

# Deployit File Plugin Manual

Version 3.9.2

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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"> <li>• Create target path on host, if needed</li> </ul>	<ul style="list-style-type: none"> <li>• Delete file from host</li> </ul>	<ul style="list-style-type: none"> <li>• Delete old file from host</li> <li>• Copy modified file to target path on host</li> </ul>

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

## CI Reference

### Configuration Item Overview

#### Deployables

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

#### Deployeds

CI	Description
<a href="#">file.DeployedArchive</a>	The archive as deployed on the Host
<a href="#">file.DeployedArtifactOnHost</a>	Abstract deployed that can target any DeployableArtifact to a Host
<a href="#">file.DeployedFile</a>	The file as deployed on the Host
<a href="#">file.DeployedFolder</a>	The folder as deployed on the Host

#### Other Configuration Items

CI	Description
<a href="#">file.Archive</a>	An archive (zip, jar, tar, etc) artifact that can be packaged in a Deployment Package
<a href="#">file.DeployedArchive</a>	The archive as deployed on the Host
<a href="#">file.DeployedArtifactOnHost</a>	Abstract deployed that can target any DeployableArtifact to a Host
<a href="#">file.DeployedFile</a>	The file as deployed on the Host
<a href="#">file.DeployedFolder</a>	The folder as deployed on the Host
<a href="#">file.File</a>	A single file artifact that can be packaged in a Deployment Package
<a href="#">file.Folder</a>	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	
<b>checksum</b> : <b>STRING</b>	The checksum used to detect differences on the artifact. If not provided, it will be calculated by Deployit.
<b>createTargetPath</b> : <b>STRING</b>	Create the targetPath on the host if it does not exist.
<b>excludeFileNamesRegex</b> : <b>STRING</b>	Regular expression that matches file names that must be excluded from scanning
<b>placeholders</b> : <b>SET_OF_STRING</b>	Placeholders detected in this artifact
<b>scanPlaceholders</b> : <b>BOOLEAN</b> = <b>false</b>	Whether to scan this artifact for placeholders when it is imported
<b>tags</b> : <b>SET_OF_STRING</b>	If set, this deployable will only be mapped automatically to containers with the same tag.
<b>targetFileName</b> : <b>STRING</b>	Name of the artifact on the host.
<b>targetPath</b> : <b>STRING</b>	Path to which artifact must be copied to when being deployed.
<b>targetPathShared</b> : <b>STRING</b>	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	
* <b>textFileNamesRegex</b> : <b>STRING</b> = <b>.\.(\.cfg   conf   config   ini   properties   props   txt   asp   aspx   htm   html   jsf   jsp   xht   xhtml   sql   xml   xsd   xsl   xslt)</b>	Regular expression that matches file names of text files
<b>delimiters</b> : <b>STRING</b> = <b>{{ }}</b>	The delimiters used indicate placeholders, defaults to '{{ }}'. This is a 5 character string with a space in the middle, the first two are the leading delimiter, the last two are the closing delimiter

## 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	
* <b>container</b> : <b>CI</b> < <a href="#">udm.Container</a> >	The container on which this deployed runs.
Public Properties	
* <b>targetPath</b> : <b>STRING</b>	Path to which artifact must be copied to on the host.
<b>createTargetPath</b> : <b>BOOLEAN</b> = <b>false</b>	Create the targetPath on the host if it does not exist.
<b>deployable</b> : <b>CI</b> < <a href="#">udm.Deployable</a> >	The deployable that this deployed is derived from.
<b>placeholders</b> : <b>MAP_STRING_STRING</b>	A Map containing all the placeholders mapped to their values. Special values are <ignore> or <empty>
<b>targetFileName</b> : <b>STRING</b>	Name of the artifact on the host.
<b>targetPathShared</b> : <b>BOOLEAN</b> = <b>true</b>	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	
<b>targetPathSharedSubDirectories</b> : <b>BOOLEAN</b> = <b>false</b>	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	
<b>* container</b> : <code>CI&lt;udm.Container&gt;</code>	The container on which this deployed runs.
Public Properties	
<b>* targetPath</b> : <code>STRING</code>	Path to which artifact must be copied to on the host.
<b>createTargetPath</b> : <code>BOOLEAN = false</code>	Create the targetPath on the host if it does not exist.
<b>deployable</b> : <code>CI&lt;udm.Deployable&gt;</code>	The deployable that this deployed is derived from.
<b>placeholders</b> : <code>MAP_STRING_STRING</code>	A Map containing all the placeholders mapped to their values. Special values are <ignore> or <empty>
<b>targetFileName</b> : <code>STRING</code>	Name of the artifact on the host.
<b>targetPathShared</b> : <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	
<b>targetPathSharedSubDirectories</b> : <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	
<b>* container</b> : <code>CI&lt;udm.Container&gt;</code>	The container on which this deployed runs.
Public Properties	
<b>* targetPath</b> : <code>STRING</code>	Path to which artifact must be copied to on the host.
<b>createTargetPath</b> : <code>BOOLEAN = false</code>	Create the targetPath on the host if it does not exist.
<b>deployable</b> : <code>CI&lt;udm.Deployable&gt;</code>	The deployable that this deployed is derived from.
<b>placeholders</b> : <code>MAP_STRING_STRING</code>	A Map containing all the placeholders mapped to their values. Special values are <ignore> or <empty>
<b>targetFileName</b> : <code>STRING</code>	Name of the artifact on the host.
<b>targetPathShared</b> : <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	
<b>targetPathSharedSubDirectories</b> : <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**

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

The folder as deployed on the Host.

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

## file.File

<b>Type Hierarchy</b>	<code>udm.BaseDeployableFileArtifact</code> >> <code>udm.BaseDeployableArtifact</code> >> <code>udm.BaseDeployable</code> >> <code>udm.BaseConfigurationItem</code>
<b>Interfaces</b>	<code>udm.Taggable</code> , <code>udm.Deployable</code> , <code>udm.SourceArtifact</code> , <code>udm.Artifact</code> , <code>udm.DeployableArtifact</code> , <code>udm.ConfigurationItem</code> , <code>udm.FileArtifact</code>

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

Public Properties	
<b>checksum</b> : <code>STRING</code>	The checksum used to detect differences on the artifact. If not provided, it will be calculated by Deployit.
<b>createTargetPath</b> : <code>STRING</code>	Create the targetPath on the host if it does not exist.
<b>excludeFileNamesRegex</b> : <code>STRING</code>	Regular expression that matches file names that must be excluded from scanning
<b>placeholders</b> : <code>SET_OF_STRING</code>	Placeholders detected in this artifact
<b>scanPlaceholders</b> : <code>BOOLEAN</code> = <code>true</code>	Whether to scan this artifact for placeholders when it is imported
<b>tags</b> : <code>SET_OF_STRING</code>	If set, this deployable will only be mapped automatically to containers with the same tag.
<b>targetFileName</b> : <code>STRING</code>	Name of the artifact on the host.
<b>targetPath</b> : <code>STRING</code>	Path to which artifact must be copied to when being deployed.
<b>targetPathShared</b> : <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** : **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

**delimiters** : **STRING** = {{ }}

The delimiters used indicate placeholders, defaults to '{{ }}'. This is a 5 character string with a space in the middle, the first two are the leading delimiter, the last two are the closing delimiter

**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

**delimiters** : **STRING** = {{ }}

The delimiters used indicate placeholders, defaults to '{{ }}'. This is a 5 character string with a space in the middle, the first two are the leading delimiter, the last two are the closing delimiter