

# JBossServer

## A JBoss application server

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## 1. Overview

**JBossServer:** *A JBoss application server*

This type manages an instance of a JBoss Server.

A [JavaZip](#) object should be added as a child dependency to automate deployment of the jboss package distribution.

An example of managing JBoss server instances is here: [JBoss Library](#).

See: [JBoss Community](#).

## 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](#)

Support datasource generation within the jboss server instance's deploy directory.

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

Restrict JBossServer resources to JBossZip platform package, JBossEar packages, arbitrary jboss settings, and Rdb objects.

### 3.2. Allowed Parent Dependencies

- [JavaServiceWrapper](#)

In support of windows java service capability.

- Node
- Site

Restrict JBossServer to Node, Site, and optionally a JavaServiceWrapper. for java/windows service support.

### 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}/jboss</code>	• <code>\${user.home}/jboss</code>	false

## 4. Attributes

### 4.1. Exported Attributes

Name	Property	Description
jboss_basedir	deployment-basedir	associate the jboss_basedir attribute property with the standard deployment-basedir property.
jboss_install_root	deployment-install-root	associate the jboss_install_root attribute property with the standard deployment-install-root property.

### 4.2. Defaults for Imported Attributes

Name	Default	Description
documentRoot	<code>\${entity.attribute.jboss_basedir}/c</code>	identify the DocumentRoot based on the integrated jboss tomcat webapp for potential deployable static content.

java_home	<code>\${env.JAVA_HOME}</code>	set a reasonable JAVA_HOME by using the user's environment.
javaOpts		optional JAVA_OPTS to be passed to the java runtime at startup
jboss_extract_ear	false	set ear extraction behavior to false within the jboss instance deploy directory.
jbossDefaultInstance	default	set the jboss reference instance to the "default" instance.
jvm_maxheap	-Xmx512m	use a small maximum heap setting in order not to break modest virtual machines, etc
jvm_minheap	-Xms256m	use a small minimum heap setting.
port_config	ports-default	use the default port configuration in the jboss service bindings configuration.
timezone	US/Pacific	set the jboss timezone to US Pacific time

## 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. Docs-Generate

*creates directories required for jboss operation*

Auto-provisions the jboss instance using the reference instance identified by `${opts.jbossDefaultInstance}`.

### Note:

NOTE: exception is if `${opts.basedir}` and `${opts.jbossDefaultInstance}` are the same directory, where auto provisioning does not occur.

Also generates run.conf which contains java runtime configuration.

### Usage

```
Docs-Generate [-basedir <>] [-install_root <>] [-java_home
<>] [-javaopts <>] [-jboss_version <>]
[-jbossDefaultInstance <default>] [-jvm_max_perm_size <>]
[-jvm_maxheap <>] [-jvm_minheap <>] [-jvm_perm_size <>]
[-overwrite <>false>] [-port_config <>] [-timezone <>]
```

### Options

Option	Description
basedir	<i>base directory of the jboss instance</i> Defaults to the value of the jboss_basedir attribute setting .
install_root	<i>the JBoss Installation root, i.e. \$JBOSS_HOME</i> Defaults to the value of the jboss_install_root attribute setting.
java_home	<i>JAVA_HOME</i> JBoss JAVA_HOME which defaults to the java_home attribute setting value
javaopts	<i>the java options</i> Arbitrary JAVA_OPTS passed to the jboss runtime, defaults to the javaOpts attribute setting value.
jboss_version	<i>version of the jboss server package</i> Defaults to the value of the jboss_version attribute setting and is used to validate versioned templates embedded within this module. See <a href="#">JBossZip</a> regarding the jboss_version attribute.
jbossDefaultInstance	<i>specifies the jboss reference instance to copy from, if not specified the default server is assumed within the JBOSS_HOME/server directory</i> jboss default reference instance defaults to the jbossDefaultInstance attribute setting value
jvm_max_perm_size	<i>jre max_perm_size setting</i> JBoss java max perm size setting, defaults to the jvm_max_perm_size attribute setting value

jvm_maxheap	<i>JAVA_HOME</i> JBoss java maximum heap setting, defaults to the jvm_maxheap attribute setting value
jvm_minheap	<i>jre minheap setting</i> JBoss java minimum heap setting, defaults to the jvm_minheap attribute setting value
jvm_perm_size	<i>jre perm_size setting</i> JBoss java perm size setting, defaults to the jvm_perm_size attribute setting value
overwrite	<i>overwrite the configuration if true</i> Typically the first time jboss instance is provisioned, one time copying is executed prior to template expansion. The one time copying can be overridden since the default for this option is set to false. If true, it would be the equivalent of re-provisioning the jboss server instance.
port_config	<i>jboss binding port configuration</i> identifies the port configuration from the port_config attribute setting value used in the JBoss Service Bindings configuration.
timezone	<i>the time zone</i> JBoss timezone passed in at java/jboss startup, defaults to the timezone attribute setting value.

## 5.2. Docs-Register

*Experimental: registers configuration documents required for jboss operation*

Experimental command still requires documentation.

### Usage

```
Docs-Register [-basedir <>] [-install_root <>]
[-jboss_version <>]
```

### Options

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

install_root	
jboss_version	<i>version of the jboss server package</i>

### 5.3. Docs-Baseline

*Experimental: Creates a baseline for the configuration documents required for jboss operation*

Experimental command still requires documentation.

#### Usage

Docs-Baseline [-basedir <>] [-install\_root <>] [-overwrite]

#### Options

Option	Description
basedir	<i>base directory of the jboss instance</i>
install_root	<i>the jboss installation root directory</i>
overwrite	<i>Overwrite existing baseline copies</i>

### 5.4. Docs-Verify

*Experimental: Verifies the configuration documents required for jboss operation*

Experimental command still requires documentation.

#### Usage

Docs-Verify [-basedir <>] [-install\_root <>]

#### Options

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

### 5.5. Configure

*Run the configuration cycle for the deployment.*

override of standard Configure Workflow to execute Docs-Generate, which bootstraps the jboss configuration instance and Docs-Baseline, which executes the experimental Docs-Baseline command.

**Usage**

Configure

**5.5.1. Workflow**

1. [Docs-Generate](#)
2. [Docs-Baseline](#)

**5.6. killService***kills the jboss server process*

Last resort command to kill the specific jboss server instance java process. Implicitly executed via a stopServiceWrapper exception, or can be executed on demand.

**Usage**

```
killService [-basedir <>] [-install_root <>] [-killwait <2>]
```

**Options**

Option	Description
basedir	<i>base directory of the jboss instance</i>
install_root	<i>installation root of the jboss server</i>
killwait	<i>number of seconds to wait to check if PIDs still exist after kill</i>

**5.7. 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>

**5.8. 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>

## 5.9. Start

*Conditionally starts the JBoss Server*

standard Start command, which idempotently starts the jboss service

### Usage

Start

### 5.9.1. Workflow

1. [assertServiceIsUp](#)

### 5.9.2. Error Handler

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

*Check whether JBoss is down*

inquires if the jboss service is down and will fail if it is up

### Usage

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

### Options

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

## 5.11. assertServiceIsUp

*Check whether JBoss is up*

inquires if the jboss service is up and will fail if it is down

**Usage**

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

**Options**

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

**5.12. startServiceWrapper**

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

Workflow to asynchronously execute the jboss startService command and subsequently executes a synchronous waitForStartEvent in order to verify successful startup of the service.

**Usage**

```
startServiceWrapper
```

**5.12.1. Workflow**

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

**5.13. startService**

*asynchronously executes the jboss start command*

standard startService command to asynchronously start the jboss server instance.

**Usage**

```
startService [-basedir <>] [-install_root <>] [-java_home
<>] [-spawn <true>]
```

**Options**

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

java_home	JAVA_HOME
spawn	Whether or not to run in background

## 5.14. waitForStartEvent

*waits for a startup even of an asynchronously started jboss service*

polls the jboss service and returns successfully upon successful startup. Failure will occur from a configurable timeout, defaults to fifteen minutes in the case for lengthy app startups.

### Usage

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

### Options

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

## 5.15. Stop

*Conditionally stops the JBoss Server*

standard Stop command to idempotently stop the jboss server instance.

### Usage

```
Stop
```

### 5.15.1. Workflow

1. [assertServiceIsDown](#)

### 5.15.2. Error Handler

Command	<a href="#">stopServiceWrapper</a>
---------	------------------------------------

## 5.16. stopServiceWrapper

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

workflow to execute the asynchronously execute the standard stopService command and subsequently executes a synchronous waitForStopEvent. Upon exception, the killService comand is executed.

**Usage**

stopServiceWrapper

**5.16.1. Workflow**

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

**5.16.2. Error Handler**

Command	<a href="#">killService</a>
---------	-----------------------------

**5.17. stopService***executes the jboss stop command*

executes the standard stopService command to stop the jboss server instance.

**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>

**5.18. waitForStopEvent***waits for a stop event of a jboss service*

executes synchronous waitForStopEvent command to poll for a successful jboss shutdown.

**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> default timeout of 60 seconds will trigger failure of this command.
port_config	<i>jboss service bindings port config</i> look up port configuration in service bindings to issue stop request.

## 6. Related Types

The following types are defined for use with JBossServer.

### 6.1. JBossSetting

#### 6.1.1. Overview

**JBossSetting:** *A JBoss Setting*

##### 6.1.1.1. Intent

Supertype to encapsulate related subtypes to support JBossServer service.

##### 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](#)

Restrict setting objects of this type to be referred to by a JBossServer object.

### 6.2. JBossExtractEar

### 6.2.1. Overview

**JBossExtractEar:** *modify ear deployment behavior for the JBossServer to explode or not explode the ear within the jboss deploy directory*

### 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	Description
jboss_extract_ear	settingValue	"true" or "false" to respectively explode or not explode the ear

## 6.3. JBossJavaHome

### 6.3.1. Overview

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

Identifies the location of the java (jdk or jre) installation root typically referred to as JAVA\_HOME.

### 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	Description
java_home	settingValue	attribute setting containing the fully qualified path to the java installation root (i.e. JAVA_HOME).

## 6.4. JBossJavaOpts

### 6.4.1. Overview

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

To manage the allowed options (standard and non standard) that need to be passed to the java runtime when starting the jboss server.

### 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	Description
javaOpts	settingValue	attribute setting containing the allowed java runtime options when starting jboss.

## 6.5. JBossPortConfig

### 6.5.1. Overview

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

#### 6.5.1.1. Intent

Since JBoss has many different configuration files that refer to the various ports required to

run a jboss server instance, ControlTier automates the JBossServer port configuration via the [Service Binding Manager](#). This approach allows centralized management of the ports (which there are many of them) that conform to a standard port numbering convention. This unique set of ports is then indexed by a configuration name (i.e ports-default, ports-01, etc).

### 6.5.1.2. Discussion

For example, the "ports-default" configuration setting refers to the standard JBoss HTTP Listen port, 8080, HTTPS Listen Port, 8443, and the AJP Port, 8009, etc.

Another example, the "ports-01" configuration setting refers to JBoss HTTP Listen port, 8180, HTTPS Listen Port, 8543, and the AJP Port, 8109, etc.

Therefore, by accepting the conventions that JBoss encourages via the use of their Service Binding Manager, managing sets of ports through a single setting is achieved.

### 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	Description
port_config	settingValue	attribute containing the desired port configuration within the Service Binding Manager.

## 6.6. JBindAddr

### 6.6.1. Overview

**JBindAddr:** *JBoss Bind Address*

Deprecated, see #JBossPortConfig

### 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 a 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 a JBoss Configuration*

Deprecated, see #JBossPortConfig

## 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*

Deprecated, see #JBossPortConfig

### 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*

Deprecated, see #JBossPortConfig

## 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*

Deprecated, see #JBossPortConfig

### 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*

Deprecated, see #JBossPortConfig

### 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*

Deprecated, see #JBossPortConfig

### 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*

Deprecated, see #JBossPortConfig

**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*

Deprecated, see #JBossPortConfig

**6.15.2. Design****Super Type**

[JBossSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
------	--

Instance Names	<b>Unique</b>
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### 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*

If set, the java runtime minimum heap, i.e. -Xms256m, will be applied at Configure time

### 6.17.2. Design

#### Super Type

[JBossSetting](#)

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

**6.17.3. Attributes**

attribute containing the java runtime minimum heap parameter.

**6.17.3.1. Exported Attributes**

Name	Property
jvm_minheap	settingValue

**6.18. JVMMaxHeap****6.18.1. Overview**

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

If set, the java runtime maximum heap, i.e. -Xmx512m, will be applied at Configure time

**6.18.2. Design****Super Type**

[JBossSetting](#)

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

**6.18.3. Attributes**

attribute containing the java runtime maximum heap parameter.

**6.18.3.1. Exported Attributes**

Name	Property
jvm_maxheap	settingValue

**6.19. JVMPermSize**

### 6.19.1. Overview

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

If set, the java runtime "Perm Size" setting is applied, i.e. -XX:PermSize=256m, at Configure time

### 6.19.2. Design

#### Super Type

[JBossSetting](#)

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

### 6.19.3. Attributes

attribute containing the java runtime permsize parameter

#### 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*

If set, the java runtime "Max Perm Size" setting is applied, i.e. -XX:MaxPermSize=256m, at Configure time

### 6.20.2. Design

#### Super Type

[JBossSetting](#)

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

### 6.20.3. Attributes

attribute containing the java runtime max permsize parameter

### 6.20.3.1. Exported Attributes

Name	Property
jvm_max_perm_size	settingValue

## 6.21. AppTimezone

### 6.21.1. Overview

**AppTimezone:** *A appserver timezone*

if set, applies the `-Duser.timezone=<value>` java runtime property at Configure time.

### 6.21.2. Design

#### Super Type

[JBossSetting](#)

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

### 6.21.3. Attributes

attribute containing the java runtime user.timezone property value

#### 6.21.3.1. Exported Attributes

Name	Property
timezone	settingValue

## 6.22. JBossDefaultInstance

### 6.22.1. Overview

**JBossDefaultInstance:** *configure new jboss instance from a reference instance*

The jboss instance directory, i.e. the JBossServer object's basedir, is configured from scratch based on a reference jboss instance. By default, this reference instance is the "default" instance residing under the `JBOSS_HOME/server` directory. At Deploy time, the Configure

workflow will auto generate this server instance from the reference instance using recursive copy and filtering techniques. This assumes that the JBossServer base directory is not the same as the reference instance, otherwise this will not occur since we cannot copy a directory onto itself and in this case the server instance will be untouched. If the jboss "default" instance is not the desired reference instance, this can be overridden by this setting object. For example, this settingValue can be another instance such as "all" or "minimal".

### 6.22.2. Design

#### Super Type

[JBossSetting](#)

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

### 6.22.3. Attributes

attribute setting identifying the jboss reference instance to copy from when provisioning at Configure time.

#### 6.22.3.1. Exported Attributes

Name	Property
jbossDefaultInstance	settingValue