

# JBossAntBuilder

## JBoss application Ant builder

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## 1. Overview

**JBossAntBuilder:** *JBoss application Ant builder*

### 1.1. Intent

To Provide an environment and set of standard build commands to build a jboss based application suitable for deployment to a jboss server.

- Support java/ant based build environment.
- Support jboss dependencies at build time.
- Promote reuse of the AntBuilder build module.
- Register built packages into the ControlTier package repository for future deployment.

### 1.2. Problem

In order to build a deployable jboss artifact, a jboss server dependency may be needed at compile time. This module provides integration between a dependent jboss server package and the standard Builder runBuildScript command.

### 1.3. Discussion

See [AntBuilder](#) module as this describes the general approach of automating builds.

### 1.4. Example

See AntBuilder#Example.

### 1.5. Check List

See AntBuilder#Check\_List.

## 2. Design

**Super Type**  
[AntBuilder](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>
Notification	<b>false</b>
Template Directory	

Data View	Children, proximity: 1
Logger Name	JBossAntBuilder

### 3. Constraints

#### 3.1. Allowed Child Dependencies

- AntBuilderAntArgs1
- AntBuilderAntOpts1
- [AntZip](#) 1
- BuilderAntHome1
- BuilderAutoUpdate1
- BuilderBuildFile1
- BuilderBuildstamp1
- BuilderBuildTarget1
- BuilderImportMax1
- BuilderImportMin1
- BuilderJavaHome1
- [BuilderJBossHome](#) 1
- BuilderNotificationList1
- BuilderPackageBuildtimePattern1
- BuilderPackageExtension1
- BuilderPackageFilebase1
- BuilderPackageInstallRank1
- BuilderPackageInstallRank1
- BuilderPackageInstallroot1
- BuilderPackageRequireBuildstamp1
- BuilderPackageSeparator1
- BuilderPackageType1
- BuilderPackageVendor1
- BuilderPackageVersion1
- BuilderPath1
- BuilderScmBinding1
- BuilderScmConnection1
- BuilderScmLabel1
- BuilderScmModule1
- BuilderScmUser1
- BuilderScmView1
- BuilderVersionBuild1
- BuilderVersionMajor1

- BuilderVersionMinor1
- BuilderVersionRelease1
- BuilderVersionTag1
- CruiseControlInterval1
- CruiseControlMailHost1
- CruiseControlReturnAddress1
- [JBossZip](#) 1

1: These types have a *Singleton* constraint. Only one instance may be added as a resource.

### 3.2. Allowed Parent Dependencies

- [CruiseControl](#)
- [Hudson](#)
- Node
- Updater

In addition to allowed parent Node and Updater objects, CruiseControl and Hudson are allowed in order to support Continuous Integration.

## 4. Attributes

### 4.1. Exported Attributes

Name	Property	Description
basedir	deployment-basedir	root directory of the checkout workspace
targetdir	deployment-install-root	target directory containing built artifact(s)

### 4.2. Defaults for Imported Attributes

Name	Default	Description
antArgs		default ANT_ARGS passed to the runBuildScript build command
antOpts		default ANT_OPTS passed to the runBuildScript build command
autoUpdate	false	enabled automatic deployment

		to jboss server within if configured within a Continuous Integratinon loop such as via <a href="#">CruiseControl</a> or <a href="#">Hudson</a>
buildAntHome	<code>\${env.ANT_HOME}</code>	path to the ANT_HOME (installation root of ant)
buildFile	build.xml	default name of the build file
buildPath	/bin:/usr/bin	execution path used when building
buildTarget	all	default target name of the build file
cruiseControlInterval	300	set the continous integration loop build interval
importMax	1	maximum number of packages to import after artifacts are built
importMin	1	minimum number of packages to import after artifacts are built
javaHome	<code>\${env.JAVA_HOME}</code>	path to the JAVA_HOME (installation root of the jdk)
jboss_install_root	<code>\${env.JBOSS_HOME}</code>	default JBOSS_HOME, see <a href="#">BuilderJBossHome</a> to override JBOSS_HOME from environment
packageExtension	war	default package file extension of produced artifact(s)
packageFilebase	.*?	default file base of produced artifact(s)
packageInstallRank	10	during package import, sets the package installation rank upon deployment
packageSeparator	-	default package separator character of produced artifact(s)
packageType	war	default package type of produced artifact(s)

requireBuildstamp	false	determines if a buildstamp is required, defaults to false
scmBinding	cvcs	source code management system to use, defaults to cvs
scmLabel		optional label to apply upon build
scmUser	\${user.name}	username used with the source code management system, defaults to effective user of the builder

## 5. Commands

View the available commands in the [User Reference](#).

## 6. Related Types

The following types are defined for use with JBossAntBuilder.

### 6.1. BuilderJBossHome

#### 6.1.1. Overview

**BuilderJBossHome:** *The value of JBOSS\_HOME to use for the build*

Used to identify the JBOSS\_HOME at build time. See

#### 6.1.2. Design

**Super Type**  
BuilderSetting

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

#### 6.1.3. Attributes

##### 6.1.3.1. Exported Attributes

Name	Property	Description
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*JBossAntBuilder*

jboss_install_root	<b>settingValue</b>	settingValue will override default location established by attribute-default in <a href="#">JBossAntBuilder</a>
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