

Powershell Scripts using Check Point API PoC

Introduction

The 3 scripts that are made available here are

[CPAPI-Authenticate.ps1](#)

[CPAPI-Show-Hosts.ps1](#)

[CPAPI-Add-Host.ps1](#)

They are meant to serve as proof of concept for building a modular library of such scripts, with an eye towards creating a Powershell module that will allow users to manage Check Point deployments from Microsoft Powershell, in a fashion similar to the Azure and AWS modules.

CPAPI-Authenticate.ps1 is a self-standing script for authenticating users and getting from the management server the security id that allows users to authenticate when using the API. The other scripts each hit a different API, and use the token and server objects created by the Authentication script, in the construction of the requests they create. The 2 scripts invoke the authentication script if they fail to find valid objects.

CP-Authenticate.ps1

```
PS C:\Users\lebowits\Documents\GitHub\powershellscripts> Get-Help  
.\CPAPI-Authenticate.ps1
```

NAME

C:\Users\lebowits\Documents\GitHub\powershellscripts\CPAPI-Authenticate.ps1

SYNOPSIS

This Powershell script takes user credentials and Management server address as input, and, if authentication succeeds, it leaves behind \$myCPHeader and \$mySmartCenterAddress as global objects.

The script also outputs the contents of the reply from the server, if authentication succeeds.

SYNTAX

```
C:\Users\lebowits\Documents\GitHub\powershellscripts\CPAPI-Authenticate.ps1 [-username] <String> [[-ClearTextPassword] <String>]  
[-mySmartCenterAddress] <String> [[-DomainName] <String>]  
[<CommonParameters>]
```

DESCRIPTION

The script allows users to authenticate themselves to some specific Check Point SmartCenter or Domain.

Users can enter parameters (username, password, domain, server address) in advance or interactively, when running the scripts.

If Authenthe script leaves behind in the shell environment two objects, \$myCPHeader and \$mySmartCenterAddress, that can be used to create additional calls to the APIs.

RELATED LINKS

<https://github.com/jlebowitsch/powershellscripts>

CPAPI-Add-Host.ps1

```
PS C:\Users\lebowits\Documents\GitHub\powershellscripts> Get-Help  
. \CPAPI-Add-Host.ps1
```

NAME

C:\Users\lebowits\Documents\GitHub\powershellscripts\CPAPI-Add-Host.ps1

SYNOPSIS

This Powershell script adds hosts to the SmartCenter database.

SYNTAX

```
C:\Users\lebowits\Documents\GitHub\powershellscripts\CPAPI-Add-Host.ps1 [-hostname] <String> [-hostIPAddress] <String> [[-NATSettings] <String>] [[-autorule] <String>] [[-NATIPv4Address] <String>] [[-NATIPv6Address] <String>] [[-HideBehind] <String>] [[-Installon] <String>] [[-Method] <String>] [<CommonParameters>]
```

DESCRIPTION

This script adds a single host to SmartCenter. Unless the user enters the parameters to the call itself, it prompts the user to add a host name and host IP address.

The script first tries to use shell objects to send a keepalive to the management server.

If that fails, the CPAPI-Authenticate is invoked and the user is prompted to enter his credentials and the smartcenter details.

If NAT settings need to be added, use them as parameters in the command line themselves (try typing "-" after the script name.

you'll need to add "true" to NATSettings and then all the required information)

RELATED LINKS

<https://github.com/jlebowitsch/powershellscripts>

<https://sc1.checkpoint.com/documents/R80/APIs/?#cli/add-host>

CPAPI-Show-Hosts.ps1

```
PS C:\Users\lebowits\Documents\GitHub\powershellscripts> get-help .\CPAPI-Show-Hosts.ps1
```

```
CPAPI-Show-Hosts.ps1 [[-limit] <int>] [[-offset] <int>] [[-order] <string>] [[-details_level] <string>] [<CommonParameters>]
```

```
PS C:\Users\lebowits\Documents\GitHub\powershellscripts> get-help .\CPAPI-Show-Hosts.ps1
```

NAME

C:\Users\lebowits\Documents\GitHub\powershellscripts\CPAPI-Show-Hosts.ps1

SYNOPSIS

This Powershell Script retrieves the list of hosts from the SmartCenter database.

SYNTAX

```
C:\Users\lebowits\Documents\GitHub\powershellscripts\CPAPI-Show-Hosts.ps1 [[-limit] <Int32>] [[-offset] <Int32>] [[-order] <String>] [[-details_level] <String>] [<CommonParameters>]
```

DESCRIPTION

this Script uses the get-hosts API to retrieve hosts from Smartcenter. It creates two global objects, myCPHostsObjeecs and myCPHostsjson, the first is a hashtable of the hosts, and the other is a json of the same.
it exposes the parameters of the API as optional.

RELATED LINKS

<https://github.com/jlebowitsch/powershellscripts>

<https://sc1.checkpoint.com/documents/R80/APIs/?#web/show-hosts>