

Deployit File Plugin Manual

Version 3.7.0

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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 |
| 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.HostContainer | |
| 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 = <i>false</i> | |
| 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 = <i>true</i> | |
| 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

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.Tagable, 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

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.HostContainer

null

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](#)>

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

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

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

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