

Deployit File Plugin Manual

Version 3.9.1

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Preface

This document describes the functionality provided by the File Plugin.

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

Overview

In many cases, an application depends on external resources for its configuration. The application accesses these resources from a predefined location or using a predefined mechanism. In the simplest of forms, a resource can be described as a file, an archive or a folder (collection of files). The File Plugin enables the definition of such resources in a deployment package and subsequently managing them on a target host. The resources can contain placeholders that the plugin will replace when targeting to the specific host, thus allowing resources to be defined independent of their environment.

Features

- Deploy, upgrade, and undeploy of a file based resource on a [Host](#).
 - [File](#)
 - [Folder](#)
 - [Archive](#)

Requirements

This plugin requires:

- **Deployit:** version 3.5+

Usage in Deployment Packages

Please refer to *Packaging Manual* for more details about the DAR packaging format.

Sample DAR MANIFEST.MF entries defining a file, folder and archive resource

```
Manifest-Version: 1.0
Deployit-Package-Format-Version: 1.3
CI-Application: FilePluginSample
CI-Version: 1.0

Name: sampleFile.txt
CI-Name: sampleFile
CI-Type: file.File

Name: sampleArchive.zip
CI-Name: sampleArchive
CI-Type: file.Archive

Name: sampleFolder
CI-Name: sampleFolder
CI-Type: file.Folder
```

Using the deployables and deployed

Deployable vs. Container Table

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

Deployables	Containers	Generated Deployed
file.File file.Archive	overthere.Host	file.DeployedFile file.DeployedArchive
file.Folder	overthere.Host	file.DeployedFolder

Deployed Actions Table

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

Deployed	Create	Destroy	Modify
file.DeployedFile file.DeployedArchive	<ul style="list-style-type: none"> • Create target path on host, if needed 	<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

	<ul style="list-style-type: none"> Copy file to target path on host 		
file.DeployedFolder	<ul style="list-style-type: none"> Create target folder on host, if needed Copy folder content to target folder on host 	<ul style="list-style-type: none"> Delete folder content from host If folder is not a shared folder, the folder itself is deleted from host 	<ul style="list-style-type: none"> Perform actions as described by <i>Destroy</i> for old folder Perform actions as described by <i>Create</i> for modified folder

CI Reference

Configuration Item Overview

Deployables

CI	Description
file.Archive	An archive (zip, jar, tar, etc) artifact that can be packaged in a Deployment Package
file.File	A single file artifact that can be packaged in a Deployment Package
file.Folder	A folder artifact that can be packaged in a Deployment Package

Deployeds

CI	Description
file.DeployedArchive	The archive as deployed on the Host
file.DeployedArtifactOnHost	Abstract deployed that can target any DeployableArtifact to a Host
file.DeployedFile	The file as deployed on the Host
file.DeployedFolder	The folder as deployed on the Host

Other Configuration Items

CI	Description
file.Archive	An archive (zip, jar, tar, etc) artifact that can be packaged in a Deployment Package
file.DeployedArchive	The archive as deployed on the Host
file.DeployedArtifactOnHost	Abstract deployed that can target any DeployableArtifact to a Host
file.DeployedFile	The file as deployed on the Host
file.DeployedFolder	The folder as deployed on the Host
file.File	A single file artifact that can be packaged in a Deployment Package
file.Folder	A folder artifact that can be packaged in a Deployment Package

Configuration Item Details

file.Archive

Type 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

An archive (zip, jar, tar, etc) artifact that can be packaged in a Deployment Package

Public Properties	
checksum : STRING	The checksum used to detect differences on the artifact. If not provided, it will be calculated by Deployit.
createTargetPath : STRING	Create the targetPath on the host if it does not exist.
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 = false	Whether to scan this artifact for placeholders when it is imported
tags : SET_OF_STRING	If set, this deployable will only be mapped automatically to containers with the same tag.
targetFileName : STRING	Name of the artifact on the host.
targetPath : STRING	Path to which artifact must be copied to when being deployed.
targetPathShared : STRING	Is the targetPath shared by others on the host. When true, the targetPath is not deleted during undeployment; only the artifacts copied to it.
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

file.DeployedArchive

Type Hierarchy	file.DeployedArtifactOnHost >> udm.BaseDeployedArtifact >> udm.BaseDeployed >> udm.BaseConfigurationItem
Interfaces	udm.EmbeddedDeployedContainer , udm.Artifact , udm.Deployed , udm.ConfigurationItem , udm.DerivedArtifact

The archive as deployed on the Host.

Parent	
* container : CI < udm.Container >	The container on which this deployed runs.
Public Properties	
* targetPath : STRING	Path to which artifact must be copied to on the host.
createTargetPath : BOOLEAN = false	Create the targetPath on the host if it does not exist.
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>
targetFileName : STRING	Name of the artifact on the host.
targetPathShared : BOOLEAN = true	Is the targetPath shared by others on the host. When true, the targetPath is not deleted during undeployment; only the artifacts copied to it.
Hidden Properties	
targetPathSharedSubDirectories : BOOLEAN = false	The sub directories on the target machine are not deleted if files other than that copied by Deployit are present.

file.DeployedArtifactOnHost

Virtual Type	
Type Hierarchy	udm.BaseDeployedArtifact >> udm.BaseDeployed >> udm.BaseConfigurationItem
Interfaces	udm.EmbeddedDeployedContainer , udm.Artifact , udm.Deployed , udm.ConfigurationItem , udm.DerivedArtifact

Abstract deployed that can target any DeployableArtifact to a Host.

Parent	
* container : <code>CI<udm.Container></code>	The container on which this deployed runs.
Public Properties	
* targetPath : <code>STRING</code>	Path to which artifact must be copied to on the host.
createTargetPath : <code>BOOLEAN = false</code>	Create the targetPath on the host if it does not exist.
deployable : <code>CI<udm.Deployable></code>	The deployable that this deployed is derived from.
placeholders : <code>MAP_STRING_STRING</code>	A Map containing all the placeholders mapped to their values. Special values are <ignore> or <empty>
targetFileName : <code>STRING</code>	Name of the artifact on the host.
targetPathShared : <code>BOOLEAN = true</code>	Is the targetPath shared by others on the host. When true, the targetPath is not deleted during undeployment; only the artifacts copied to it.
Hidden Properties	
targetPathSharedSubDirectories : <code>BOOLEAN = false</code>	The sub directories on the target machine are not deleted if files other than that copied by Deployit are present.

file.DeployedFile

Type Hierarchy `file.DeployedArtifactOnHost` >> `udm.BaseDeployedArtifact` >> `udm.BaseDeployed` >> `udm.BaseConfigurationItem`

Interfaces `udm.EmbeddedDeployedContainer`, `udm.Artifact`, `udm.Deployed`, `udm.ConfigurationItem`, `udm.DerivedArtifact`

The file as deployed on the Host.

Parent	
* container : <code>CI<udm.Container></code>	The container on which this deployed runs.
Public Properties	
* targetPath : <code>STRING</code>	Path to which artifact must be copied to on the host.
createTargetPath : <code>BOOLEAN = false</code>	Create the targetPath on the host if it does not exist.
deployable : <code>CI<udm.Deployable></code>	The deployable that this deployed is derived from.
placeholders : <code>MAP_STRING_STRING</code>	A Map containing all the placeholders mapped to their values. Special values are <ignore> or <empty>
targetFileName : <code>STRING</code>	Name of the artifact on the host.
targetPathShared : <code>BOOLEAN = true</code>	Is the targetPath shared by others on the host. When true, the targetPath is not deleted during undeployment; only the artifacts copied to it.
Hidden Properties	
targetPathSharedSubDirectories : <code>BOOLEAN = false</code>	The sub directories on the target machine are not deleted if files other than that copied by Deployit are present.

file.DeployedFolder

Type Hierarchy `file.DeployedArtifactOnHost` >> `udm.BaseDeployedArtifact` >> `udm.BaseDeployed` >> `udm.BaseConfigurationItem`

Interfaces `udm.EmbeddedDeployedContainer`, `udm.Artifact`, `udm.Deployed`, `udm.ConfigurationItem`, `udm.DerivedArtifact`

The folder as deployed on the Host.

Parent	
* container : <code>CI<udm.Container></code>	The container on which this deployed runs.
Public Properties	
* targetPath : <code>STRING</code>	Path to which artifact must be copied to on the host.
createTargetPath : <code>BOOLEAN = false</code>	Create the targetPath on the host if it does not exist.
deployable : <code>CI<udm.Deployable></code>	The deployable that this deployed is derived from.
placeholders : <code>MAP_STRING_STRING</code>	A Map containing all the placeholders mapped to their values. Special values are <ignore> or <empty>
targetPathShared : <code>BOOLEAN = true</code>	Is the targetPath shared by others on the host. When true, the targetPath is not deleted during undeployment; only the artifacts copied to it.
Hidden Properties	
targetFileName : <code>STRING</code>	Not applicable for this type.
targetPathSharedSubDirectories : <code>BOOLEAN = false</code>	The sub directories on the target machine are not deleted if files other than that copied by Deployit are present.

file.File

Type 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 single file artifact that can be packaged in a Deployment Package

Public Properties	
checksum : <code>STRING</code>	The checksum used to detect differences on the artifact. If not provided, it will be calculated by Deployit.
createTargetPath : <code>STRING</code>	Create the targetPath on the host if it does not exist.
excludeFileNamesRegex : <code>STRING</code>	Regular expression that matches file names that must be excluded from scanning
placeholders : <code>SET_OF_STRING</code>	Placeholders detected in this artifact
scanPlaceholders : <code>BOOLEAN = true</code>	Whether to scan this artifact for placeholders when it is imported
tags : <code>SET_OF_STRING</code>	If set, this deployable will only be mapped automatically to containers with the same tag.
targetFileName : <code>STRING</code>	Name of the artifact on the host.
targetPath : <code>STRING</code>	Path to which artifact must be copied to when being deployed.
targetPathShared : <code>STRING</code>	Is the targetPath shared by others on the host. When true, the targetPath is not deleted during undeployment; only the artifacts copied to it.
Hidden Properties	
* textFileNamesRegex : <code>STRING = .+\. (cfg conf config ini properties props txt asp aspx htm html jsf jsp xht xhtml sql xml xsd xsl xslt)</code>	Regular expression that matches file names of text files

file.Folder

Type 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 folder artifact that can be packaged in a Deployment Package

Public Properties	
checksum :	STRING The checksum used to detect differences on the artifact. If not provided, it will be calculated by Deployit.
createTargetPath :	STRING Create the targetPath on the host if it does not exist.
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 Whether to scan this artifact for placeholders when it is imported
tags :	SET_OF_STRING If set, this deployable will only be mapped automatically to containers with the same tag.
targetFileName :	STRING Name of the artifact on the host.
targetPath :	STRING Path to which artifact must be copied to when being deployed.
targetPathShared :	STRING Is the targetPath shared by others on the host. When true, the targetPath is not deleted during undeployment; only the artifacts copied to it.
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