

Deployit File Plugin Manual

Version 3.5.0

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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 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
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

Deployable Configuration Items

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

Deployed Configuration Items

CI	Description
file.DeployedArchive	The archive as deployed on the Host
file.DeployedFile	The file as deployed on the Host
file.DeployedFolder	The folder as deployed on the Host

Topology Configuration Items

CI	Description
overthere.CifsHost	A machine that can be connected to using either WinRM or Telnet and can perform file manipulation via the CIFS protocol
overthere.LocalHost	The machine on which the Deployit Server is running on
overthere.SshHost	A machine that can be connected to using ssh

Virtual Deployed Configuration Items

CI	Description
file.DeployedArtifactOnHost	Abstract deployed that can target any DeployableArtifact to a Host

Virtual Topology Configuration Items

CI	Description
overthere.Host	A machine that runs middleware, on which scripts can be executed, etc

Configuration Item Details

file.Archive

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

Interfaces `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
placeholders : <code>SET_OF_STRING</code>
Placeholders detected in this artifact

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.DeployedArchive

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

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

The archive as deployed on the Host.

Public Properties

container* : `CI<udm.Container>`

The container on which this deployed runs.

createTargetPath* : `BOOLEAN`

Create the targetPath on the host if it does not exist.

targetPath* : `STRING`

Path to which artifact must be copied to 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.

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.

file.DeployedArtifactOnHost

Hierarchy `udm.BaseDeployedArtifact >> udm.BaseDeployed >> udm.BaseConfigurationItem`

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

Abstract deployed that can target any DeployableArtifact to a Host.

Public Properties

container* : `CI<udm.Container>`

The container on which this deployed runs.

createTargetPath* : `BOOLEAN`

Create the targetPath on the host if it does not exist.

targetPath* : `STRING`

Path to which artifact must be copied to 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.

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.

file.DeployedFile

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

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

The file as deployed on the Host.

Public Properties	
container* : <code>CI<udm.Container></code>	
The container on which this deployed runs.	
createTargetPath* : <code>BOOLEAN</code>	
Create the targetPath on the host if it does not exist.	
targetPath* : <code>STRING</code>	
Path to which artifact must be copied to 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.	
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.	

file.DeployedFolder

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

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

The folder as deployed on the Host.

Public Properties

container* : `CI<udm.Container>`

The container on which this deployed runs.

createTargetPath* : `BOOLEAN`

Create the targetPath on the host if it does not exist.

targetPath* : `STRING`

Path to which artifact must be copied to 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.

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>

Hidden Properties

targetFileName : `STRING`

Not applicable for this type.

file.File

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

Interfaces `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

placeholders : `SET_OF_STRING`

Placeholders detected in this artifact

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.Folder

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

Interfaces `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**placeholders** : SET_OF_STRING

Placeholders detected in this artifact

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

overthere.CifsHost**Hierarchy** `overthere.Host` >> `udm.BaseConfigurationItem`**Interfaces** `udm.ConfigurationItem`, `udm.Container`

A 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_HTTP, WINRM_HTTPS] = `TELNET`

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

port : INTEGER

Port on which the Telnet or WinRM server runs

temporaryDirectoryPath : STRING

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

Hidden Properties

connectionTimeoutMillis* : INTEGER = 1200000

Connection Timeout Millis

protocol* : STRING = cifs

Protocol

tmpDeleteOnDisconnect* : BOOLEAN = true

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

tmpFileCreationRetries* : INTEGER = 1000

Tmp File Creation Retries

winrmContext* : STRING = /wsman

Winrm Context

winrmEnvelopSize* : INTEGER = 153600

Winrm Envelop Size

winrmLocale* : STRING = en-US

Winrm Locale

winrmTimeout* : STRING = PT60.000S

Winrm Timeout

overthere.Host

Hierarchy udm.BaseConfigurationItem

Interfaces udm.ConfigurationItem, udm.Container

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

Public Properties

os* : ENUM [WINDOWS, UNIX]

Operating system

temporaryDirectoryPath : STRING

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

Hidden Properties

connectionTimeoutMillis* : INTEGER = 1200000

Connection Timeout Millis

protocol* : STRING

Protocol to use when connecting to this host

tmpDeleteOnDisconnect* : BOOLEAN = true

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

tmpFileCreationRetries* : INTEGER = 1000

Tmp File Creation Retries

overthere.LocalHost

Hierarchy `overthere.Host` >> `udm.BaseConfigurationItem`

Interfaces `udm.ConfigurationItem`, `udm.Container`

The machine on which the Deployit Server is running on.

Public Properties

os* : `ENUM [WINDOWS, UNIX]`

Operating system

temporaryDirectoryPath : `STRING`

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

Hidden Properties

connectionTimeoutMillis* : `INTEGER = 1200000`

Connection Timeout Millis

protocol* : `STRING = local`

Protocol

tmpDeleteOnDisconnect* : `BOOLEAN = true`

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

tmpFileCreationRetries* : `INTEGER = 1000`

Tmp File Creation Retries

overthere.SshHost

Hierarchy `overthere.Host` >> `udm.BaseConfigurationItem`

Interfaces `udm.ConfigurationItem`, `udm.Container`

A machine that can be connected to using ssh.

Public Properties

address* : *STRING*

Address of the host

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

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

temporaryDirectoryPath : *STRING*

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

Hidden Properties

allocateDefaultPty* : *BOOLEAN = true*

Allocate Default Pty

connectionTimeoutMillis* : *INTEGER = 1200000*

Connection Timeout Millis

protocol* : *STRING = ssh*

Protocol

sudoPasswordPromptRegex* : *STRING = .*[Pp]assword.**

Sudo Password Prompt Regex

tmpDeleteOnDisconnect* : *BOOLEAN = true*

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

tmpFileCreationRetries* : *INTEGER = 1000*

Tmp File Creation Retries