

# JBossServer

## An ATG JBoss application server

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## 1. Overview

**JBossServer:** *An ATG JBoss application server*

## 2. Design

### Super Type Service

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

## 3. Constraints

### 3.1. Allowed Child Dependencies

- [JBossEar](#) 1
- [JBossSetting](#)
- [JBossZip](#) 1
- [Rdb](#) 1

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

### 3.2. Allowed Parent Dependencies

- Node
- Site

### 3.3. Allowed Property Values

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

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## 4. Attributes

### 4.1. Exported Attributes

Name	Property
jboss_basedir	deployment-basedir
jboss_install_root	deployment-install-root

### 4.2. Defaults for Imported Attributes

Name	Default
atg_jvm_maxheap	-Xmx256m
atg_jvm_minheap	-Xms256m
documentRoot	\${entity.attribute.jboss_basedir}/deploy/jbossweb-tomcat55.sar/RC
java_home	\${env.JAVA_HOME}
javaOpts	
jboss_extract_ear	false
port_config	ports-default
timezone	US/Pacific

## 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](#)

### 5.2. Docs-Generate

*creates directories required for jboss operation*

#### Usage

```
Docs-Generate [-atg_data_dir <>] [-basedir <>]
[-install_root <>] [-java_home <>] [-jboss_version <>]
[-jvm_max_perm_size <>] [-jvm_maxheap <>] [-jvm_minheap <>]
[-jvm_perm_size <>] [-overwrite <>false>] [-port_config <>]
```

#### Options

Option	Description
atg_data_dir	<i>ATG-Data directory</i>
basedir	<i>base directory of the jboss server instance</i>
install_root	<i>installation root of the jboss server</i>
java_home	<i>JAVA_HOME</i>
jboss_version	<i>version of the jboss server package</i>
jvm_max_perm_size	<i>jre max_perm_size setting</i>
jvm_maxheap	<i>JAVA_HOME</i>
jvm_minheap	<i>jre minheap setting</i>
jvm_perm_size	<i>jre perm_size setting</i>
overwrite	<i>overwrite the configuration if true</i>
port_config	<i>jboss binding port configuration</i>

### 5.3. killService

*kills the jboss server process*

#### Usage

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

#### Options

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

## 5.4. Start

*Conditionally starts the JBoss Server*

### Usage

Start

### 5.4.1. Workflow

1. [assertServiceIsUp](#)

### 5.4.2. Error Handler

Command	<a href="#">startServiceWrapper</a>
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## 5.5. assertServiceIsDown

*Check whether JBoss is down*

### Usage

```
assertServiceIsDown [-basedir <>] [-port_config <>]
```

### Options

Option	Description
basedir	<i>base directory of the running jboss instance</i>
port_config	<i>jboss binding port configuration</i>

## 5.6. assertServiceIsUp

*Check whether JBoss is up*

### Usage

```
assertServiceIsUp [-basedir <>] [-port_config <>]
```

### Options

Option	Description
basedir	<i>base directory of the running jboss instance</i>
port_config	<i>jboss binding port configuration</i>

## 5.7. startServiceWrapper

*wraps the jboss start procedure and waits for start event*

### Usage

```
startServiceWrapper
```

#### 5.7.1. Workflow

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

#### 5.8. startService

*asynchronously executes the jboss start command*

### Usage

```
startService [-atg_data_dir <>] [-atg_jvm_maxheap <>]
[-atg_jvm_minheap <>] [-basedir <>] [-install_root <>]
[-java_home <>]
```

### Options

Option	Description
atg_data_dir	<i>jboss atg data directory path</i>
atg_jvm_maxheap	<i>max heap jvm arg</i>
atg_jvm_minheap	<i>min heap jvm arg</i>
basedir	
install_root	
java_home	<i>JAVA_HOME</i>

#### 5.9. 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>

## 5.10. Stop

*Conditionally stops the JBoss Server*

### Usage

Stop

### 5.10.1. Workflow

1. [assertServiceIsDown](#)

### 5.10.2. Error Handler

Command	<a href="#">stopServiceWrapper</a>
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## 5.11. stopServiceWrapper

*wraps the jboss stop procedure and waits for stop event*

### Usage

stopServiceWrapper

### 5.11.1. Workflow

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

### 5.11.2. Error Handler

Command	<a href="#">killService</a>
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## 5.12. stopService

*executes the jboss stop command*

### Usage

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

### Options

Option	Description
basedir	
install_root	

maxwait	<i>timeout in seconds for standard jboss shutdown to complete</i>
port_config	<i>jboss port configuration</i>

### 5.13. waitforStopEvent

*waits for a stop event of a jboss service*

#### Usage

```
waitforStopEvent [-basedir <>] [-maxwait <60>] [-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>

### 5.14. Restart

*Executes the JBoss Server Restart procedure*

#### Usage

```
Restart
```

#### 5.14.1. Workflow

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

### 5.15. Deploy

*Executes the JBoss Server Deploy procedure*

#### Usage

```
Deploy
```

#### 5.15.1. Workflow

1. [Stop](#)
2. Packages-Install
3. [Configure](#)

#### 4. [Start](#)

## 6. Related Types

The following types are defined for use with JBossServer.

### 6.1. JBossSetting

#### 6.1.1. Overview

**JBossSetting:** *A JBoss Setting*

#### 6.1.2. Design

**Super Type**  
Setting

Role	<b>Abstract.</b> (Objects cannot be created.)
Instance Names	<b>Unique</b>

#### 6.1.3. Constraints

##### 6.1.3.1. Allowed Parent Dependencies

- [JBossServer](#)

### 6.2. JBossExtractEar

#### 6.2.1. Overview

**JBossExtractEar:** *JAVA\_HOME for JBoss*

#### 6.2.2. Design

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

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

#### 6.2.3. Attributes

**6.2.3.1. Exported Attributes**

Name	Property
jboss_extract_ear	settingValue

**6.3. JBossJavaHome****6.3.1. Overview**

**JBossJavaHome:** *JAVA\_HOME* for JBoss

**6.3.2. Design****Super Type**

[JBossSetting](#)

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

**6.3.3. Attributes****6.3.3.1. Exported Attributes**

Name	Property
java_home	settingValue

**6.4. JBossJavaOpts****6.4.1. Overview**

**JBossJavaOpts:** *JAVA\_OPTS* for JBoss

**6.4.2. Design****Super Type**

[JBossSetting](#)

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

## 6.4.3. Attributes

### 6.4.3.1. Exported Attributes

Name	Property
javaOpts	settingValue

## 6.5. JBossPortConfig

### 6.5.1. Overview

**JBossPortConfig:** *JBoss service bindings port configuration*

### 6.5.2. Design

#### Super Type

[JBossSetting](#)

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

### 6.5.3. Attributes

#### 6.5.3.1. Exported Attributes

Name	Property
port_config	settingValue

## 6.6. JBindAddr

### 6.6.1. Overview

**JBindAddr:** *JBoss Bind Address*

### 6.6.2. Design

#### Super Type

[JBossSetting](#)

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

## 6.6.3. Attributes

### 6.6.3.1. Exported Attributes

Name	Property
bindAddr	settingValue

## 6.7. JBConfiguration

### 6.7.1. Overview

**JBConfiguration:** *The name of an ATG JBoss Configuration*

### 6.7.2. Design

#### Super Type

[JBossSetting](#)

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

### 6.7.3. Attributes

#### 6.7.3.1. Exported Attributes

Name	Property
jboss_configuration	settingValue

## 6.8. JBJnpPort

### 6.8.1. Overview

**JBJnpPort:** *The name of an ATG JBoss Configuration*

### 6.8.2. Design

#### Super Type

[JBossSetting](#)

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

## 6.8.3. Attributes

### 6.8.3.1. Exported Attributes

Name	Property
jnpPort	settingValue

## 6.9. JBJrmpRmiObjectPort

### 6.9.1. Overview

**JBJrmpRmiObjectPort:** *JBoss JRMP RMI Object Port*

### 6.9.2. Design

#### Super Type

[JBossSetting](#)

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

### 6.9.3. Attributes

#### 6.9.3.1. Exported Attributes

Name	Property
jboss_jrmp_rmi_object_port	settingValue

## 6.10. JBNamingRmiPort

### 6.10.1. Overview

**JBNamingRmiPort:** *JBoss Naming RMI Object Port*

### 6.10.2. Design

#### Super Type

[JBossSetting](#)

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

### 6.10.3. Attributes

#### 6.10.3.1. Exported Attributes

Name	Property
jboss_naming_rmi_port	settingValue

### 6.11. JBPooledServerBindPort

#### 6.11.1. Overview

**JBPooledServerBindPort:** *JBoss Pooled Server Bind Port*

#### 6.11.2. Design

##### Super Type

[JBossSetting](#)

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

#### 6.11.3. Attributes

##### 6.11.3.1. Exported Attributes

Name	Property
jboss_pooled_server_bind_port	settingValue

### 6.12. JBTcAjpPort

#### 6.12.1. Overview

**JBTcAjpPort:** *Embedded Tomcat/JBoss AJP Port*

#### 6.12.2. Design

##### Super Type

[JBossSetting](#)

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

### 6.12.3. Attributes

#### 6.12.3.1. Exported Attributes

Name	Property
ajpPort	settingValue

### 6.13. JBTcHttpPort

#### 6.13.1. Overview

**JBTcHttpPort:** *JBoss HTTP Port*

#### 6.13.2. Design

##### Super Type

[JBossSetting](#)

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

#### 6.13.3. Attributes

##### 6.13.3.1. Exported Attributes

Name	Property
httpPort	settingValue

### 6.14. JBUIL2ServerBindPort

#### 6.14.1. Overview

**JBUIL2ServerBindPort:** *JBoss UIL2 ServerBind Port*

#### 6.14.2. Design

##### Super Type

[JBossSetting](#)

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

### 6.14.3. Attributes

#### 6.14.3.1. Exported Attributes

Name	Property
jboss_uil2_server_bind_port	settingValue

### 6.15. JBWSPort

#### 6.15.1. Overview

**JBWSPort:** *JBoss WebServices Port*

#### 6.15.2. Design

##### Super Type

[JBossSetting](#)

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

#### 6.15.3. Attributes

##### 6.15.3.1. Exported Attributes

Name	Property
jboss_ws_port	settingValue

### 6.16. JBossDocumentRoot

#### 6.16.1. Overview

**JBossDocumentRoot:** *JBoss Document Root*

#### 6.16.2. Design

##### Super Type

[JBossSetting](#)

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

### 6.16.3. Attributes

#### 6.16.3.1. Exported Attributes

Name	Property
documentRoot	settingValue

### 6.17. JVMMinHeap

#### 6.17.1. Overview

**JVMMinHeap:** *JVM minimum heap size*

#### 6.17.2. Design

##### Super Type

[JBossSetting](#)

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

#### 6.17.3. Attributes

##### 6.17.3.1. Exported Attributes

Name	Property
atg_jvm_minheap	settingValue

### 6.18. JVMMaxHeap

#### 6.18.1. Overview

**JVMMaxHeap:** *JVM maximum heap size*

#### 6.18.2. Design

##### Super Type

[JBossSetting](#)

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

### 6.18.3. Attributes

#### 6.18.3.1. Exported Attributes

Name	Property
atg_jvm_maxheap	settingValue

### 6.19. JVMPermSize

#### 6.19.1. Overview

**JVMPermSize:** *JVM Perm Size memory setting*

#### 6.19.2. Design

##### Super Type

[JBossSetting](#)

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

#### 6.19.3. Attributes

##### 6.19.3.1. Exported Attributes

Name	Property
jvm_perm_size	settingValue

### 6.20. JVMMaxPermSize

#### 6.20.1. Overview

**JVMMaxPermSize:** *JVM Max Perm Size memory setting*

#### 6.20.2. Design

##### Super Type

[JBossSetting](#)

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

### 6.20.3. Attributes

#### 6.20.3.1. Exported Attributes

Name	Property
jvm_max_perm_size	settingValue

### 6.21. AppTimezone

#### 6.21.1. Overview

**AppTimezone:** *A appserver timezone*

#### 6.21.2. Design

##### Super Type

[JBossSetting](#)

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

#### 6.21.3. Attributes

##### 6.21.3.1. Exported Attributes

Name	Property
timezone	settingValue