SFTP



This page explains the URL Adapter in Bridge context. If you were looking for the same information regarding the PAS Designer, refer to URL Adapter in the Designer guide.

Using the SFTP (not to be confused with FTPS) protocol (see also http://en.wikipedia.org/wiki /SSH_File_Transfer_Protocol) is very similar to FTP but there are some differences, most notable the options. If SFTP is used with private and/or public keys, the tagged value options on the deployment dependency must contain a string such as

CURLOPT_SSH_PRIVATE_KEYFILE=../resource/myPrivateKey CURLOPT_SSH_PUBLIC_KEYFILE=../resource/myPublicKey

Using the key pair myPrivateKey and myPublicKey allows you to access the server without having to authenticate the client (your E2E Bridge Service). The key files are uploaded to the resource repository using the E2E Bridge to upload mechanism. The key files are saved into the shared resources directory of the deployed service configuration.

The private and public key files must have the OpenSSH format. If you use puttygen to generate keys, the OpenSSH keys must get extracted because puttygen stores private and public keys into one file. A description how to do this can be found in the PuTTY User Manual.

Other supported SFTP options are:

Option	Description
CURLOPT_SS H_AUTH_TYP ES	Pass one of the following literals: CURLSSH_AUTH_PUBLICKEY CURLSSH_AUTH_PASSWORD CURLSSH_AUTH_HOST CURLSSH_AUTH_KEYBOARD Set CURLSSH_AUTH_ANY to let the Bridge pick one. This is also the default.
CURLOPT_SS H_HOST_PUB LIC_KEY_MD5	Pass a String of 32 hexadecimal digits. The string should be the 128 bit MD5 checksum of the remote host's public key. The Bridge will reject the connection to the host unless the md5 sums match. This option refers only for scp and sftp transfers.
CURLOPT_KE YPASSWD	Password protecting the private key file

Compared to FTP and FTPS, SFTP uses different commands. The following shows an extract of possible quote commands SFTP uses:

Command	Description
chgrp <group file></group 	The chgrp command sets the group ID of the file named by the file operand to the group ID specified by the group operand. The group operand is a decimal integer group ID.
chmod <mode file></mode 	The chmod command modifies the file mode bits of the specified file. The mode operand is an octal integer mode number.
chown <user file></user 	The chown command sets the owner of the file named by the file operand to the user ID specified by the user operand. The user operand is a decimal integer user ID.
<pre>ln <source file=""/> <target file=""></target></pre>	The \ln and $symlink$ commands create a symbolic link at the target file location pointing to the source file location.
mkdir <directory name></directory 	The mkdir command creates the directory named by the directory name operand.
pwd	The pwd command returns the absolute path name of the current working directory.

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Related Pages:

- FTPS
- Setting cURL Options on the URL Adapter
- URL Adapter Reference

rename <source target></source 	The rename command renames the file or directory named by the source operand to the destination path named by the target operand.	
rm <file></file>	The rm command removes the file specified by the file operand.	
rmdir The rmdir command removes the directory entry specified by the directory operand, provided it is empty.		

You can find a complete list of supported commands on the cURL haxx site.

Tagged Values

Find below a list of relevant tagged values, if the URL adapter is used with the SFTP protocol. Default values used when an option is not explicitly set are written in bold.

Tagged Value	Description	Values	
protocol	Transport protocol.	sftp	
method	SFTP method. get, put,		
port	Machine port number the service is binding to. This port number can be given at service level only.		
path	SFTP path for the SOAP request.		
Advanced			
options	Native cURL options.	cURL Options	
Authentication			
user	Username/password.		
Proxy			
proxyType	Type of the proxy.	HTTP, SOCKS5	
proxyURL	URL of the proxy server.		
proxyUser	Proxy user.		

SFTP Troubleshooting

Error	Possible Reason	Solution
Upload failed, error message: Operation failed (4/- 31)	The path is not correct.	In SFTP, the path has to be set absolutely or using the tilde (~) for the user home path, e.g. $/\sim/myPath/myfile$