

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	Concrete. (Objects can be created.)
Instance Names	Unique
Notification	false
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 CruiseControl or Hudson
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 BuilderJBossHome 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	Concrete. (Objects can be created.)
Instance Names	Unique

6.1.3. Attributes

6.1.3.1. Exported Attributes

Name	Property	Description
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JBossAntBuilder

jboss_install_root	settingValue	settingValue will override default location established by attribute-default in JBossAntBuilder
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