Windows PowerShell Get-Help on Cmdlet 'Invoke-SSHStreamExpectSecureAction'

PS:\>Get-HELP Invoke-SSHStreamExpectSecureAction -Full

NAME

Invoke-SSHStreamExpectSecureAction

SYNOPSIS

Executes an action stored in a SecureString on a SSH ShellStream when output matches a desired string.

SYNTAX

Invoke-SSHStreamExpectSecureAction [-ShellStream] <ShellStream> [-Command] <String> [-ExpectString] <String> [-SecureAction] <SecureString> [[-TimeOut] <Int32>]

[<CommonParameters>]

Invoke-SSHStreamExpectSecureAction [-ShellStream] <ShellStream> [-Command] <String> [-ExpectRegex] <Regex> [-SecureAction] <SecureString> [[-TimeOut] <Int32>]

[<CommonParameters>]

DESCRIPTION

Executes an action stored in a secure string when an output is matched. By the expect action being in a secure string this function is best used when a password must

be provided to a promp protecting it in memory. Examples uses would be for use in su or sudo commands.

PARAMETERS

-ShellStream <ShellStream>

SSH Shell Stream.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? false

-Command <String>

Initial command that will generate the output to be evaluated by the expect pattern.

Required? true

Position? 1

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ExpectString <String>

String on what to trigger the action on.

Required? true

Position? 2

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SecureAction <SecureString>

SecureString representation of action once an expression is matched.

Required? true

Position? 3

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TimeOut <Int32>

Number of seconds to wait for a match.

Required? false

Position? 4

Default value 10

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ExpectRegex <Regex>

Regular expression on what to trigger the action on.

Required? true

Position? 2

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

ErrorAction, ErrorVariable, WarningAction, WarningVariable,

OutBuffer, PipelineVariable, and OutVariable. For more information, see

about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

Renci.SshNet.ShellStream

System.String

System.Security.SecureString

System.Int32

System.Text.RegularExpressions.Regex

OUTPUTS

System.Boolean

NOTES

---------- EXAMPLE 1 ----------

Invoke-SSHStreamExpectSecureAction -ShellStream $stream -Command 'su -' -ExpectString 'Passord:' -SecureAction (read-host -AsSecureString) -Verbose

****

VERBOSE: Executing command su -.

VERBOSE: Waiting for match.

VERBOSE: Executing action.

VERBOSE: Action has been executed.

True

PS C:\> $stream.Read()

Last login: Sat Mar 14 18:18:52 EDT 2015 on pts/0

Last failed login: Sun Mar 15 08:52:07 EDT 2015 on pts/0

There were 2 failed login attempts since the last successful login.

[root@localhost ~]#

---------- EXAMPLE 2 ----------

$sudoPassPropmp = [regex]':\s$'

PS C:\> Invoke-SSHStreamExpectSecureAction -ShellStream $stream -Command 'sudo ifconfig' -ExpectRege

x $sudoPassPropmp -SecureAction (read-host -AsSecureString) -Verbose

****

VERBOSE: Executing command sudo ifconfig.

VERBOSE: Waiting for match.

VERBOSE: Matching by RegEx.

VERBOSE: Executing action.

VERBOSE: Action has been executed.

True

PS C:\> $stream.Read()

[sudo] password for admin:

ens192: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 192.168.1.180 netmask 255.255.240.0 broadcast 192.168.15.255

inet6 fe80::20c:29ff:feeb:34a0 prefixlen 64 scopeid 0x20<link>

ether 00:0c:29:eb:34:a0 txqueuelen 1000 (Ethernet)

RX packets 300644 bytes 175076049 (166.9 MiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 139657 bytes 56363667 (53.7 MiB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```
lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 0  (Local Loopback)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

[admin@localhost ~]$
```

RELATED LINKS

Online Version: https://github.com/darkoperator/Posh-SSH/tree/master/docs