost:8080/hudson/

Hudson

search ?

Hudson

[New Job](#) [Manage Hudson](#)

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


[add description](#)

Build Queue

No builds in the queue.

Build Executor Status

No.	Status
1	Idle
2	Idle



[Hudson ver. 1.166](#)

http://localhost:8080/hudson/?auto_refresh=true

Setting up a new Maven2 job in hudson works fine too.

MyNewMaven2Project Config [Hudson] - Mozilla Firefox

File Edit View History Bookmarks Tools Help delicious.us

http://localhost:8080/hudson/job/MyNewMaven2Project/configure

Hudson

Hudson » MyNewMaven2Project

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[Workspace](#)

[Build Now](#)

[Delete Project](#)

[Configure](#)

Build Queue

No builds in the queue.

Build History (trend)

[for all](#) [for failures](#)

Project name

Description

☐ Discard Old Builds

Disable Build ☐ (No new builds will be executed until the project is re-enabled.)

Advanced Project Options

[Advanced...](#)

Source Code Management

☒ None

☐ CVS


☐ Subversion

Build Triggers

☐ Poll SCM

☐ Build periodically

Build

Maven Version  **Hudson needs to know where your Maven2 is installed. Please do so from [the system configuration](#).**

Root POM

Goals

[Advanced...](#)

Build Settings

☐ E-mail Notification

[Save](#)

Hudson ver. 1.166

Done