

Deployit Generic Model Plugin Manual

Version 3.6.2

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Preface

This document describes the functionality provided by the Generic Model plugin.

See the **Deployit Reference Manual** for background information on Deployit and deployment concepts.

Overview

Deployit supports a number of middleware platforms. Sometimes, though, it is necessary to extend Deployit with new middleware support. The Generic Model plugin provides a way to do this, without having to write Java code. Instead, using Deployit's flexible type system and the base CIs from the Generic Model plugin, new CIs can be defined by writing XML and providing scripts for functionality.

Several of Deployit's standard plugins are also built on top of the Generic Model plugin.

Features

- Define custom containers
 - Stop, start, restart capabilities
- Define and copy custom artifacts to a custom container
- Define, copy and execute custom scripts and folders on a custom container
- Define resources to be processed by a template and copied to a custom container
- Define and execute control tasks on containers and deployments
- Flexible templating engine

Requirements

The plugin requires:

- **Deployit:** version 3.5+

Plugin Concepts

The Generic Model plugin provides several CIs that can be used as base classes for creating Deployit extensions. There are base CIs for each of Deployit's CI types (deployables, deployments and containers). A typical usage scenario is to create custom, synthetic CIs (based on one of the provided CIs) and using it to invoke the required behavior (scripts) in a deployment plan.

Container

A [Container](#) is a topology CI and models middleware in your infrastructure. This would typically be used to model middleware for Deployit does not have out of the box support or that is custom to your environment. The other CIs in the plugin can be deployed to (subclasses of) the container. The behavior of the container in a deployment is configured by specifying scripts to be executed when it is started, stopped or restarted. Deployit will invoke these scripts as needed.

Copied Artifact

A [CopiedArtifact](#) is an artifact as copied over to a [Container](#). It manages the copying of any generic artifact ([File](#), [Folder](#), [Archive](#), [Resource](#)) in the deployment package to the container. It is possible to indicate that this copied artifact requires a container restart.

Executed Script

An [ExecutedScript](#) encapsulates a script that is executed on a generic container. The script is processed by the templating engine (see below) before being copied to the target container. The behavior of the script is configured by specifying scripts to be executed when it is deployed, upgraded or undeployed.

Executed Folder

An [ExecutedFolder](#) encapsulates a folder containing installation and rollback scripts that are executed on a generic container. Installation scripts are executed when the folder is deployed or updated, rollback scripts are executed when it is undeployed. Execution of the scripts happens in order. Scripts are processed by the templating engine (see below) before being copied to the target container.

Processed Template

A [ProcessedTemplate](#) is a [Freemarker](#) template that is processed by the templating engine (see below), then copied to a [Container](#).

Templating

When defining and using CIs with the Generic Model plugin, the need arises to use variables in certain CI properties and scripts. The most obvious use is to include properties from the deployment itself, such as the names or locations of files in the deployment package. Deployit uses the [Freemarker](#) templating engine for this.

When performing a deployment using the Generic Model plugin, all CIs and scripts are processed in Freemarker. This means that placeholders can be used in CI properties and scripts to make them more flexible. Freemarker resolves placeholders using a *context*, a set of objects defining the template's environment. This context depends on the type of CI being deployed.

For deployed CIs, the context *deployed* refers to the current CI instance. For example:

```
<type type="tc.DeployedDataSource" extends="generic.ProcessedTemplate" deployable-type="tc.DataSource"
  container-type="tc.Server">
  ...
  <property name="targetFile" default="${deployed.name}-ds.xml" hidden="true"/>
  ...
</type>
```

For container CIs, the context *container* refers to the current container instance. For example:

```
<type type="tc.Server" extends="generic.Container">
  <property name="home" default="/tmp/tomcat"/>
  <property name="targetDirectory" default="${container.home}/webapps" hidden="true"/>
</type>
```

A special case is when referring to an artifact in the placeholder. For example, when deploying a CI representing a WAR file, the following placeholder can be used to refer to that file (assuming there is a *file* property on the deployable):

```
${deployed.deployable.file}
```

In this case, Deployit will copy the referred artifact to the target container so that the file is available to the executing script. A script containing a command like the following would therefore copy the file represented by the deployable to its installation path on the remote machine:

```
cp ${deployed.deployable.file} /install/path
```

Control Tasks

CIIs based on the [Container](#), [CopiedArtifact](#), [ExecutedScript](#) or [ProcessedTemplate](#) can also define control tasks to manage them. Control tasks are implemented using scripts that will be loaded and executed on the target middleware when executed.

This is an example of defining a control task:

```
<type type="tc.DeployedDataSource" extends="generic.ProcessedTemplate" deployable-type="tc.DataSource"
  container-type="tc.Server">
  <generate-deployable type="tc.DataSource" extends="generic.Resource"/>
  ...
  <property name="pingScript" default="tc/ping.sh" hidden="true"/>
  <method name="ping" description="Test whether the datasource is available"/>
</type>
```

The *method* XML fragment defines that control task *ping* is available on the CI. The *pingScript* property indicates the script that must be executed when it is invoked. The script will be resolved from the classpath. The same mechanism applies to a container.

Using the deployables and deployed

Deployable vs. Container Table

The following table describes which deployable / container combinations are possible. Note that the CIIs can only be targeted to containers derived from [generic container](#).

Deployable	Containers	Generated deployed
generic.File generic.Archive	generic.Container	generic.CopiedArtifact
any deployable	generic.Container	generic.ExecutedScript
any folder deployable	generic.Container	generic.ExecutedFolder
any deployable	generic.Container	generic.ProcessedTemplate

Deployed Actions Table

The following table describes the effect a deployed has on its container.

Deployed	Create	Destroy	Modify
generic.CopiedArtifact	<ul style="list-style-type: none"> Create target path on host, if needed Copy file to target path on host 	<ul style="list-style-type: none"> Delete file from host 	<ul style="list-style-type: none"> Delete old file from host Copy modified file to target path on host
generic.ExecutedScript	<ul style="list-style-type: none"> Run script through template engine Copy create script to container Execute script 	<ul style="list-style-type: none"> Run script through template engine Copy destroy script to container Execute script 	<ul style="list-style-type: none"> Run script through template engine Copy modify script to container Execute script
generic.ExecutedFolder	<p>For each installation script in the folder (ordered alphabetically by name, ascending):</p> <ul style="list-style-type: none"> Run script through template engine Copy create script to container Execute script 	<p>For each rollback script in the folder (ordered alphabetically by name, descending):</p> <ul style="list-style-type: none"> Run script through template engine Copy destroy script to container Execute script 	<p>For each installation script in the folder that was not part of the deployment being upgraded (ordered alphabetically by name, ascending):</p> <ul style="list-style-type: none"> Run script through template engine Copy modify script to container Execute script
generic.ProcessedTemplate	<ul style="list-style-type: none"> Run script through template engine Copy template to container 	<ul style="list-style-type: none"> Run script through template engine Delete template from container 	<ul style="list-style-type: none"> Run script through template engine Delete template from container Copy new template to container

Sample Usage Scenario - Deploying a new middleware platform

This section describes an example of using the Generic Model plugin to implement support for a simple middleware platform. Deployment to this platform is done by simply copying a WAR archive to the right directory on the container. Resources are created by copying configuration files into the container's configuration directory. The Tomcat application server works in a very similar manner.

By defining a container and several other CIs based on CIs from the Generic Model plugin, it is possible to add support for deploying to this platform to Deployit.

Defining the Container

To use any of the CIs in the Generic Model plugin, they need to be targeted to a [Container](#). This snippet shows how to define a generic container as a synthetic type:

```
<type type="tc.Server" extends="generic.Container">
  <property name="home" default="/tmp/tomcat"/>
</type>

<type type="tc.UnmanagedServer" extends="tc.Server">
  <property name="startScript" default="tc/start.sh" hidden="true"/>
  <property name="stopScript" default="tc/stop.sh" hidden="true"/>
  <property name="restartScript" default="tc/restart.sh" hidden="true"/>
</type>
```

Note that the *tc.UnmanagedServer* CI defines a start, stop and restart script. Deployit Server reads these scripts from the classpath. When targetting a deployment to the *tc.UnmanagedServer*, Deployit will include steps executing the start, stop and restart scripts in appropriate places in the deployment plan.

Defining a Configuration File

The following snippet defines a CI based on the [CopiedArtifact](#). The *tc.DeployedFile* CI can be targeted to the *tc.Server*. The target directory is specified as a hidden property. Note the placeholder syntax used here.

```
<type type="tc.DeployedFile" extends="generic.CopiedArtifact" deployable-type="tc.File">
```

```

    container-type="tc.Server">
    <generate-deployable type="tc.File" extends="generic.File"/>
    <property name="targetDirectory" default="${deployed.container.home}/conf" hidden="true"/>
  </type>

```

Using the above snippet, it is possible to create a package with a *tc.File* deployable and deploy it to an environment containing a *tc.UnmanagedServer*. This will result in a *tc.DeployedFile* deployed.

Defining a WAR

To deploy a WAR file to the *tc.Server*, one possibility is to define a *tc.DeployedWar* CI that extends the [ExecutedScript](#). The *tc.DeployedWar* CI is generated when deploying a *jee.War* to the *tc.Server* CI. This is what the XML looks like:

```

<type type="tc.DeployedWar" extends="generic.ExecutedScript" deployable-type="jee.War"
  container-type="tc.Server">
  <generate-deployable type="tc.War" extends="jee.War"/>
  <property name="createScript" default="tc/install-war" hidden="true"/>
  <property name="modifyScript" default="tc/reinstall-war" hidden="true" required="false"/>
  <property name="destroyScript" default="tc/uninstall-war" hidden="true"/>
</type>

```

When performing an initial deployment, the create script, *tc/install-war* is executed on the target container. Inside the script, a reference to the *file* property is replaced by the actual archive. Note that the script files do not have an extension. Depending on the target platform, the extension *sh* (Unix) or *bat* (Windows) is used.

Defining a Datasource

Configuration files can be deployed by creating a CI based on the [ProcessedTemplate](#). By including a [Resource](#) in the package that is a Freemarker template, a configuration file can be generated during the deployment and copied to the container. This snippet defines such a CI, *tc.DeployedDataSource*:

```

<type type="tc.DeployedDataSource" extends="generic.ProcessedTemplate" deployable-type="tc.DataSource"
  container-type="tc.Server">
  <generate-deployable type="tc.DataSource" extends="generic.Resource"/>

  <property name="jdbcUrl"/>
  <property name="port" kind="integer"/>
  <property name="targetDirectory" default="${deployed.container.home}/webapps" hidden="true"/>
  <property name="targetFile" default="${deployed.name}-ds.xml" hidden="true"/>
  <property name="template" default="tc/datasource.ftl" hidden="true"/>
</type>

```

The *template* property specifies the Freemarker template file that Deployit Server reads from the classpath. The *targetDirectory* controls where the template is copied to. Inside the template, properties like *jdbcUrl* on the *datasource* can be used to produce a proper configuration file.

CI Reference

Configuration Item Overview

Virtual Deployable Configuration Items

CI	Description
generic.Archive	A generic, compressed binary artifact
generic.File	A generic binary artifact
generic.Folder	A generic folder artifact
generic.Resource	A generic resource specification

Virtual Deployed Configuration Items

CI	Description
generic.AbstractDeployed	Abstract deployed that can target any deployable to a generic container
generic.AbstractDeployedArtifact	Abstract deployed that can target any artifact to a generic container
generic.CopiedArtifact	An artifact deployed on a generic container
generic.ExecutedFolder	Scripts in the folder are executed against a Container based on a naming convention
generic.ExecutedScript	A script executed on a generic container
generic.ExecutedScriptWithDerivedArtifact	A script executed on a generic container whose deployable artifact supports placeholder replacement
generic.ProcessedTemplate	A template deployed to a generic container

Virtual Topology Configuration Items

CI	Description
generic.Container	A container to which generic CIs can be deployed
generic.GenericContainer	
generic.NestedContainer	A container that is nested with another container


Configuration Item Details

[generic.AbstractDeployed](#)

Hierarchy udm.BaseDeployed >> udm.BaseConfigurationItem

Interfaces udm.Deployed, udm.ConfigurationItem

Abstract deployed that can target any deployable to a generic container

Public Properties	
 container : CI<udm.Container>	
The container on which this deployed runs.	
deployable : CI<udm.Deployable>	
The deployable that this deployed is derived from.	

Hidden Properties

createOrder : **INTEGER** = *50*

The order of the step in the step list for the create operation.

createVerb : **STRING** = *Create*

Create Verb

destroyOrder : **INTEGER** = *40*

The order of the step in the step list for the destroy operation.

destroyVerb : **STRING** = *Destroy*

Destroy Verb

modifyOrder : **INTEGER** = *50*

The order of the step in the step list for the modify operation.

modifyVerb : **STRING** = *Modify*

Modify Verb

noopOrder : **INTEGER** = *50*

The order of the step in the step list for the noop operation.

noopVerb : **STRING** = *Modify*

Noop Verb

restartRequired : **BOOLEAN** = *false*

The generic container requires a restart for the action performed by this deployed.

restartRequiredForNoop : **BOOLEAN** = *false*

The generic container requires a restart for the NOOP action performed by this deployed.

generic.AbstractDeployedArtifact

Hierarchy [generic.AbstractDeployed](#) >> [udm.BaseDeployed](#) >> [udm.BaseConfigurationItem](#)

Interfaces [udm.Deployed](#), [udm.ConfigurationItem](#)

Abstract deployed that can target any artifact to a generic container

Public Properties



container : **CI**<[udm.Container](#)>

The container on which this deployed runs.

deployable : **CI**<[udm.Deployable](#)>

The deployable that this deployed is derived from.

targetFile : **STRING**

Name of the artifact on the generic server.

Hidden Properties

createOrder : INTEGER = 50

The order of the step in the step list for the create operation.

createVerb : STRING = *Create*

Create Verb

destroyOrder : INTEGER = 40

The order of the step in the step list for the destroy operation.

destroyVerb : STRING = *Destroy*

Destroy Verb

modifyOrder : INTEGER = 50

The order of the step in the step list for the modify operation.

modifyVerb : STRING = *Modify*

Modify Verb

noopOrder : INTEGER = 50

The order of the step in the step list for the noop operation.

noopVerb : STRING = *Modify*

Noop Verb

targetDirectory : STRING

Path to which artifact must be copied to on the generic server.

createTargetDirectory : BOOLEAN = *false*

Create the target directory on the generic server if it does not exist.

restartRequired : BOOLEAN = *false*

The generic container requires a restart for the action performed by this deployed.

restartRequiredForNoop : BOOLEAN = *false*

The generic container requires a restart for the NOOP action performed by this deployed.

targetDirectoryShared : BOOLEAN = *true*

Is the target directory shared by others on the generic server. When true, the target directory is not deleted during a destroy operation; only the artifacts copied to it.

generic.Archive

Hierarchy udm.BaseDeployableArchiveArtifact >> udm.BaseDeployableFileArtifact >> udm.BaseDeployableArtifact >> udm.BaseDeployable >> udm.BaseConfigurationItem

Interfaces udm.Taggable, udm.Deployable, udm.SourceArtifact, udm.ArchiveArtifact, udm.Artifact, udm.DeployableArtifact, udm.ConfigurationItem, udm.FileArtifact

A generic, compressed binary artifact

Public Properties

placeholders : SET_OF_STRING

Placeholders detected in this artifact

scanPlaceholders : BOOLEAN = *true*

Scan Placeholders

tags : SET_OF_STRING

The tags to map deployables to containers.

Hidden Properties

textFileNamesRegex : STRING = *.\+\. (cfg | conf | config | ini | properties | props | txt | asp | aspx | htm | html | jsf | jsp | xht | xhtml | sql | xml | xsd | xsl | xslt)*

Regular expression that matches file names of text files

generic.Container

Hierarchy udm.BaseContainer >> udm.BaseConfigurationItem

Interfaces udm.Taggable, udm.ConfigurationItem, udm.Container, [generic.GenericContainer](#), overthere.HostContainer

A container to which generic CIs can be deployed. Start, stop and restart behavior of this container can be controlled using the corresponding script properties.

Public Properties



host : CI<overthere.Host>

Host upon which the container resides

envVars : MAP_STRING_STRING

Environment variables for container

tags : SET_OF_STRING

The tags to map deployables to containers.

Hidden Properties

restartOrder : INTEGER = 90

The order of the restart container step in the step list.

startOrder : INTEGER = 90

The order of the start container step in the step list.

startWaitTime : INTEGER = 0

The time to wait in seconds for a container start action.

stopOrder : INTEGER = 10

The order of the stop container step in the step list.

stopWaitTime : INTEGER = 0

The time to wait in seconds for a container stop action.

restartScript : STRING

Classpath to the script used to restart the generic container.

restartWaitTime : INTEGER = 0

The time to wait in seconds for a container restart action.

startScript : STRING

Classpath to the script used to start the generic container.

stopScript : STRING

Classpath to the script used to stop the generic container.

generic.CopiedArtifact

Hierarchy [generic.AbstractDeployedArtifact](#) >> [generic.AbstractDeployed](#) >> [udm.BaseDeployed](#) >> [udm.BaseConfigurationItem](#)

Interfaces [udm.Artifact](#), [udm.Deployed](#), [udm.ConfigurationItem](#), [udm.DerivedArtifact](#)

An artifact deployed on a generic container

Public Properties



container : CI<[udm.Container](#)>

The container on which this deployed runs.

deployable : CI<[udm.Deployable](#)>

The deployable that this deployed is derived from.

placeholders : MAP_STRING_STRING

A Map containing all the placeholders mapped to their values. Special values are <ignore> or <empty>

targetFile : STRING

Name of the artifact on the generic server.

Hidden Properties

createOrder : INTEGER = 50

The order of the step in the step list for the create operation.

createVerb : STRING = *Create*

Create Verb

destroyOrder : INTEGER = 40

The order of the step in the step list for the destroy operation.

destroyVerb : STRING = *Destroy*

Destroy Verb

modifyOrder : INTEGER = 50

The order of the step in the step list for the modify operation.

modifyVerb : STRING = *Modify*

Modify Verb

noopOrder : INTEGER = 50

The order of the step in the step list for the noop operation.

noopVerb : STRING = *Modify*

Noop Verb

targetDirectory : STRING

Path to which artifact must be copied to on the generic server.

createTargetDirectory : BOOLEAN = *false*

Create the target directory on the generic server if it does not exist.

restartRequired : BOOLEAN = *false*

The generic container requires a restart for the action performed by this deployed.

restartRequiredForNoop : BOOLEAN = *false*

The generic container requires a restart for the NOOP action performed by this deployed.

targetDirectoryShared : BOOLEAN = *true*

Is the target directory shared by others on the generic server. When true, the target directory is not deleted during a destroy operation; only the artifacts copied to it.

generic.ExecutedFolder

Hierarchy [generic.AbstractDeployed](#) >> [udm.BaseDeployed](#) >> [udm.BaseConfigurationItem](#)

Interfaces [udm.Artifact](#), [udm.Deployed](#), [udm.ConfigurationItem](#), [udm.DerivedArtifact](#)

Scripts in the folder are executed against a Container based on a naming convention

Public Properties



container : `CI<udm.Container>`

The container on which this deployed runs.

executorScript : `STRING`

Name of the executor script that will be executed for each script found in the folder.

rollbackScriptPostfix : `STRING`

A script's associated rollback script is derived by using the 1st group identified by the `scriptRecognitionRegex` and then appending this postfix to it. e.g give name '01-myscript.sql', regex '([0-9]*-*)\.sql' and rollback script postfix '-rollback.sql', we can derive the name of the associated rollback script to be '01-myscript-rollback.sql'

rollbackScriptRecognitionRegex : `STRING`

Regular expression used to identify a rollback script in the folder. A successful match should returns a single group, ie the logical script name. e.g. `[0-9]*-.*-rollback\.sql`

scriptRecognitionRegex : `STRING`

Regular expression used to identify a script in the folder. A successful match should returns a single group to which the `rollbackScriptPostfix` can be appended to inorder to find the associated rollback script or the script's dependent subfolder. e.g. `([0-9]*-*)\.sql`

deployable : `CI<udm.Deployable>`

The deployable that this deployed is derived from.

placeholders : `MAP_STRING_STRING`

A key/value pair mapping of placeholders in the deployed artifact to their values. Special values are and

Hidden Properties**commonScriptFolderName** : *STRING = common*

Common folder that should be uploaded to the working directory.

createOrder : *INTEGER = 50*

The order of the step in the step list for the create operation.

createVerb : *STRING = Create*

Create Verb

destroyOrder : *INTEGER = 40*

The order of the step in the step list for the destroy operation.

destroyVerb : *STRING = Destroy*

Destroy Verb

modifyOrder : *INTEGER = 50*

The order of the step in the step list for the modify operation.

modifyVerb : *STRING = Modify*

Modify Verb

noopOrder : *INTEGER = 50*

The order of the step in the step list for the noop operation.

noopVerb : *STRING = Modify*

Noop Verb

classpathResources : *SET_OF_STRING*

Additional classpath resources that should be uploaded to the working directory before executing the script.

restartRequired : *BOOLEAN = false*

The generic container requires a restart for the action performed by this deployed.

restartRequiredForNoop : *BOOLEAN = false*

The generic container requires a restart for the NOOP action performed by this deployed.

templateClasspathResources : *SET_OF_STRING*

Additional template classpath resources that should be uploaded to the working directory before executing the script. The template is first rendered and the rendered content copied to a file, with the same name as the template, in the working directory.

generic.ExecutedScript**Hierarchy** [generic.AbstractDeployed](#) >> [udm.BaseDeployed](#) >> [udm.BaseConfigurationItem](#)**Interfaces** [udm.Deployed](#), [udm.ConfigurationItem](#)

A script executed on a generic container

Public Properties



container : CI<udm.Container>

The container on which this deployed runs.

deployable : CI<udm.Deployable>

The deployable that this deployed is derived from.

Hidden Properties

createOrder : INTEGER = 50

The order of the step in the step list for the create operation.

createScript : STRING

Classpath to the script that is uploaded and executed on the generic container for the create operation.

createVerb : STRING = *Create*

Create Verb

destroyOrder : INTEGER = 40

The order of the step in the step list for the destroy operation.

destroyVerb : STRING = *Destroy*

Destroy Verb

modifyOrder : INTEGER = 50

The order of the step in the step list for the modify operation.

modifyVerb : STRING = *Modify*

Modify Verb

noopOrder : INTEGER = 50

The order of the step in the step list for the noop operation.

noopVerb : STRING = *Modify*

Noop Verb

classpathResources : SET_OF_STRING

Additional classpath resources that should be uploaded to the working directory before executing the script.

destroyScript : STRING

Classpath to the script that is uploaded and executed on the generic container for the destroy operation.

modifyScript : STRING

Classpath to the script that is uploaded and executed on the generic container for the modify operation.

noopScript : STRING

Classpath to the script that is uploaded and executed on the generic container for the noop operation.

remoteWorkingDirectoryPath : STRING

Name of working directory on target host. Default is to create a temporary directory which is deleted when connection is closed.

restartRequired : BOOLEAN = *false*

The generic container requires a restart for the action performed by this deployed.

restartRequiredForNoop : BOOLEAN = *false*

The generic container requires a restart for the NOOP action performed by this deployed.

retainRemoteWorkingDirectory : BOOLEAN = *false*

Retain the specified working directory on target host after completion.

templateClasspathResources : SET_OF_STRING

Additional template classpath resources that should be uploaded to the working directory before executing the

script. The template is first rendered and the rendered content copied to a file, with the same name as the template, in the working directory.

generic.ExecutedScriptWithDerivedArtifact

Hierarchy [generic.ExecutedScript](#) >> [generic.AbstractDeployed](#) >> [udm.BaseDeployed](#) >> [udm.BaseConfigurationItem](#)

Interfaces [udm.Artifact](#), [udm.Deployed](#), [udm.ConfigurationItem](#), [udm.DerivedArtifact](#)

A script executed on a generic container whose deployable artifact supports placeholder replacement

Public Properties



container : [CI<udm.Container>](#)

The container on which this deployed runs.

deployable : [CI<udm.Deployable>](#)

The deployable that this deployed is derived from.

placeholders : [MAP_STRING_STRING](#)

A key/value pair mapping of placeholders in the deployed artifact to their values. Special values are and

Hidden Properties

createOrder : INTEGER = 50

The order of the step in the step list for the create operation.

createScript : STRING

Classpath to the script that is uploaded and executed on the generic container for the create operation.

createVerb : STRING = *Create*

Create Verb

destroyOrder : INTEGER = 40

The order of the step in the step list for the destroy operation.

destroyVerb : STRING = *Destroy*

Destroy Verb

modifyOrder : INTEGER = 50

The order of the step in the step list for the modify operation.

modifyVerb : STRING = *Modify*

Modify Verb

noopOrder : INTEGER = 50

The order of the step in the step list for the noop operation.

noopVerb : STRING = *Modify*

Noop Verb

classpathResources : SET_OF_STRING

Additional classpath resources that should be uploaded to the working directory before executing the script.

destroyScript : STRING

Classpath to the script that is uploaded and executed on the generic container for the destroy operation.

modifyScript : STRING

Classpath to the script that is uploaded and executed on the generic container for the modify operation.

noopScript : STRING

Classpath to the script that is uploaded and executed on the generic container for the noop operation.

remoteWorkingDirectoryPath : STRING

Name of working directory on target host. Default is to create a temporary directory which is deleted when connection is closed.

restartRequired : BOOLEAN = *false*

The generic container requires a restart for the action performed by this deployed.

restartRequiredForNoop : BOOLEAN = *false*

The generic container requires a restart for the NOOP action performed by this deployed.

retainRemoteWorkingDirectory : BOOLEAN = *false*

Retain the specified working directory on target host after completion.

templateClasspathResources : SET_OF_STRING

Additional template classpath resources that should be uploaded to the working directory before executing the

script. The template is first rendered and the rendered content copied to a file, with the same name as the template, in the working directory.

generic.File

Hierarchy udm.BaseDeployableFileArtifact >> udm.BaseDeployableArtifact >> udm.BaseDeployable >> udm.BaseConfigurationItem

Interfaces udm.Taggable, udm.Deployable, udm.SourceArtifact, udm.Artifact, udm.DeployableArtifact, udm.ConfigurationItem, udm.FileArtifact

A generic binary artifact

Public Properties

placeholders : SET_OF_STRING

Placeholders detected in this artifact

scanPlaceholders : BOOLEAN = *true*

Scan Placeholders

tags : SET_OF_STRING

The tags to map deployables to containers.

Hidden Properties

textFileNamesRegex : STRING = *.\+\. (cfg | conf | config | ini | properties | props | txt | asp | aspx | htm | html | jsf | jsp | xht | xhtml | sql | xml | xsd | xsl | xslt)*

Regular expression that matches file names of text files

generic.Folder

Hierarchy udm.BaseDeployableFolderArtifact >> udm.BaseDeployableArtifact >> udm.BaseDeployable >> udm.BaseConfigurationItem

Interfaces udm.Taggable, udm.Deployable, udm.SourceArtifact, udm.Artifact, udm.DeployableArtifact, udm.ConfigurationItem, udm.FolderArtifact

A generic folder artifact

Public Properties

placeholders : SET_OF_STRING

Placeholders detected in this artifact

scanPlaceholders : BOOLEAN = *true*

Scan Placeholders

tags : SET_OF_STRING

The tags to map deployables to containers.

Hidden Properties

textFileNamesRegex : STRING = *.\+\. (cfg | conf | config | ini | properties | props | txt | asp | aspx | htm | html | jsf | jsp | xht | xhtml | sql | xml | xsd | xsl | xslt)*

Regular expression that matches file names of text files

generic.GenericContainer

null

generic.NestedContainer

Hierarchy udm.BaseContainer >> udm.BaseConfigurationItem

Interfaces udm.Taggable, udm.ConfigurationItem, udm.Container, [generic.GenericContainer](#), overthere.HostContainer

A container that is nested with another container

Public Properties

envVars : MAP_STRING_STRING

Environment variables for container

tags : SET_OF_STRING

The tags to map deployables to containers.

generic.ProcessedTemplate

Hierarchy [generic.AbstractDeployedArtifact](#) >> [generic.AbstractDeployed](#) >> udm.BaseDeployed >> udm.BaseConfigurationItem

Interfaces udm.Deployed, udm.ConfigurationItem

A template deployed to a generic container

Public Properties



container : CI<udm.Container>

The container on which this deployed runs.

deployable : CI<udm.Deployable>

The deployable that this deployed is derived from.

targetFile : STRING

Name of the artifact on the generic server.

Hidden Properties

createOrder : *INTEGER = 50*

The order of the step in the step list for the create operation.

createVerb : *STRING = Create*

Create Verb

destroyOrder : *INTEGER = 40*

The order of the step in the step list for the destroy operation.

destroyVerb : *STRING = Destroy*

Destroy Verb

modifyOrder : *INTEGER = 50*

The order of the step in the step list for the modify operation.

modifyVerb : *STRING = Modify*

Modify Verb

noopOrder : *INTEGER = 50*

The order of the step in the step list for the noop operation.

noopVerb : *STRING = Modify*

Noop Verb

targetDirectory : *STRING*

Path to which artifact must be copied to on the generic server.

template : *STRING*

Classpath to the freemarker template used to generate the content of the final text base artifact.

createTargetDirectory : *BOOLEAN = false*

Create the target directory on the generic server if it does not exist.

restartRequired : *BOOLEAN = false*

The generic container requires a restart for the action performed by this deployed.

restartRequiredForNoop : *BOOLEAN = false*

The generic container requires a restart for the NOOP action performed by this deployed.

targetDirectoryShared : *BOOLEAN = true*

Is the target directory shared by others on the generic server. When true, the target directory is not deleted during a destroy operation; only the artifacts copied to it.

generic.Resource

Hierarchy udm.BaseDeployable >> udm.BaseConfigurationItem

Interfaces udm.Tagable, udm.Deployable, udm.ConfigurationItem

A generic resource specification

Public Properties

tags : SET_OF_STRING

The tags to map deployables to containers.