

TomcatSite

Centralized management for a set of Tomcat based application server instances and contexts.

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1. Overview

TomcatSite: *Centralized management for a set of Tomcat based application server instances and contexts.*

This type facilitates management of a scenario where there are multiple [TomcatContext](#) objects and a [TomcatServer](#) object. The TomcatServer and TomcatContext objects will be deployed as child dependencies of a TomcatSite object. All three types will be deployed locally to the node where the TomcatServer will run. (This is contrary to the usual practice of deploying Site objects to the server where they can be used in Jobcenter. In this sense, it may help to think of TomcatSite as the replacement for a Service type; it is deployed locally and then can be added to normal Sites deployed on the server node.)

The standard service commands such as Start, Stop, or Restart can be run against objects of this type; the commands will be dispatched to its dependencies.

2. Design

Super Type Site

Role	Concrete. (Objects can be created.)
Instance Names	Unique
Notification	false
Template Directory	
Data View	Children, proximity: 1
Logger Name	TomcatSite

3. Constraints

3.1. Allowed Child Dependencies

- DefaultAllowMultiplePackageMatches1
- DefaultDeploymentType1
- DefaultFailIfPackageNotReplaced1
- DefaultPackageName1
- DefaultPackageType1
- DispatchBaseType1
- DispatchChangeDependencies1

- DispatchExecutionStrategy1
- DispatchOptions1
- DispatchResourceName1
- DispatchResourceType1
- DispatchSortOrder1
- DispatchThreadCount1
- [TomcatContext](#)
- [TomcatServer](#)

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

3.2. Allowed Parent Dependencies

- Node
- Site
- Updater

4. Attributes

Most of these attributes are standard and can be set via the usual correspondingly-named settings. For most use cases, the defaults are sufficient.

4.1. Exported Attributes

Name	Property
basedir	deployment-basedir
install-root	deployment-install-root

4.2. Defaults for Imported Attributes

Name	Default	Description
defaultAllowMultiplePack	false	
defaultDeploymentType	Deployment	
defaultFailIfPackageNotR	true	
defaultPackageName	^\$	
defaultPackageType	Package	
dispatchBaseType	(?:deployment service mediator)	

dispatchChangeDependencies	false	
dispatchExecutionStrategy	localdispatch	This type only dispatches locally since it is meant to be deployed alongside the service types.
dispatchOptions		
dispatchResourceName	.*	
dispatchResourceType	[^\.]*	
dispatchSortOrder	ascending	
threadCount	1	This value to avoid race conditions; if you're sure of what you're doing, you can change this in certain situations.

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. Update

Refresh dependencies and then deploy the site.

Usage

```
Update -buildstamp <> [-resourcename <.*>] [-resourcetype <[^\.]*>]
```

5.1.1. Workflow

1. Change-Dependencies
2. Deploy

Options

Use these options to limit the scope of this command to certain resources.

Option	Description
buildstamp	<i>buildstamp</i>

resourcename	<i>resource name pattern</i>
resourcetype	<i>resource type name</i>

5.2. Packages-Install

Dispatch package installation to the site's resources.

Usage

```
Packages-Install [-command <Packages-Install>]  
[-resourcename <.*>] [-resourcetype <[^\.]*>]
```

5.2.1. Workflow

1. dispatchCmd

Options

Use these options to limit the scope of this command to certain resources.

Option	Description
command	<i>command to dispatch</i>
resourcename	<i>resource name pattern</i>
resourcetype	<i>resource type name</i>