

Deployit Generic Model Plugin Manual

Version 3.7.5

Table of Contents

Table of Contents	2
Preface	3
Overview	3
Features	3
Requirements	3
Plugin Concepts	3
Container	3
NestedContainer	3
Copied Artifact	3
Executed Script	3
Executed Folder	4
Processed Template	4
Templating	4
Control Tasks	4
Using the deployables and deployed	5
Deployable vs. Container Table	5
Deployed Actions Table	5
Sample Usage Scenario - Deploying a new middleware platform	5
Defining the Container	5
Defining a Configuration File	6
Defining a WAR	6
Defining a Datasource	6
Discovery	7
Encoding	7
Property Inspection	7
Inspecting Set properties	7
Inspecting Map properties	8
Configuration Item Discovery	8
CI Reference	8
Configuration Item Overview	8
Topology Configuration Items	8
Virtual Deployable Configuration Items	8
Virtual Deployed Configuration Items	8
Virtual Topology Configuration Items	9
Configuration Item Details	9
generic.AbstractDeployed	9
generic.AbstractDeployedArtifact	9
generic.Archive	10
generic.Container	11
generic.CopiedArtifact	11
generic.ExecutedFolder	12
generic.ExecutedScript	13
generic.ExecutedScriptWithDerivedArtifact	14
generic.File	16
generic.Folder	16
generic.NestedContainer	16
generic.ProcessedTemplate	17
generic.Resource	18
overthere.CifsHost	18
overthere.Host	19
overthere.Jumpstation	19
overthere.LocalHost	20
overthere.SshHost	20
overthere.SshJumpstation	21

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.

Note: since Deployit version 3.6, the deployments in the Generic Model Plugin can target containers that implement the [HostContainer](#) interface. In addition to the [Container](#) and derived CIs, this means they can also be targeted to CIs derived from [Host](#).

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.

NestedContainer

A [Nested Container](#) is a topology CI and models middleware in your infrastructure. The nested container allows for the modelling of abstract middleware concepts as containers to which items can be deployed.

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 [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 [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

CIs 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.

Deployable	Containers	Generated deployed
generic.File generic.Archive	overthere.HostContainer	generic.CopiedArtifact
any deployable	overthere.HostContainer	generic.ExecutedScript
any folder deployable	overthere.HostContainer	generic.ExecutedFolder
any deployable	overthere.HostContainer	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 targeting 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.

Discovery

The Generic Model plugin supports discovery in any subtype of [Container](#), [Nested Container](#) and [Deployed](#). Extenders of the plugin provide shell scripts that interact with the discovery mechanism, via the standard out, with specially formatted output representing the inspected property or discovered configuration item.

```
<!-- Sample of extending Generic Mode plugin -->
<type type="sample.TomcatServer" extends="generic.Container">
  ...
  <property name="inspectScript" default="inspect/inspect-server"
hidden="true"/>
</type>

<type type="sample.VirtualHost" extends="sample.NestedContainer">
  <property name="server" kind="ci" as-containment="true" referenced-
type="sample.TomcatServer"/>
  ...
  <property name="inspectScript" default="inspect/inspect-virtualhost"
hidden="true"/>
</type>

<type type="sample.DataSource" extends="generic.ProcessedTemplate" deployable-
type="sample.DataSourceSpec"
  container-type="sample.Server">
  <generate-deployable type="sample.DataSourceSpec"
extends="generic.Resource"/>
  <property name="inspectScript" default="inspect/inspect-ds" hidden="true"/>
  ...
</type>
```

Encoding

The discovery mechanism uses URL encoding as described in [RFC3986](#) to interpret the value of an inspected property. It is the responsibility of the plugin extender to perform said encoding in the inspect shell scripts.

Sample of encoding in a BASH shell script

```
function encode()
{
  local myresult=$(printf "%b" "$1" | perl -pe's/([^\._~A-Za-z0-9])/sprintf("%%%02X", ord($1))/seg')
  echo "$myresult"
}
myString='This is a string spanning many lines and with funky characters like
!@#%^&*() and \'|'\"';<>.[{}]'
myEncodedString = $(encode "$myString")
echo $myEncodedString
```

Property Inspection

The discovery mechanism identifies an inspected property when output with the following format is sent to the standard out.

```
INSPECTED:propertyName=value
```

The output must be prefixed with *INSPECTED*: followed by the name of the inspected property, an = sign and then the encoded value of the property.

Sample :

```
echo INSPECTED:stringField=A,value,with,commas
echo INSPECTED:intField=1999
echo INSPECTED:boolField=true
```

Inspecting Set properties

When an inspected property is a set of strings, the value must be comma separated

```
INSPECTED:propertyName=value1,value2,value3
```

Sample :

```
echo INSPECTED:stringSetField=$(encode 'Jac,q,ues'),de,Molay
# will result in the following output
# INSPECTED:stringSetField=Jac%2Cq%2Cues,de,Molay
```

Inspecting Map properties

When an inspected property is a map of strings, entries must be comma separated and key values must be colon separated

```
INSPECTED:propertyName=key1:value1,key2:value2,key3:value3
```

Sample :

```
echo INSPECTED:mapField=first:$(encode 'Jac,q,ues'),second:2
# will result in the following output
# INSPECTED:mapField=first:Jac%2Cq%2Cues,second:2
```

Configuration Item Discovery

The discovery mechanism identifies a discovered configuration item when output with the following format is sent to the standard out.

```
DISCOVERED:configurationItemId=type
```

The output must be prefixed with DISCOVERED:_ followed by the id of the configuration item as stored in the Deployit repository, an = sign and the type of the configuration item

Sample :

```
echo DISCOVERED:Infrastructure/tomcat/defaultContext=sample.VirtualHost
```

CI Reference

Configuration Item Overview

Topology Configuration Items

CI	Description
overthere.CifsHost	Machine that can be connected to using either WinRM or Telnet and can perform file manipulation via the CIFS protocol
overthere.LocalHost	Machine on which the Deployit Server is running
overthere.SshHost	Machine that can be connected to using SSH
overthere.SshJumpstation	Machine that can be used to create a tunneled connection to a destination host

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
	A script executed on a generic container

generic.ExecutedScriptWithDerivedArtifact	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.NestedContainer	A container that is nested with another container
overthere.Host	Machine that runs middleware, on which scripts can be executed, etc
overthere.Jumpstation	Base class for jumpstations


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	
inspectClasspathResources : SET_OF_STRING	
Additional classpath resources that should be uploaded to the working directory before executing the inspect script.	
inspectScript : STRING	
Classpath to the script used to inspect the generic container.	
inspectTemplateClasspathResources : SET_OF_STRING	
Additional template classpath resources that should be uploaded to the working directory before executing the inspect 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.	
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.

inspectClasspathResources : `SET_OF_STRING`

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

inspectScript : `STRING`

Classpath to the script used to inspect the generic container.

inspectTemplateClasspathResources : `SET_OF_STRING`

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

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**excludeFileNamesRegex** : `STRING`

Regular expression that matches file names that must be excluded from scanning

placeholders : `SET_OF_STRING`

Placeholders detected in this artifact

scanPlaceholders : `BOOLEAN = true`

Scan Placeholders

tags : SET_OF_STRING

If set, this deployable will only be mapped automatically to containers with the same tag.

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

If set, only deployables with the same tag will be automatically mapped to this container.

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.

inspectClasspathResources : SET_OF_STRING

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

inspectScript : STRING

Classpath to the script used to inspect the generic container.

inspectTemplateClasspathResources : SET_OF_STRING

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

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.

inspectClasspathResources : [SET_OF_STRING](#)

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

inspectScript : [STRING](#)

Classpath to the script used to inspect the generic container.

inspectTemplateClasspathResources : [SET_OF_STRING](#)

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

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.
inspectClasspathResources : SET_OF_STRING
Additional classpath resources that should be uploaded to the working directory before executing the inspect script.
inspectScript : STRING
Classpath to the script used to inspect the generic container.
inspectTemplateClasspathResources : SET_OF_STRING
Additional template classpath resources that should be uploaded to the working directory before executing the inspect 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.
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.

inspectClasspathResources : [SET_OF_STRING](#)

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

inspectScript : [STRING](#)

Classpath to the script used to inspect the generic container.

inspectTemplateClasspathResources : [SET_OF_STRING](#)

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

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.

inspectClasspathResources : `SET_OF_STRING`

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

inspectScript : `STRING`

Classpath to the script used to inspect the generic container.

inspectTemplateClasspathResources : `SET_OF_STRING`

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

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

excludeFileNamesRegex : **STRING**

Regular expression that matches file names that must be excluded from scanning

placeholders : **SET_OF_STRING**

Placeholders detected in this artifact

scanPlaceholders : **BOOLEAN** = **true**

Scan Placeholders

tags : **SET_OF_STRING**

If set, this deployable will only be mapped automatically to containers with the same tag.

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

excludeFileNamesRegex : **STRING**

Regular expression that matches file names that must be excluded from scanning

placeholders : **SET_OF_STRING**

Placeholders detected in this artifact

scanPlaceholders : **BOOLEAN** = **true**

Scan Placeholders

tags : **SET_OF_STRING**

If set, this deployable will only be mapped automatically to containers with the same tag.

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.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**

If set, only deployables with the same tag will be automatically mapped to this container.

Hidden Properties

inspectClasspathResources : **SET_OF_STRING**

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

inspectScript : **STRING**

Classpath to the script used to inspect the generic container.

inspectTemplateClasspathResources : **SET_OF_STRING**

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

inspectClasspathResources : **SET_OF_STRING**

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

inspectScript : **STRING**

Classpath to the script used to inspect the generic container.

inspectTemplateClasspathResources : **SET_OF_STRING**

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

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.Taggable, udm.Deployable, udm.ConfigurationItem

A generic resource specification

Public Properties

tags : SET_OF_STRING

If set, this deployable will only be mapped automatically to containers with the same tag.

overthere.CifsHost

Hierarchy [overthere.Host](#) >> udm.BaseContainer >> udm.BaseConfigurationItem

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

Machine that can be connected to using either WinRM or Telnet and can perform file manipulation via the CIFS protocol

Public Properties

address : STRING

Address of the host

connectionType : ENUM [TELNET, WINRM, WINRM_HTTP, WINRM_HTTPS] = WINRM

Connection Type

os : ENUM [WINDOWS, UNIX]

Operating system

password : STRING

Password to use for authentication

username : STRING

Username to connect with

cifsPort : INTEGER = 445

Port on which the CIFS server runs

jumpstation : CI<[overthere.Jumpstation](#)>

Jumpstation that should be used to reach this host

pathShareMappings : MAP_STRING_STRING

Mapping from Windows paths to Windows share names, e.g. C:\IBM\WebSphere -> WebSphereShare

port : INTEGER

Port on which the Telnet or WinRM server runs

tags : SET_OF_STRING

If set, only deployables with the same tag will be automatically mapped to this container.

temporaryDirectoryPath : STRING

Directory into which temporary files are stored. Will be cleaned up when the connection is closed.

winrmEnableHttps : BOOLEAN = false

Enable SSL communication to the WinRM server

Hidden Properties

connectionTimeoutMillis : INTEGER = 1200000

Number of milliseconds Overthere waits for a connection to a remote host to be established

protocol : STRING = cifs

Protocol

tmpFileCreationRetries : INTEGER = 1000

Number of times Overthere attempts to create a temporary file with a unique name

winrmContext : STRING = /wsman

Context used by the WinRM server

winrmEnvelopeSize : INTEGER = 153600

Envelope size for WinRM messages

winrmHttpsCertificateTrustStrategy : ENUM [STRICT, SELF_SIGNED, ALLOW_ALL] = STRICT

HTTPS certificate trust strategy for WinRM over HTTPS

winrmHttpsHostnameVerificationStrategy : ENUM [STRICT, BROWSER_COMPATIBLE, ALLOW_ALL] = STRICT

HTTPS host name verification strategy for WinRM over HTTPS
winrmLocale : **STRING** = **en-US**
 Locale to use for WinRM messages
winrmTimeout : **STRING** = **PT60.000S**
 Timeout to use for WinRM messages in XML schema duration format
tmpDeleteOnDisconnect : **BOOLEAN** = **true**
 Whether to delete the temporary connection directory when the connection is closed
winrmDebugKerberosAuth : **BOOLEAN** = **false**
 If true, enabled Kerberos debug messages

Control Tasks

checkConnection

Check connection

overthere.Host

Hierarchy udm.BaseContainer >> udm.BaseConfigurationItem

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

Machine that runs middleware, on which scripts can be executed, etc.

Public Properties

os : **ENUM** [WINDOWS, UNIX]

Operating system

jumpstation : **CI**<[overthere.Jumpstation](#)>

Jumpstation that should be used to reach this host

tags : **SET_OF_STRING**

If set, only deployables with the same tag will be automatically mapped to this container.

temporaryDirectoryPath : **STRING**

Directory into which temporary files are stored. Will be cleaned up when the connection is closed.

Hidden Properties

connectionTimeoutMillis : **INTEGER** = 1200000

Number of milliseconds Overthere waits for a connection to a remote host to be established

protocol : **STRING**

Protocol to use when connecting to this host

tmpFileCreationRetries : **INTEGER** = 1000

Number of times Overthere attempts to create a temporary file with a unique name

tmpDeleteOnDisconnect : **BOOLEAN** = **true**

Whether to delete the temporary connection directory when the connection is closed

Control Tasks

checkConnection

Check connection

overthere.Jumpstation

Hierarchy [overthere.Host](#) >> udm.BaseContainer >> udm.BaseConfigurationItem

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

Base class for jumpstations

Public Properties

jumpstation : **CI**<[overthere.Jumpstation](#)>

Jumpstation that should be used to reach this host

tags : **SET_OF_STRING**

If set, only deployables with the same tag will be automatically mapped to this container.

Hidden Properties

connectionTimeoutMillis : **INTEGER** = 1200000

Number of milliseconds Overthere waits for a connection to a remote host to be established

os : **ENUM** [WINDOWS, UNIX] = **UNIX**

Os
protocol : STRING
Protocol to use when connecting to this host
tmpFileCreationRetries : INTEGER = 1000
Number of times Overthere attempts to create a temporary file with a unique name
temporaryDirectoryPath : STRING
The default platform value (/tmp) suffices as no temporary files will be placed on the jumpstation
tmpDeleteOnDisconnect : BOOLEAN = true
Whether to delete the temporary connection directory when the connection is closed

Control Tasks**checkConnection**

Check connection

overthere.LocalHost**Hierarchy** [overthere.Host](#) >> udm.BaseContainer >> udm.BaseConfigurationItem**Interfaces** udm.Taggable, udm.ConfigurationItem, udm.Container,
[overthere.HostContainer](#)

Machine on which the Deployit Server is running

Public Properties**os** : **ENUM** [WINDOWS, UNIX]

Operating system

jumpstation : **CI**<[overthere.Jumpstation](#)>

Jumpstation that should be used to reach this host

tags : **SET_OF_STRING**

If set, only deployables with the same tag will be automatically mapped to this container.

temporaryDirectoryPath : **STRING**

Directory into which temporary files are stored. Will be cleaned up when the connection is closed.

Hidden Properties**connectionTimeoutMillis** : **INTEGER** = 1200000

Number of milliseconds Overthere waits for a connection to a remote host to be established

protocol : **STRING** = local

Protocol

tmpFileCreationRetries : **INTEGER** = 1000

Number of times Overthere attempts to create a temporary file with a unique name

tmpDeleteOnDisconnect : **BOOLEAN** = true

Whether to delete the temporary connection directory when the connection is closed

Control Tasks**checkConnection**

Check connection

overthere.SshHost**Hierarchy** [overthere.Host](#) >> udm.BaseContainer >> udm.BaseConfigurationItem**Interfaces** udm.Taggable, udm.ConfigurationItem, udm.Container,
[overthere.HostContainer](#)

Machine that can be connected to using SSH

Public Properties**address** : **STRING**

Address of the host

connectionType : **ENUM** [SFTP, SFTP_CYGWIN, SFTP_WINSSHD, SCP, SUDO, INTERACTIVE_SUDO, TUNNEL] = SFTP

Type of SSH connection to create

os : **ENUM** [WINDOWS, UNIX]

Operating system

port : **INTEGER** = 22

Port on which the SSH server runs

username : STRING
Username to connect with
jumpstation : CI<overthere.Jumpstation>
Jumpstation that should be used to reach this host
passphrase : STRING
Optional passphrase for the private key in the private key file
password : STRING
Password to use for authentication
privateKeyFile : STRING
Private key file to use for authentication
sudoUsername : STRING
Username to sudo to when accessing files or executing commands
tags : SET_OF_STRING
If set, only deployables with the same tag will be automatically mapped to this container.
temporaryDirectoryPath : STRING
Directory into which temporary files are stored. Will be cleaned up when the connection is closed.

Hidden Properties

connectionTimeoutMillis : INTEGER = 1200000
Number of milliseconds Overthere waits for a connection to a remote host to be established
interactiveKeyboardAuthRegex : STRING = .*Password:[]?
Regular expression to look for in keyboard-interactive authentication before sending the password
protocol : STRING = ssh
Protocol
sudoCommandPrefix : STRING = sudo -u {0}
Sudo command to prefix to the original command. The placeholder {0} is replaced with the sudoUsername
sudoPasswordPromptRegex : STRING = .*[Pp]assword.*:
Regular expression to look for in interactive sudo before sending the password
tmpFileCreationRetries : INTEGER = 1000
Number of times Overthere attempts to create a temporary file with a unique name
allocateDefaultPty : BOOLEAN = false
If true, a default PTY (dummy:80:24:0:0) is allocated when executing a command
allocatePty : STRING
Specification for the PTY to be allocated when executing a command. The format is TERM:COLS:ROWS:WIDTH:HEIGHT, e.g. xterm:80:24:0:0
sudoOverrideUmask : BOOLEAN = true
If true, permissions are explicitly changed with chmod -R go+rX after uploading a file or directory
sudoPreserveAttributesOnCopyFromTempFile : BOOLEAN = true
If true, files are copied from the connection temporary directory using the -p flag to the cp command
sudoPreserveAttributesOnCopyToTempFile : BOOLEAN = true
If true, files are copied to the connection temporary directory using the -p flag to the cp command
sudoQuoteCommand : BOOLEAN = false
If true, the original command is quoted when it is prefixed with sudoCommandPrefix
tmpDeleteOnDisconnect : BOOLEAN = true
Whether to delete the temporary connection directory when the connection is closed

Control Tasks

checkConnection

Check connection

overthere.SshJumpstation

Hierarchy [overthere.Jumpstation](#) >> [overthere.Host](#) >> [udm.BaseContainer](#) >> [udm.BaseConfigurationItem](#)

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

Machine that can be used to create a tunneled connection to a destination host

Public Properties**address** : **STRING**

Address of the host

port : **INTEGER** = 22

Port on which the SSH server runs

username : **STRING**

Username to connect with

jumpstation : **CI**<overthere.Jumpstation>

Jumpstation that should be used to reach this host

passphrase : **STRING**

Optional passphrase for the private key in the private key file

password : **STRING**

Password to use for authentication

privateKeyFile : **STRING**

Private key file to use for authentication

tags : **SET_OF_STRING**

If set, only deployables with the same tag will be automatically mapped to this container.

Hidden Properties**connectionTimeoutMillis** : **INTEGER** = 1200000

Number of milliseconds Overthere waits for a connection to a remote host to be established

connectionType : **ENUM** [SFTP, SFTP_CYGWIN, SFTP_WINSSHD, SCP, SUDO, INTERACTIVE_SUDO, TUNNEL] = TUNNEL

Connection Type

interactiveKeyboardAuthRegex : **STRING** = .*Password:[]?

Regular expression to look for in keyboard-interactive authentication before sending the password

os : **ENUM** [WINDOWS, UNIX] = UNIX

Os

portAllocationRangeStart : **INTEGER** = 1025

Port from where to start looking for freely available ports to use as the local part of an SSH port forward

protocol : **STRING** = ssh

Protocol

tmpFileCreationRetries : **INTEGER** = 1000

Number of times Overthere attempts to create a temporary file with a unique name

temporaryDirectoryPath : **STRING**

The default platform value (/tmp) suffices as no temporary files will be placed on the jumpstation

tmpDeleteOnDisconnect : **BOOLEAN** = true

Whether to delete the temporary connection directory when the connection is closed

Control Tasks**checkConnection**

Check connection