

Deployit Remoting Plugin Manual

Version 3.9.0

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Preface

This document describes the functionality provided by the Remoting plugin.

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

Overview

The Remoting plugin is a Deployit plugin that allows Deployit to manipulate files and execute commands on remote hosts. It does so by using the **Overthere** framework.

Overthere is a Java library to manipulate files and execute processes on remote hosts, i.e. do stuff "over there". See the [Overthere repository](#) for more information.

Features

- Define remote host CIs to use as deployment targets.
- Define jump stations to connect to remote hosts.

Requirements

- **Deployit requirements**
 - **Deployit:** version 3.5+
 - **Other Deployit Plugins:** None

Examples

Connecting through a tunnel

When Deployit cannot reach a Host directly, but that Host can only be reached through an SSH tunnel, you need to create a so-called Jumpstation Host. This can be set up as follows:

1. Two Infrastructure items need to be created, ie. the target `overthere.Host` and the `overthere.SshJumpstation` that will actually be used to connect to the target machine.
2. Once these are created, they can be hooked up to eachother, by pointing the `jumpstation` property of the target machine to the created `overthere.Jumpstation`.

Once Deployit starts a deployment to the target host, it will see that it needs to connect through the jumpstation, and will first open a connection to that machine, and then setup a dynamic ssh tunnel to the target machine.

Exposing more Overthere properties in Deployit

Most of the Overthere connection properties defined in the Overthere documentation are available as regular properties or hidden properties on the `overthere.SshHost` and `overthere.CifsHost` types. If you need access to any additional properties, you can create a type-modification in the `ext/synthetic.xml` file like this:

```
<type-modification type="overthere.SshHost">
  <property name="listFilesCommand" hidden="true" default="/bin/ls -al {0}" />
  <property name="getFileInfoCommand" hidden="true" default="/bin/ls -ld {0}" />
</type-modification>
```

CI Reference

Configuration Item Overview

Containers

CI	Description
overthere.CifsHost	Machine that can be connected to using either WinRM or Telnet and can perform file manipulation via the CIFS protocol
overthere.Host	Machine that runs middleware, on which scripts can be executed, etc
overthere.Jumpstation	Base class for jumpstations
overthere.LocalHost	Machine on which the Deployit Server is running
overthere.RemoteHost	Description unavailable
overthere.SshHost	Machine that can be connected to using SSH
overthere.SshJumpstation	Machine that can be used to create a tunneled connection to a destination host

Other Configuration Items

CI	Description
overthere.CifsHost	Machine that can be connected to using either WinRM or Telnet and can perform file manipulation via the CIFS protocol
overthere.Host	Machine that runs middleware, on which scripts can be executed, etc
overthere.Jumpstation	Base class for jumpstations
overthere.LocalHost	Machine on which the Deployit Server is running
overthere.RemoteHost	Description unavailable
overthere.SshHost	Machine that can be connected to using SSH
overthere.SshJumpstation	Machine that can be used to create a tunneled connection to a destination host

Configuration Item Details

overthere.CifsHost

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

Interfaces udm.Taggable, udm.ConfigurationItem, udm.Container, overthere.HostContainer

Machine that can be connected to using either WinRM or Telnet and can perform file manipulation via the CIFS protocol

Hidden Properties			
* connectionTimeoutMillis	: INTEGER = 1200000		Number of milliseconds Overthere waits for a connection to a remote host to be established
* protocol	: STRING = cifs		Protocol
* tmpFileCreationRetries	: INTEGER = 1000		Number of times Overthere attempts to create a temporary file with a unique name
* winrmContext	: STRING = /wsman		Context used by the WinRM server
* winrmEnvelopSize	: INTEGER = 153600		Envelop size for WinRM messages
* winrmHttpsCertificateTrustStrategy	: ENUM [STRICT, SELF_SIGNED, ALLOW_ALL] = STRICT		HTTPS certificate trust strategy for WinRM over HTTPS
* winrmHttpsHostnameVerificationStrategy	: ENUM [STRICT, BROWSER_COMPATIBLE, ALLOW_ALL] = STRICT		HTTPS host name verification strategy for WinRM over HTTPS
* winrmLocale	: STRING = en-US		Locale to use for WinRM messages
* winrmTimeout	: STRING = PT60.000S		Timeout to use for WinRM messages in XML schema duration format
tmpDeleteOnDisconnect	: BOOLEAN = true		Whether to delete the temporary connection directory when the connection is closed
winrmKerberosAddPortToSpn	: BOOLEAN = false		Add the port number (e.g. 5985) to the service principal name (SPN) for which a Kerberos ticket is requested
winrmKerberosDebug	: BOOLEAN = false		Enable Kerberos debug messages
winrmKerberosUseHttpSpn	: BOOLEAN = false		Use the HTTP protocol in the service principal name (SPN) for which a Kerberos ticket is requested, instead of the default WSMAN protocol
Control task	Parameter CI	Attributes	Description
checkConnection			Checks whether Deployit can transfer files to and execute commands on this host.

overthere.Host

Virtual Type

Type Hierarchy udm.BaseContainer >> udm.BaseConfigurationItem

Interfaces udm.Taggable, udm.ConfigurationItem, udm.Container, overthere.HostContainer

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

Public Properties			
* os	: ENUM [WINDOWS, UNIX]		Operating system the host runs
tags	: SET_OF_STRING		If set, only deployables with the same tag will be automatically mapped to this container.
temporaryDirectoryPath	: STRING		Directory into which temporary files are stored. Will be cleaned up when the connection is closed.
Hidden Properties			
* protocol	: STRING		Protocol to use when connecting to this host
* tmpFileCreationRetries	: INTEGER = 1000		Number of times Overthere attempts to create a temporary file with a unique name
tmpDeleteOnDisconnect	: BOOLEAN = true		Whether to delete the temporary connection directory when the connection is closed
Control task	Parameter CI	Attributes	Description
checkConnection			Checks whether Deployit can transfer files to and execute commands on this host.

overthere.Jumpstation**Virtual Type**

Type Hierarchy [overthere.RemoteHost](#) >> [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 >		Jumpstation that should be used to reach this host
tags	: SET_OF_STRING		If set, only deployables with the same tag will be automatically mapped to this container.
Hidden Properties			
* connectionTimeoutMillis	: INTEGER = 1200000		Number of milliseconds Overthere waits for a connection to a remote host to be established
* os	: ENUM [WINDOWS , UNIX] = UNIX		Os
* protocol	: STRING		Protocol to use when connecting to this host
* tmpFileCreationRetries	: INTEGER = 1000		Number of times Overthere attempts to create a temporary file with a unique name
temporaryDirectoryPath	: STRING		The default platform value (/tmp) suffices as no temporary files will be placed on the jumpstation
tmpDeleteOnDisconnect	: BOOLEAN = true		Whether to delete the temporary connection directory when the connection is closed
Control task	Parameter CI	Attributes	Description
checkConnection			Checks whether Deployit can transfer files to and execute commands on this host.

overthere.LocalHost

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

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

Machine on which the Deployit Server is running

Public Properties			
* os	: ENUM [WINDOWS , UNIX]		Operating system the host runs
tags	: SET_OF_STRING		If set, only deployables with the same tag will be automatically mapped to this container.
temporaryDirectoryPath	: STRING		Directory into which temporary files are stored. Will be cleaned up when the connection is closed.
Hidden Properties			
* protocol	: STRING = local		Protocol
* tmpFileCreationRetries	: INTEGER = 1000		Number of times Overthere attempts to create a temporary file with a unique name
tmpDeleteOnDisconnect	: BOOLEAN = true		Whether to delete the temporary connection directory when the connection is closed
Control task	Parameter CI	Attributes	Description
checkConnection			Checks whether Deployit can transfer files to and execute commands on this host.

overthere.RemoteHost

Virtual Type**Type Hierarchy** [overthere.Host](#) >> [udm.BaseContainer](#) >> [udm.BaseConfigurationItem](#)**Interfaces** [udm.Taggable](#), [udm.ConfigurationItem](#), [udm.Container](#), [overthere.HostContainer](#)

Description unavailable

Public Properties			
* os	: ENUM [WINDOWS, UNIX]		Operating system the host runs
jumpstation	: CI < overthere.Jumpstation >		Jumpstation that should be used to reach this host
tags	: SET_OF_STRING		If set, only deployables with the same tag will be automatically mapped to this container.
temporaryDirectoryPath	: STRING		Directory into which temporary files are stored. Will be cleaned up when the connection is closed.
Hidden Properties			
* connectionTimeoutMillis	: INTEGER = 1200000		Number of milliseconds Overthere waits for a connection to a remote host to be established
* protocol	: STRING		Protocol to use when connecting to this host
* tmpFileCreationRetries	: INTEGER = 1000		Number of times Overthere attempts to create a temporary file with a unique name
tmpDeleteOnDisconnect	: BOOLEAN = true		Whether to delete the temporary connection directory when the connection is closed
Control task	Parameter CI	Attributes	Description
checkConnection			Checks whether Deployit can transfer files to and execute commands on this host.

overthere.SshHost**Type Hierarchy** [overthere.RemoteHost](#) >> [overthere.Host](#) >> [udm.BaseContainer](#) >> [udm.BaseConfigurationItem](#)**Interfaces** [udm.Taggable](#), [udm.ConfigurationItem](#), [udm.Container](#), [overthere.HostContainer](#)

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 the host runs
* port : INTEGER = 22	Port on which the SSH server runs
* username : STRING	Username to connect with
jumpstation : CI<overthere.Jumpstation >	Jumpstation that should 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	If set, only deployables with the same tag will be automatically mapped to this container.
temporaryDirectoryPath : STRING	Directory into which temporary files are stored. Will be cleaned up when the connection is closed.
Hidden Properties	
* connectionTimeoutMillis : INTEGER = 1200000	Number of milliseconds Overthere waits for a connection to a remote host to be established
* interactiveKeyboardAuthRegex : STRING = <code>.*Password:[]?</code>	Regular expression to look for in keyboard-interactive authentication before sending the password
* protocol : STRING = <code>ssh</code>	Protocol
* sudoCommandPrefix : STRING = <code>sudo -u {0}</code>	Sudo command to prefix to the original command. The placeholder {0} is replaced with the sudoUsername
* sudoPasswordPromptRegex : STRING = <code>.*[Pp]assword.*:</code>	Regular expression to look for in interactive sudo before sending the password
* tmpFileCreationRetries : INTEGER = 1000	Number of times Overthere attempts to create a temporary file with a unique name
allocateDefaultPty : BOOLEAN = <code>false</code>	If true, a default PTY (dummy:80:24:0:0) is allocated when executing a command
allocatePty : STRING	Specification for the PTY to be allocated when executing a command. The format is TERM:COLS:ROWS:WIDTH:HEIGHT, e.g. xterm:80:24:0:0
sudoOverrideUmask : BOOLEAN = <code>true</code>	If true, permissions are explicitly changed with <code>chmod -R go+rX</code> after uploading a file or directory
sudoPreserveAttributesOnCopyFromTempFile : BOOLEAN = <code>true</code>	If true, files are copied from the connection temporary directory using the <code>-p</code> flag to the <code>cp</code> command
sudoPreserveAttributesOnCopyToTempFile : BOOLEAN = <code>true</code>	If true, files are copied to the connection temporary directory using the <code>-p</code> flag to the <code>cp</code> command
sudoQuoteCommand : BOOLEAN = <code>false</code>	If true, the original command is quoted when it is prefixed with <code>sudoCommandPrefix</code>
tmpDeleteOnDisconnect : BOOLEAN = <code>true</code>	Whether to delete the temporary connection directory when the connection is closed

Control task	Parameter CI	Attributes	Description
checkConnection			Checks whether Deployit can transfer files to and execute commands on this host.

overthere.SshJumpstation

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

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

Machine that can be used to create a tunneled connection to a 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 >		Jumpstation that should 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		If set, only deployables with the same tag will be automatically mapped to this container.
Hidden Properties			
* connectionTimeoutMillis :	INTEGER = 1200000		Number of milliseconds Overthere waits for a connection to a remote host to be established
* 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
* portAllocationRangeStart :	INTEGER = 1025		Port from where to start looking for freely available ports to use as the local part of an SSH port forward
* protocol :	STRING = ssh		Protocol
* tmpFileCreationRetries :	INTEGER = 1000		Number of times Overthere attempts to create a temporary file with a unique name
temporaryDirectoryPath :	STRING		The default platform value (/tmp) suffices as no temporary files will be placed on the jumpstation
tmpDeleteOnDisconnect :	BOOLEAN = true		Whether to delete the temporary connection directory when the connection is closed
Control task	Parameter CI	Attributes	Description
checkConnection			Checks whether Deployit can transfer files to and execute commands on this host.