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PowerShell

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PowerShell Get-Help on command 'Enable-WSManCredSSP'

PS C:\Users\wahid> Get-Help Enable-WSManCredSSP

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.

-Force <System.Management.Automation.SwitchParameter>

Forces the command to run without asking for user confirmation.

-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.

<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>).

----- 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`.

REMARKS

To see the examples, type: `"get-help Enable-WSManCredSSP -examples"`.

For more information, type: `"get-help Enable-WSManCredSSP -detailed"`.

For technical information, type: `"get-help Enable-WSManCredSSP -full"`.

For online help, type: `"get-help Enable-WSManCredSSP -online"`