Windows PowerShell Get-Help on Cmdlet 'Enable-WSManCredSSP'

PS:\>Get-HELP Enable-WSManCredSSP -Full

NAME

Enable-WSManCredSSP

SYNOPSIS

Enables Credential Security Support Provider (CredSSP) authentication on a computer.

SYNTAX

Enable-WSManCredSSP [-Role] {Client | Server} [[-DelegateComputer] <System.String[]>] [-Force] [<CommonParameters>]

DESCRIPTION

The `Enable-WSManCredSSP` cmdlet enables CredSSP authentication on a client or on a server computer. When CredSSP authentication is used, the user credentials are

passed to a remote computer to be authenticated. This type of authentication is designed for commands that create a remote session from another remote session. For

example, if you want to run a background job on a remote computer, use this kind of authentication.

`Enable-WSManCredSSP` can enable CredSSP on a Client or a Server . To enable CredSSP on a client, specify Client

in the Role parameter. Clients delegate explicit

credentials to a server when server authentication is achieved. To enable CredSSP on a server, specify Server in the Role parameter. A server acts as a delegate for

clients. For more details, see Role in the Parameters section.

> [!CAUTION] > CredSSP authentication delegates the user credentials from the local computer to a remote > computer. This practice increases the security risk of the

remote operation. If the remote > computer is compromised, when credentials are passed to it, the credentials can be used to control > the network session.

PARAMETERS

-DelegateComputer <System.String[]>

Specifies servers to which client credentials are delegated. The best practice is to use fully qualified domain names.

Wildcards are accepted, but can enable CredSSP on more computers than necessary.

If the Role parameter is Client , you must specify this parameter. If Role is Server , don't specify this parameter.

Required? false

Position? 1

Default value None

Accept pipeline input? False

Accept wildcard characters? true

-Force <System.Management.Automation.SwitchParameter>

Forces the command to run without asking for user confirmation.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Role <System.String>

Specifies whether to enable CredSSP as a client or as a server. The acceptable values for this parameter are: Client and Server .

If you specify Client , the following actions are performed. These settings allow the client to delegate explicit credentials to a server when server

authentication is achieved.

- Enables CredSSP on the client.

- Sets the WS-Management setting `<localhost|computername>\Client\Auth\CredSSP` to true.

- Sets the Windows CredSSP policy AllowFreshCredentials to WSMan/Delegate on the client.

If you specify Server , the following actions are performed. This policy setting allows the server to act as a delegate for clients.

- Enables CredSSP on the server.

- Sets the WS-Management setting `<localhost|computername>\Service\Auth\CredSSP` to true.

Required? true

Position? 0

Default value None

Accept pipeline input? False

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

None

You can't pipe objects to this cmdlet.

OUTPUTS

System.Xml.XmlElement

If CredSSP authentication is successfully enabled, this cmdlet returns an XMLElement object.

NOTES

To disable CredSSP authentication, use the `Disable-WSManCredSSP` cmdlet.

---------- Example 1: Delegate client credentials ----------

```
Enable-WSManCredSSP -Role "Client" -DelegateComputer "Server02.fabrikam.com"

cfg        : http://schemas.microsoft.com/wbem/wsman/1/config/client/auth
lang       : en-US
Basic      : true
Digest     : true
Kerberos   : true
Negotiate  : true
Certificate : true
CredSSP    : true
```

Example 2: Delegate client credentials to all computers in a domain

```
Enable-WSManCredSSP -Role "Client" -DelegateComputer "*.fabrikam.com"
```

cfg : http://schemas.microsoft.com/wbem/wsman/1/config/client/auth

lang : en-US

Basic : true

Digest : true

Kerberos : true

Negotiate : true

Certificate : true

CredSSP : true

- Example 3: Delegate client credentials to multiple computers -

$servers = "server02.fabrikam.com", "server03.fabrikam.com", "server04.fabrikam.com"

Enable-WSManCredSSP -Role "Client" -DelegateComputer $servers

cfg : http://schemas.microsoft.com/wbem/wsman/1/config/client/auth

lang : en-US

Basic : true

Digest : true

Kerberos : true

Negotiate : true

Certificate : true

CredSSP : true

The `$servers` variable contains a list of server names. `Enable-WSManCredSSP` uses the Role parameter to specify the Client role. The DelegateComputer gets the

computer names from the `$servers` variable.

------- Example 4: Allow a computer to act as a delegate -------

Enable-WSManCredSSP -Role "Server"

Example 5: Allow a computer to act as a delegate by using Set-Item

```
Connect-WSMan -ComputerName "server02"
Set-Item -Path "WSMan:\server02\service\auth\credSSP" -Value $True
```

`Connect-WSMan` creates a connection to the remote computer, server02. `Set-Item` uses the Path parameter to specify the WSMan provider's location. The Value
parameter sets the Service setting to true.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/microsoft.wsman.management/enable-wsmancredssp?view=powershell-5.1&WT.mc_id=ps-gethelp

Connect-WSMan

Disable-WSManCredSSP

Disconnect-WSMan

Get-WSManCredSSP

Get-WSManInstance

Invoke-WSManAction

New-WSManInstance

New-WSManSessionOption

Remove-WSManInstance

Set-WSManInstance

Set-WSManQuickConfig

Test-WSMan