



PowerShell Cmdlets for Cisco IMC Management Pack

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Overview of Cisco IMC PowerShell Cmdlets

Cisco IMC management pack supports the use of cmdlets which can be imported from a PowerShell module. These cmdlets are used to perform actions, such as adding a new Cisco IMC server group to the operations manager management group. Also, for updating an existing group or modifying existing rules for a Cisco IMC server group.

Importing Cmdlets from the PowerShell Module

Step 1 On the management server, go to **Windows PowerShell > Operations Manager Shell**.

Step 2 Run the **Import-Module CiscoImcScomPs** cmdlet to import the available cmdlets.

Step 3 You can view the list of available cmdlets by using the **Get-Command -Module CiscoImcScomPs** command.

Note If you are using another PowerShell session, import the **OperationsManager** module before importing the **CiscoImcScomPs** module.

Example

This example shows how to import and view the available cmdlets for Cisco IMC:

```
PS C:\Users\Administrator.MSCOM> import-module ciscoimcscomps
PS C:\Users\Administrator.MSCOM> get-command -module ciscoimcscomps
CommandType      Name                                     ModuleName
```

```

-----
Function      Add-ImcScomGroup
Function      Disable-ImcScomRule
Function      Enable-ImcScomRule
Function      Get-ImcScomRule
Function      Update-ImcScomGroup
Function      Update-ImcGroupScomAllInstances
Function      Get-ImcGroupScomAllInstances
PS C:\Users\Administrator.MSCOM>
-----
ciscoimcscomps
ciscoimcscomps
ciscoimcscomps
ciscoimcscomps
ciscoimcscomps
ciscoimcscomps
ciscoimcscomps
ciscoimcscomps

```

Adding or Updating Cisco IMC Groups

Import the cmdlets available for the Cisco IMC management pack.

Cisco IMC group can have multiple IMC IP addresses using IP address range, subnet mask, or comma-separated values. You may specify the proxy details used to connect to the IMC. If the port is not specified, the default port 80 or 443 is used. You need not specify the Run-As-Account details if you want to manually create or assign it later.

1. On the management server, go to the **Windows PowerShell** console.
2. View the list of cmdlets that are available for use by using **Get-Command**. The cmdlet for viewing the available cmdlets for Cisco IMC is **Get-Command Add-ImcScomGroup**.
3. Enter the **Add-ImcScomGroup** cmdlet.
4. Get the parameters of the **Add-ImcScomGroup** cmdlet using the **Get-Help** command.

Syntax

```

Add-ImcScomGroup -GroupName <string>
-NetworkAddress <string> -SubnetMask <string>
-MachineType <string> {Agent Managed Computer
(Trusted Boundary) | Agent Managed Computer
(Untrusted Boundary) | Management Server |
Gateway Server} -MachineName <string>
-Run As Account <string> -RunAsCredential <pscredential>
[-GroupDescription <string>] [-NoSsl] [-Port <int>]
[-ExistingManagementPack <ManagementPack>]
[-ProxyHost <string>] [-ProxyPort <int>]
[-ProxyUsername <string>] [-ProxyPassword <string>]

```

```

Add-ImcScomGroup -GroupName <string>
-NetworkAddress <string> -SubnetMask <string>
-MachineType <string> {Agent Managed Computer
(Trusted Boundary) | Agent Managed Computer
(Untrusted Boundary) | Management Server |
Gateway Server} -MachineName <string>
[-GroupDescription <string>] [-NoSsl]
[-Port <int>] [-ExistingManagementPack
<ManagementPack>] [-ProxyHost <string>]
[-ProxyPort <int>] [-ProxyUsername <string>]
[-ProxyPassword <string>] [-ExistingRun As Account <string>]

```

```

Add-ImcScomGroup -GroupName <string>
-IpRangeStartAddress <string>
-IpRangeEndAddress <string> -MachineType <string>
{Agent Managed Computer (Trusted Boundary) |

```

```

Agent Managed Computer (Untrusted Boundary) |
Management Server | Gateway Server}
-MachineName <string> -Run As Account <string>
-RunAsCredential <pscredential>
[-GroupDescription <string>] [-ExcludeIpList <string>]
[-NoSsl] [-Port <int>]
  [-ExistingManagementPack <ManagementPack>]
[-ProxyHost <string>] [-ProxyPort <int>]
[-ProxyUsername <string>] [-ProxyPassword <string>]

Add-ImcScomGroup -GroupName <string>
-IpRangeStartAddress <string> -IpRangeEndAddress
<string> -MachineType <string> {Agent Managed Computer
(Trusted Boundary) | Agent Managed Computer
(Untrusted Boundary) | Management Server |
Gateway Server} -MachineName <string>
[-GroupDescription <string>] [-ExcludeIpList <string>]
[-NoSsl] [-Port <int>] [-ExistingManagementPack
<ManagementPack>] [-ProxyHost <string>]
[-ProxyPort <int>] [-ProxyUsername <string>]
[-ProxyPassword <string>] [-ExistingRun As Account <string>]

Add-ImcScomGroup -GroupName <string>
-MultiIpAddressRange <string> -MachineType
<string> {Agent Managed Computer (Trusted Boundary) |
Agent Managed Computer (Untrusted Boundary) |
Management Server | Gateway Server} -MachineName <string>
-Run As Account <string> -RunAsCredential <pscredential>
[-GroupDescription <string>] [-ExcludeIpList <string>]
[-NoSsl] [-Port <int>] [-ExistingManagementPack
<ManagementPack>] [-ProxyHost <string>] [-ProxyPort <int>]
[-ProxyUsername <string>] [-ProxyPassword <string>]

Add-ImcScomGroup -GroupName <string>
-MultiIpAddressRange <string>
-MachineType <string> {Agent Managed Computer
(Trusted Boundary) | Agent Managed Computer
(Untrusted Boundary) | Management Server |
Gateway Server} -MachineName <string>
[-GroupDescription <string>] [-ExcludeIpList
<string>] [-NoSsl] [-Port <int>]
[-ExistingManagementPack <ManagementPack>]
[-ProxyHost <string>] [-ProxyPort <int>]
[-ProxyUsername <string>] [-ProxyPassword <string>]
[-ExistingRun As Account <string>]

```

Enter the following parameters:

- **GroupName** – Name of the IMC Group
- **MachineName** – FQDN of the machine on which the IMC group is registered
All scripts related to the IMC group management pack run on this machine.
- (Optional) **GroupDescription** – Description of the IMC group management pack
- **NetworkAddress** – Network address to be used with the subnet mask
- **SubnetMask** – Subnet mask specifying the IMC servers to consider. For example, 255.255.255.128
- **IpRangeStartAddress** – The first IP address in the IMC server block
- **IpRangeEndAddress** – The last IP address in the IMC server block

- ExcludeIpList – Comma-separated list of IP addresses to be excluded
- MultiIpAddressRange – Comma-separated list of IP addresses or IP address ranges. For example, 192.168.1.1,192.168.1.10 to 192.168.1.30,192.168.1.45
- NoSsl – Switch parameter to specify nonsecure (HTTP) connectivity with IMC
- Port – Optional port to connect to Cisco IMC. If not specified, default port (80/443) is used
- ProxyHost – IP address or hostname of the proxy server to be used for communicating to IMC
- ProxyPort – Port for the proxy server
- ProxyUsername – Proxy server username
- ProxyPassword – Proxy server password
- ExistingRunAsAccount – Name of the existing RunAs account for the IMC group
- RunAsAccount – Name of the new RunAs account for the IMC group
- RunAsCredential – Credentials for IMC to create a new RunAs account

Update-ImcScomGroup

Update-ImcScomGroup cmdlet, updates the required properties for an existing IMC group. You can specify the new values for any parameter or parameters you want to modify. For the parameters which are not specified, existing values are used.

Syntax

```
Update-ImcScomGroup -GroupName <string>
[-GroupDescription <string>] [-ExcludeIpList <string>] [-Secure <bool>] [-Port
<int>] [-MachineType <string>]
{Agent Managed Computer (Trusted Boundary) | Agent Managed Computer (Untrusted Boundary) |
Management Server | Gateway Server}}
[-MachineName <string>] [-ProxyHost
<string>] [-ProxyPort <int>] [-ProxyUsername <string>]
[-ProxyPassword <string>]

Update-ImcScomGroup -GroupName <string>
-NetworkAddress <string> -SubnetMask <string>
[-GroupDescription <string>] [-ExcludeIpList<string>]
[-Secure <bool>] [-Port <int>] [-MachineType <string>]
{Agent Managed Computer (Trusted Boundary) |
Agent Managed Computer (Untrusted Boundary) |
Management Server | Gateway Server}} [-MachineName <string>]
[-ProxyHost <string>] [-ProxyPort <int>]
[-ProxyUsername <string>] [-ProxyPassword <string>]

Update-ImcScomGroup -GroupName <string>
-IpRangeStartAddress <string> -IpRangeEndAddress <string>
[-GroupDescription <string>] [-ExcludeIpList <string>]
[-Secure <bool>] [-Port <int>] [-MachineType <string>]
{Agent Managed Computer (Trusted Boundary) |
AgentManaged Computer (Untrusted Boundary) | Management Server |
Gateway Server}} [-MachineName <string>] [-ProxyHost <string>]
[-ProxyPort<int>] [-ProxyUsername <string>] [-ProxyPassword <string>]
```

```
Update-ImcScomGroup -GroupName <string>
-MultiIpAddressRange <string> [-GroupDescription
<string>] [-ExcludeIpList <string>] [-Secure<bool>]
[-Port <int>] [-MachineType <string>
{Agent Managed Computer (Trusted Boundary) |
Agent Managed Computer (Untrusted Boundary) |
Management Server | Gateway Server}]
[-MachineName <string>] [-ProxyHost <string>]
[-ProxyPort <int>] [-ProxyUsername <string>][-ProxyPassword <string>]
```

Enter the following parameters:

- **GroupName** – Name of the IMC group to be updated
- **MachineName** – FQDN of new machine, all scripts related to this IMC Group MP runs on this machine)
- **GroupDescription** – New description string for this IMC Group MP
- **NetworkAddress** – Network address to be used with the subnet mask
- **SubnetMask** – Subnet mask specifying the IMC servers to consider. For example, 255.255.255.128
- **IpRangeStartAddress** – First IP address from the IP address range for IMC servers
- **IpRangeEndAddress** – Last IP address from IP address range for IMC servers
- **ExcludeIpList** – Comma-separated list of IP addresses not to be included
- **MultiIpAddressRange** – Comma-separated list of IP addresses or IP address ranges. For example, 192.168.1.1, 192.168.1.10-192.168.1.30, 192.168.1.45
- **Secure** – Boolean value to either set or reset the secure connection option
- **Port** – New port number to be used.
- **ProxyHost** – IP address or hostname of the new proxy server to be used for communicating with IMC
- **ProxyPort** – New port number for the proxy server
- **ProxyUsername** – New username for the Proxy server
- **ProxyPassword** – New password for the Proxy server

Get-ImcScomRule

```
Get-ImcScomRule [[-Class] <string[]>] [[-FaultCode] <string[]>] [<CommonParameters>]
```

Get-ImcGroupScomAllInstances

```
Get-ImcGroupScomAllInstances
[available in MP v4.1.5]
```

Update-ImcGroupScomAllInstances

```
Update-ImcGroupScomAllInstances
```

Enable-ImcScomRule

Provide a name of management pack to which the override is added.

```
Enable-ImcScomRule [-Rule] <ManagementPackRule[]>  
[-ManagementPackName] <string>
```

Disable-ImcScomRule

Provide a name of management pack to which the override is added.

```
Disable-ImcScomRule [-Rule] <ManagementPackRule[]>  
[-ManagementPackName] <string>
```