

Deployit File Plugin Manual

Version 3.7.4

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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 	<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

	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
overthere.SshJumpstation	A machine that can be used to create a tunneled connection to the destination host

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
overthere.Jumpstation	Base class for jumpstations

Configuration Item Details

file.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

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

Public Properties
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**

Scan Placeholders

tags : **SET_OF_STRING**

The tags to map deployables to containers.

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

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.

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.

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.

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.

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 : **CI<udm.Container>**

The container on which this deployed runs.

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.

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.

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>

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

targetFileName : **STRING**

Not applicable for this type.

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

Public Properties	
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
Scan Placeholders	
tags :	SET_OF_STRING
The tags to map deployables to containers.	
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.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 folder artifact that can be packaged in a Deployment Package

Public Properties	
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
Scan Placeholders	
tags :	SET_OF_STRING
The tags to map deployables to containers.	
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	

overthere.CifsHost

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

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

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	
deploymentGroup	: INTEGER
The deployment group of this container.	
jumpstation	: CI<overthere.Jumpstation>
If this host is not directly reachable, specify a jumpstation here which can be used to reach this host.	
port	: INTEGER
Port on which the Telnet or WinRM server runs	
tags	: SET_OF_STRING
The tags to map deployables to containers.	
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	
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	
tmpDeleteOnDisconnect	: BOOLEAN = true
Whether to delete the temporary connection directory when the connection is closed	

Control Tasks	
checkConnection	
Check connection	

overthere.Host

Hierarchy udm.BaseContainer >> udm.BaseConfigurationItem

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

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

Public Properties	
os	: ENUM [WINDOWS, UNIX]
Operating system	
deploymentGroup	: INTEGER

The deployment group of this container.
jumpstation : CI<overthere.Jumpstation>
If this host is not directly reachable, specify a jumpstation here which can be used to reach this host.
tags : SET_OF_STRING
The tags to map deployables to containers.
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
tmpFileCreationRetries : INTEGER = 1000
Tmp File Creation Retries
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
deploymentGroup : INTEGER
The deployment group of this container.
jumpstation : CI<overthere.Jumpstation>
If this host is not directly reachable, specify a jumpstation here which can be used to reach this host.
tags : SET_OF_STRING
The tags to map deployables to containers.

Hidden Properties
connectionTimeoutMillis : INTEGER = 1200000
Connection Timeout Millis
os : ENUM [WINDOWS, UNIX] = UNIX
Os
protocol : STRING
Protocol to use when connecting to this host
tmpFileCreationRetries : INTEGER = 1000
Tmp File Creation Retries
temporaryDirectoryPath : STRING
Temporary Directory Path
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](#)

The machine on which the Deployit Server is running on.

Public Properties	
os : ENUM [WINDOWS, UNIX]	Operating system
deploymentGroup : INTEGER	The deployment group of this container.
jumpstation : CI <overthere.Jumpstation>	If this host is not directly reachable, specify a jumpstation here which can be used to reach this host.
tags : SET_OF_STRING	The tags to map deployables to containers.
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
tmpFileCreationRetries : INTEGER = 1000	Tmp File Creation Retries
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](#)

A 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
deploymentGroup : INTEGER	The deployment group of this container.
jumpstation : CI <overthere.Jumpstation>	If this host is not directly reachable, specify a jumpstation here which can 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	

The tags to map deployables to containers.

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

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

Tmp File Creation Retries

allocateDefaultPty : **BOOLEAN** = false

If true, a default pty is allocated when executing a command. All sudo implementations require it for interactive sudo, some even require it for normal sudo. Some SSH server implementations (notably the one on AIX 5.3) crash when it is allocated.

sudoOverrideUmask : **BOOLEAN** = false

If true, permissions are explicitly changed with chmod -R go+rX after uploading a file or directory with scp.

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](#)

A machine that can be used to create a tunneled connection to the 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

deploymentGroup : **INTEGER**

The deployment group of this container.

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

If this host is not directly reachable, specify a jumpstation here which can 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**

The tags to map deployables to containers.

Hidden Properties**connectionTimeoutMillis** : INTEGER = 1200000

Connection Timeout Millis

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

protocol : STRING = ssh

Protocol to use when connecting to this host

tmpFileCreationRetries : INTEGER = 1000

Tmp File Creation Retries

temporaryDirectoryPath : STRING

Temporary Directory Path

tmpDeleteOnDisconnect : BOOLEAN = true

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

Control Tasks**checkConnection**

Check connection