

AtgJBossServer

An ATG JBoss application server

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1. Overview

AtgJBossServer: *An ATG JBoss application server*

2. Design

Super Type

[AtgAppServer](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique
Notification	false
Template Directory	<code>\${modules.dir}/AtgJBossServer/templates</code>
Data View	Children, proximity: 1
Logger Name	AtgJBossServer

3. Constraints

3.1. Allowed Child Dependencies

- AtgAppTimezone
- [AtgCopyFromJBossDefaultInstance](#) 1
- [AtgEar](#)
- [AtgJBossEngineLocalhostConfig](#)
- [AtgJBossJvmRoute](#) 1
- [AtgJBossLocalConfig](#)
- [AtgJBossServerConfig](#) 1
- [AtgJBossSetting](#)
- [AtgJBossShutdownTimeout](#) 1
- [AtgJBossStartupTimeout](#) 1
- [AtgJBossTransactionTimeout](#) 1
- [AtgLicenseZip](#)
- AtgLocalConfig
- [AtgRdb](#)
- AtgRmiHost1
- [AtgRmiPort](#) 1
- DefaultAllowMultiplePackageMatches1
- DefaultFailIfPackageNotReplaced1

- DefaultPackageName1
- DefaultPackageType1
- JavaBin1
- JBossMSjdbc
- JBossOjdbc
- JBossZip1

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

3.2. Allowed Parent Dependencies

- AtgAppServerCollection
- Node
- Site

3.3. Allowed Property Values

Property	Allowed Values	Default	Enforced
deployment-basedir	• <code>\${entity.attri</code>	• <code>\${entity.attri</code>	false
deployment-install-root	• <code>\${user.home}/jb</code>	• <code>\${user.home}/jb</code>	false

server/atg

4. Attributes

4.1. Exported Attributes

Name	Property
atgJBossBase	deployment-basedir
atgJBossHome	deployment-install-root

4.2. Defaults for Imported Attributes

Name	Default
atg_data_dir	<code>\${entity.attribute.atgJBossBase}/ATG-Data</code>
atgJavaHome	<code>/usr</code>
atgJBossJavaOpts	<code>-Xms1024m -Xmx1024m</code> <code>-XX:MaxPermSize=256m -XX:PermSize=256m</code> <code>-XX:NewSize=256m -XX:MaxNewSize=256m</code>

	-XX:SurvivorRatio=7 -XX:+DisableExplicitGC -XX:+UseParallelGC -Dsun.rmi.dgc.client.gcInterval=3600000
atgLocalConfig	\${entity.attribute.atgJBossBase}/ATG-Data/localconfig
atgRmiPort	8860
copyFromJBossDefaultInstance	true
defaultAllowMultiplePackageMatches	false
defaultFailIfPackageNotReplaced	true
defaultPackageName	^\$
defaultPackageType	AtgEar
documentRoot	\${entity.attribute.atgJBossBase}/deploy/jbossweb-tomcat55.sar/RC
dynamo_liveconfig	false
engineLocalhostConfig	
jboss_extract_ear	false
jbossPidFile	\${entity.attribute.atgJBossBase}/conf/jboss.pid
jvmRoute	node1
port_config	ports-default
rmihost	
shutdownTimeout	30
startupTimeout	900
timezone	
transactionTimeout	300

5. Commands

Note:

Commandline options displayed in square brackets "[]" are optional. If an option expects arguments, then angle brackets are shown after the option "<>". Any default value is shown within the brackets.

5.1. Configure

Configures the jboss server instance

Usage

Configure

5.1.1. Workflow

1. [Docs-Generate](#)
2. [configureDirectories](#)
3. [configureDataSources](#)

5.2. Docs-Generate

creates directories required for jboss operation

Usage

```
Docs-Generate [-atg_data_dir <>] [-basedir <>]
[-copyFromJBossDefaultInstance <true>] [-dynamo_liveconfig
<>] [-dynamo_modules <>] [-dynamo_server_name <>]
[-engineLocalhostConfig <>] [-install_root <>] [-java_home
<>] [-java_opts <>] [-jboss_server_config <>]
[-jboss_version <>] [-jbossDefaultInstance <default>]
[-jvmroute <>] [-overwrite <false>] [-port_config <>]
[-rmihost <>] [-timezone <>] [-transactionTimeout <>]
```

Options

Option	Description
atg_data_dir	ATG-Data directory
basedir	base directory of the jboss server instance
copyFromJBossDefaultInstance	if true will configure new instance from default
dynamo_liveconfig	Dynamo live configuration
dynamo_modules	dynamo server name java property
dynamo_server_name	dynamo server name java property
engineLocalhostConfig	tomcat engine localhost config
install_root	installation root of the jboss server
java_home	JAVA_HOME

java_opts	<i>JAVA_OPTS</i>
jboss_server_config	<i>jboss server config</i>
jboss_version	<i>version of the jboss server package</i>
jbossDefaultInstance	
jvmroute	<i>tomcat/ajp jvmroute</i>
overwrite	<i>overwrite the configuration if true</i>
port_config	<i>jboss binding port configuration</i>
rmihost	<i>RMI host</i>
timezone	<i>Timezone</i>
transactionTimeout	<i>transaction timeout</i>

5.3. configureDirectories

creates/removes directories within the jboss instance per defined lists

Usage

```
configureDirectories [-jboss_dir_create_list <>]
[-jboss_dir_remove_list <>]
```

Options

Option	Description
jboss_dir_create_list	<i>comma separated list of directory paths</i>
jboss_dir_remove_list	<i>comma separated list of directory paths</i>

5.4. configureDataSources

executes AtgRdb generateDSXml

Usage

```
configureDataSources [-basedir <>] [-jboss_install_root <>]
[-jboss_version <>] [-resourcename <.*>] [-resourcetype
<Atg[^.]*Rdb[^.]*>]
```

Options

Option	Description
basedir	<i>base directory of the jboss server instance</i>

jboss_install_root	<i>installroot of jboss server</i>
jboss_version	<i>version of jboss server</i>
resourcename	<i>object regex to apply configureDataSources execution to</i>
resourcetype	<i>type regex to apply configureDataSources execution to</i>

5.5. killService

kills the jboss server process

Usage

```
killService [-basedir <>] [-install_root <>]
```

Execution	bash
Arguments	if ["\${os.name}" = SunOS]; then PS=/usr/ucb/ps; else PS=ps; fi ; \$PS auxww grep "jboss.*\${opts.install_root}.*" basename \${opts.basedir} grep -v grep awk '{print \$2}' xargs kill -9

Options

Option	Description
basedir	<i>base directory of the jboss instance</i>
install_root	

5.6. packages-code-install

installs all the code package dependencies

Usage

```
packages-code-install [-packagetype  
<[^\.]*(?:(!Configuration))[\^\.]*>]
```

Options

Option	Description
packagetype	<i>regular expression of packages to include</i>

5.7. packages-config-install

installs all the Configuration package dependencies

Usage

```
packages-config-install [-packagetype  
<[^\.]*Configuration[^\.]*>]
```

Options

Option	Description
packagetype	<i>regular expression of packages to include</i>

5.8. Start

Conditionally starts the JBoss Server

Usage

```
Start
```

5.8.1. Workflow

1. [assertServiceIsUp](#)

5.8.2. Error Handler

Command	startServiceWrapper
---------	-------------------------------------

5.9. assertServiceIsDown

Usage

```
assertServiceIsDown [-basedir <>] [-install_root <>]  
[-pidfile <>]
```

Execution	bash
Arguments	ps -fp `cat \${opts.pidfile}` && exit 1 exit 0

Options

Option	Description
basedir	<i>base directory of the running jboss instance</i>
install_root	
pidfile	

5.10. assertServiceIsUp

Usage

```
assertServiceIsUp [-basedir <>] [-install_root <>] [-pidfile <>]
```

Execution	bash
Arguments	ps -fp `cat \${opts.pidfile}` && exit 0 exit 1

Options

Option	Description
basedir	<i>base directory of the running jboss instance</i>
install_root	
pidfile	

5.11. startServiceWrapper

wraps the jboss start procedure and waits for start event

Usage

```
startServiceWrapper
```

5.11.1. Workflow

1. [startService](#)
2. [waitForStartEvent](#)

5.12. startService

asynchronously executes the jboss start command

Usage

```
startService [-basedir <>] [-install_root <>] [-pidfile <>]
```

Options

Option	Description
basedir	
install_root	
pidfile	

5.13. waitForStartEvent

waits for a startup even of an asynchronously started jboss service

Usage

```
waitForStartEvent [-basedir <>] [-maxwait <900>]
```

Options

Option	Description
basedir	<i>base directory of the jboss instance</i>
maxwait	<i>maximum time in seconds to wait for start event</i>

5.14. Stop

Conditionally stops the JBoss Server

Usage

```
Stop
```

5.14.1. Workflow

1. [assertServiceIsDown](#)

5.14.2. Error Handler

Command	stopServiceWrapper
---------	------------------------------------

5.15. stopServiceWrapper

wraps the jboss stop procedure and waits for stop event

Usage

```
stopServiceWrapper
```

5.15.1. Workflow

1. [stopService](#)
2. [waitForStopEvent](#)

5.15.2. Error Handler

Command	killService
---------	-----------------------------

5.16. stopService

executes the jboss stop command

Usage

```
stopService [-basedir <>] [-install_root <>] [-maxwait
<120>] [-pidfile <>] [-port_config <>]
```

Options

Option	Description
basedir	
install_root	
maxwait	<i>timeout in seconds for standard jboss shutdown to complete</i>
pidfile	
port_config	<i>jboss port configuration</i>

5.17. waitForStopEvent

waits for a stop event of a jboss service

Usage

```
waitForStopEvent [-basedir <>] [-maxwait <30>] [-port_config
<>]
```

Options

Option	Description
basedir	<i>base directory of jboss instance</i>
maxwait	<i>maximum time in seconds to wait for stop event</i>
port_config	<i>jboss service bindings port config</i>

5.18. Restart

Executes the JBoss Server Restart procedure

Usage

Restart

5.18.1. Workflow

1. [Stop](#)
2. [Start](#)

6. Related Types

The following types are defined for use with AtgJBossServer.

6.1. AtgJBossSetting

6.1.1. Overview

AtgJBossSetting: *A JBoss Setting*

6.1.2. Design

Super Type Setting

Role	Abstract. (Objects cannot be created.)
Instance Names	Unique

6.1.3. Constraints

6.1.3.1. Allowed Parent Dependencies

- [AtgJBossServer](#)

6.2. AtgJBossPidfile

6.2.1. Overview

AtgJBossPidfile: *jboss transaction timeout*

6.2.2. Design

Super Type [AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.2.3. Attributes

6.2.3.1. Exported Attributes

Name	Property
jbossPidFile	settingValue

6.3. AtgJBossTransactionTimeout

6.3.1. Overview

AtgJBossTransactionTimeout: *jboss transaction timeout*

6.3.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.3.3. Attributes

6.3.3.1. Exported Attributes

Name	Property
transactionTimeout	settingValue

6.4. AtgJBossEngineLocalhostConfig

6.4.1. Overview

AtgJBossEngineLocalhostConfig: *arbitrary tomcat engine/localhost configuration*

6.4.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.4.3. Attributes

6.4.3.1. Exported Attributes

Name	Property
engineLocalhostConfig	settingValue

6.5. AtgJBossStartupTimeout

6.5.1. Overview

AtgJBossStartupTimeout: *time to wait for startup before timing out*

6.5.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.5.3. Attributes

6.5.3.1. Exported Attributes

Name	Property
startupTimeout	settingValue

6.6. AtgJBossShutdownTimeout

6.6.1. Overview

AtgJBossShutdownTimeout: *time to wait for shutdown before timing out*

6.6.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.6.3. Attributes

6.6.3.1. Exported Attributes

Name	Property
shutdownTimeout	settingValue

6.7. AtgJBossJvmRoute

6.7.1. Overview

AtgJBossJvmRoute: *time to wait for startup before timing out*

6.7.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.7.3. Attributes

6.7.3.1. Exported Attributes

Name	Property
jvmRoute	settingValue

6.8. AtgCopyFromJBossDefaultInstance

6.8.1. Overview

AtgCopyFromJBossDefaultInstance: *configure new jboss instance from default if true*

6.8.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.8.3. Attributes

6.8.3.1. Exported Attributes

Name	Property
copyFromJBossDefaultInstance	settingValue

6.9. AtgJBossDirCreateList

6.9.1. Overview

AtgJBossDirCreateList: *ATG Dynamo Live Config Directory Creation List setting*

6.9.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.9.3. Attributes

6.9.3.1. Exported Attributes

Name	Property
jboss_dir_create_list	settingValue

6.10. AtgJBossDirRemoveList

6.10.1. Overview

AtgJBossDirRemoveList: *ATG Dynamo Live Config Directory Removal List setting*

6.10.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.10.3. Attributes

6.10.3.1. Exported Attributes

Name	Property
jboss_dir_remove_list	settingValue

6.11. AtgJBossLiveConfig

6.11.1. Overview

AtgJBossLiveConfig: *ATG Dynamo Live Config setting*

6.11.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.11.3. Attributes

6.11.3.1. Exported Attributes

Name	Property
dynamo_liveconfig	settingValue

6.12. AtgJBossExtractEar

6.12.1. Overview

AtgJBossExtractEar: *JAVA_HOME for JBoss*

6.12.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.12.3. Attributes

6.12.3.1. Exported Attributes

Name	Property
jboss_extract_ear	settingValue

6.13. AtgJBossJavaHome

6.13.1. Overview

AtgJBossJavaHome: *JAVA_HOME* for JBoss

6.13.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.13.3. Attributes

6.13.3.1. Exported Attributes

Name	Property
atgJavaHome	settingValue

6.14. AtgJBossPortConfig

6.14.1. Overview

AtgJBossPortConfig: *JBoss service bindings port configuration*

6.14.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.14.3. Attributes

6.14.3.1. Exported Attributes

Name	Property
port_config	settingValue

6.15. AtgJBBindAddr

6.15.1. Overview

AtgJBBindAddr: *JBoss Bind Address*

6.15.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.15.3. Attributes

6.15.3.1. Exported Attributes

Name	Property
bindAddr	settingValue

6.16. AtgJBInpPort

6.16.1. Overview

AtgJBInpPort: *The name of an ATG JBoss Configuration*

6.16.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.16.3. Attributes

6.16.3.1. Exported Attributes

Name	Property
jnpPort	settingValue

6.17. AtgJBJrmpRmiObjectPort

6.17.1. Overview

AtgJBJrmpRmiObjectPort: *JBoss JRMP RMI Object Port*

6.17.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.17.3. Attributes

6.17.3.1. Exported Attributes

Name	Property
jboss_jrmp_rmi_object_port	settingValue

6.18. AtgJBNamingRmiPort

6.18.1. Overview

AtgJBNamingRmiPort: *JBoss Naming RMI Object Port*

6.18.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.18.3. Attributes

6.18.3.1. Exported Attributes

Name	Property
jboss_naming_rmi_port	settingValue

6.19. AtgJBPooledServerBindPort

6.19.1. Overview

AtgJBPooledServerBindPort: *JBoss Pooled Server Bind Port*

6.19.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.19.3. Attributes

6.19.3.1. Exported Attributes

Name	Property
jboss_pooled_server_bind_port	settingValue

6.20. AtgJBTcAjpPort

6.20.1. Overview

AtgJBTcAjpPort: *Embedded Tomcat/JBoss AJP Port*

6.20.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.20.3. Attributes

6.20.3.1. Exported Attributes

Name	Property
ajpPort	settingValue

6.21. AtgJBTCHttpPort

6.21.1. Overview

AtgJBTCHttpPort: *JBoss HTTP Port*

6.21.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.21.3. Attributes

6.21.3.1. Exported Attributes

Name	Property
httpPort	settingValue

6.22. AtgJBUIL2ServerBindPort

6.22.1. Overview

AtgJBUIL2ServerBindPort: *JBoss UIL2 ServerBind Port*

6.22.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.22.3. Attributes

6.22.3.1. Exported Attributes

Name	Property
jboss_uil2_server_bind_port	settingValue

6.23. AtgJBWSPort

6.23.1. Overview

AtgJBWSPort: *JBoss WebServices Port*

6.23.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.23.3. Attributes

6.23.3.1. Exported Attributes

Name	Property
jboss_ws_port	settingValue

6.24. AtgJBossDocumentRoot

6.24.1. Overview

AtgJBossDocumentRoot: *JBoss Document Root*

6.24.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.24.3. Attributes

6.24.3.1. Exported Attributes

Name	Property
documentRoot	settingValue

6.25. AtgDataDir

6.25.1. Overview

AtgDataDir: *Directory path to ATG-Data dir*

6.25.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.25.3. Attributes

6.25.3.1. Exported Attributes

Name	Property
atg_data_dir	settingValue

6.26. AtgDynamoModules

6.26.1. Overview

AtgDynamoModules: *Directory path to ATG-Data dir*

6.26.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.26.3. Attributes

6.26.3.1. Exported Attributes

Name	Property
atg_dynamo_modules	settingValue

6.27. AtgDynamoServerName

6.27.1. Overview

AtgDynamoServerName:

6.27.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.27.3. Attributes

6.27.3.1. Exported Attributes

Name	Property
dynamo_server_name	settingValue

6.28. AtgJBossJavaOpts

6.28.1. Overview

AtgJBossJavaOpts: *Set of Java options to include in the JBoss run.conf file*

6.28.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.28.3. Attributes

6.28.3.1. Exported Attributes

Name	Property
atgJBossJavaOpts	settingValue

6.29. AtgRmiPort

6.29.1. Overview

AtgRmiPort: *Dynamo server RMI port value used in "localconfig/atg/dynamo/Configuration.properties".*

6.29.2. Design

Super Type

[AtgJBossSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.29.3. Attributes

6.29.3.1. Exported Attributes

Name	Property
atgRmiPort	settingValue