PANOS PS Module Help

# New-PANOSConnection

## Synopsis

Creates an object which contains the necessary information for establishing a connection to a PAN-OS firewall. Most Cmdlets in this module require this object to do their work.

# Detailed Description

The New-PANOSConnection Cmdlet creates an object that represents a connection to a PANOS firewall, and includes properties like: hostname, vsys and access token. Practically all Cmdlets in this module have a mandatory parameter called Connection, which takes the object produced by New-PANOSConnection Cmdlet. Since Connection objects stores API Access Token, care must be taken when storing these objects, see the second example which demonstrates the use of Export-Clixml to securely store the Connection object to a file.

## Parameters

|  |  |
| --- | --- |
| HostName | Firewall’s network name as it appears in the subject field of the SSL certificate installed on the firewall. |
| AccessToken | XML API Access Token. See PAN-OS 6.1 XML API Reference (section 2.1 – Key Generation) for details on how to generate such token. |
| Vsys | Name of the Vsys to which the connection is bound. If you need to execute commands against multiple Vsys then you will need to create a separate Connection object – one per Vsys. |

## Examples

### Example 1

This example shows how to build a connection object and pass it to another Cmdlet.

Note that the API token has to be converted to SecureString, which is then passed to the New-PANOSConnection Cmdlet.

$accessToken = ConvertTo-SecureString "LUFRPT01b…W6K1BqZ0J1WXJxTGU2b3ptV2tuSllBcFdKYz0=" -AsPlainText -Force

$connection = New-PANOSConnection -HostName 'pa.corp.com' -Vsys 'vsys1' -AccessToken $accessToken

Get-PANOSAddress -Name 'dc01' -FromCandidateConfig -Connection $connection

### Example 2

This example shows how to securely store the API token.

The first Cmdlet converts the API token to SecureString and passes the output to Export-Clixml Cmdlet which de-serializes SecureString to disk and encrypts the file using DPAPI. Note, only the user that executed this command will be able to decrypt this file. The advantage of this approach is that once the Connection object is stored in the encrypted form on disk you no longer need to supply the Access Token in clear text.

ConvertTo-SecureString "LUFRPT01b…W6K1BqZ0J1WXJxTGU2b3ptV2tuSllBcFdKYz0=" -AsPlainText -Force | Export-Clixml C:\PSScripts\panosAccessToken

$connection = New-PANOSConnection -HostName 'pa.corp.com' -Vsys 'vsys1' -AccessToken (Import-CliXml c:\PSScripts\panosAccessToken)

Get-PANOSAddress -Name 'dc01' -FromCandidateConfig -Connection $connection