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# **VMware-NSXvCD-Module Documentation**

*Release stable*

**May 21, 2018**



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This the basic documentation of the 'VMware-NSXvCD-Module' PowerShell Module.

GitHub: <https://github.com/mycloudrevolution/VMware-NSXvCD-Module>

WebSite: <https://mycloudrevolution.com/>

The main documentation for the module is organized into a couple sections:

- *Feature Documentation*

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external help file: Enable-NsxVcdDfw-help.xml Module Name: VMware-NSXvCD-Module online version:  
<https://mycloudrevolution.com/> schema: 2.0.0

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## Enable-NsxVcdDfw

---

### 1.1 SYNOPSIS

### 1.2 SYNTAX

```
Enable-NsxVcdDfw [[-Id] <String>] [<CommonParameters>]
```

### 1.3 DESCRIPTION

Enables the Distributed Firewall for the OrgVdc.

### 1.4 EXAMPLES

#### 1.4.1 EXAMPLE 1

```
Enable-NsxVcdDfw -Id OrgVdcId
```

### 1.5 PARAMETERS

#### 1.5.1 -Id

Id of the OrgVdc

```
Type: String
Parameter Sets: (All)
Aliases:

Required: False
Position: 1
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

## 1.5.2 CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see about\_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

## 1.6 INPUTS

## 1.7 OUTPUTS

## 1.8 NOTES

File Name : Enable-NsxVcdDfw.ps1 Author : Markus Kraus Version : 0.2 State : Test

## 1.9 RELATED LINKS

<https://mycloudrevolution.com/>

---

external help file: Get-NsxVcdDfwRule-help.xml Module Name: VMware-NSXvCD-Module online version: <https://mycloudrevolution.com/> schema: 2.0.0

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---

### Get-NsxVcdDfwRule

---

## 2.1 SYNOPSIS

## 2.2 SYNTAX

### 2.2.1 layer3Sections

```
Get-NsxVcdDfwRule -OrgVdcId <String> [-RuleId <String>] [-layer3Sections] [  
↪<CommonParameters>]
```

### 2.2.2 layer2Sections

```
Get-NsxVcdDfwRule -OrgVdcId <String> [-RuleId <String>] [-layer2Sections] [  
↪<CommonParameters>]
```

## 2.3 DESCRIPTION

Returns the of the Firewall Rules the OrgVdc DFW.

## 2.4 EXAMPLES

### 2.4.1 EXAMPLE 1

```
Get-NsxVcdDfwRule -OrgId OrgVdcId -layer3Sections
```

## 2.4.2 EXAMPLE 2

```
Get-NsxVcdDfwRule -OrgId OrgVdcId -layer2Sections
```

## 2.4.3 EXAMPLE 3

```
Get-NsxVcdDfwRule -OrgId OrgVdcId -layer2Sections -RuleId 1234
```

# 2.5 PARAMETERS

## 2.5.1 -OrgVdcId

Id of the OrgVdcId

```
Type: String
Parameter Sets: (All)
Aliases:

Required: True
Position: Named
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

## 2.5.2 -RuleId

Rule Id of the OrgVdc DFW

```
Type: String
Parameter Sets: (All)
Aliases:

Required: False
Position: Named
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

## 2.5.3 -layer3Sections

Display only layer3Sections

```
Type: SwitchParameter
Parameter Sets: layer3Sections
Aliases:

Required: True
Position: Named
Default value: False
```

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```
Accept pipeline input: False
Accept wildcard characters: False
```

## 2.5.4 -layer2Sections

Display only layer2Sections

```
Type: SwitchParameter
Parameter Sets: layer2Sections
Aliases:

Required: True
Position: Named
Default value: False
Accept pipeline input: False
Accept wildcard characters: False
```

## 2.5.5 CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see about\_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

## 2.6 INPUTS

## 2.7 OUTPUTS

## 2.8 NOTES

File Name : Get-NsxVcdDfwRule.ps1 Author : Markus Kraus Version : 1.0 State : Ready

## 2.9 RELATED LINKS

<https://mycloudrevolution.com/>

external help file: Get-NsxVcdEdge-help.xml Module Name: VMware-NSXvCD-Module online version:  
<https://mycloudrevolution.com/> schema: 2.0.0



---

### Get-NsxVcdEdge

---

#### 3.1 SYNOPSIS

#### 3.2 SYNTAX

```
Get-NsxVcdEdge [[-Name] <String>] [[-OrgVdcName] <String>] [<CommonParameters>]
```

#### 3.3 DESCRIPTION

Returns Edge Gateways.

#### 3.4 EXAMPLES

##### 3.4.1 EXAMPLE 1

```
Get-NsxVcdEdge
```

##### 3.4.2 EXAMPLE 2

```
Get-NsxVcdEdge -Name YourEdgeName
```

### 3.4.3 EXAMPLE 3

```
Get-NsxVcdEdge -OrgVdcName YourOrgName
```

### 3.4.4 EXAMPLE 4

```
Get-NsxVcdEdge | select Name, datacenterName, Id | ft -AutoSize
```

## 3.5 PARAMETERS

### 3.5.1 -Name

Name of the Edge Gateway

```
Type: String
Parameter Sets: (All)
Aliases:

Required: False
Position: 1
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

### 3.5.2 -OrgVdcName

OrgVdc Name of the Edge Gateway

```
Type: String
Parameter Sets: (All)
Aliases:

Required: False
Position: 2
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

### 3.5.3 CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see `about_CommonParameters` (<http://go.microsoft.com/fwlink/?LinkID=113216>).



## 3.6 INPUTS

## 3.7 OUTPUTS

## 3.8 NOTES

File Name : Get-NsxVcdEdge.ps1 Author : Markus Kraus Version : 1.3 State : Ready

## 3.9 RELATED LINKS

<https://mycloudrevolution.com/>

---

external help file: Get-NsxVcdEdgeDetails-help.xml Module Name: VMware-NSXvCD-Module online version:  
<https://mycloudrevolution.com/> schema: 2.0.0

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---

### Get-NsxVcdEdgeDetails

---

#### 4.1 SYNOPSIS

#### 4.2 SYNTAX

```
Get-NsxVcdEdgeDetails [-Id] <String> [<CommonParameters>]
```

#### 4.3 DESCRIPTION

Returns Details of the Edge Gateway.

#### 4.4 EXAMPLES

##### 4.4.1 EXAMPLE 1

```
Get-NsxVcdEdgeDetails -Id EdgeId
```

##### 4.4.2 EXAMPLE 2

```
Get-NsxVcdEdge | Get-NsxVcdEdgeDetails | ft -AutoSize
```

## 4.5 PARAMETERS

### 4.5.1 -Id

Id of the Edge Gateway

Note: You can list all Ids of your edges by: 'Get-NsxVcdEdge | select Name, datacenterName, Id'

```
Type: String
Parameter Sets: (All)
Aliases:

Required: True
Position: 1
Default value: None
Accept pipeline input: True (ByPropertyName, ByValue)
Accept wildcard characters: False
```

### 4.5.2 CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see about\_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

## 4.6 INPUTS

## 4.7 OUTPUTS

## 4.8 NOTES

File Name : Get-NsxVcdEdgeDetails.ps1 Author : Markus Kraus Version : 1.1 State : Ready

## 4.9 RELATED LINKS

<https://mycloudrevolution.com/>

---

external help file: Get-NsxVcdEdgeFirewallRule-help.xml Module Name: VMware-NSXvCD-Module online version: <https://mycloudrevolution.com/> schema: 2.0.0

---

---

## Get-NsxVcdEdgeFirewallRule

---

### 5.1 SYNOPSIS

### 5.2 SYNTAX

```
Get-NsxVcdEdgeFirewallRule [-Id] <String> [[-RuleId] <Int64>] [-OutputXML] [  
↪ <CommonParameters>]
```

### 5.3 DESCRIPTION

Returns the of the Firewall Rules of the Edge Gateway.

### 5.4 EXAMPLES

#### 5.4.1 EXAMPLE 1

```
Get-NsxVcdEdgeFirewallRule -Id EdgeId
```

#### 5.4.2 EXAMPLE 2

```
Get-NsxVcdEdge | Get-NsxVcdEdgeFirewallRule | ft -AutoSize
```

## 5.5 PARAMETERS

### 5.5.1 -Id

Id of the Edge Gateway

Note: You can list all Ids of your edges by: 'Get-NsxVcdEdge | select Name, datacenterName, Id'

```
Type: String
Parameter Sets: (All)
Aliases:

Required: True
Position: 1
Default value: None
Accept pipeline input: True (ByPropertyName, ByValue)
Accept wildcard characters: False
```

### 5.5.2 -RuleId

RuleId of the Firewall Rule

```
Type: Int64
Parameter Sets: (All)
Aliases:

Required: False
Position: 2
Default value: 0
Accept pipeline input: False
Accept wildcard characters: False
```

### 5.5.3 -OutputXML

Output the result as XML

```
Type: SwitchParameter
Parameter Sets: (All)
Aliases:

Required: False
Position: Named
Default value: False
Accept pipeline input: False
Accept wildcard characters: False
```

### 5.5.4 CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see about\_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

## 5.6 INPUTS

## 5.7 OUTPUTS

## 5.8 NOTES

File Name : Get-NsxVcdEdgeFirewallRule.ps1 Author : Markus Kraus Version : 1.2 State : Ready

## 5.9 RELATED LINKS

<https://mycloudrevolution.com/>

---

external help file: Get-NsxVcdEdgeFirewallRuleDetails-help.xml Module Name: VMware-NSXvCD-Module online  
version: <https://mycloudrevolution.com/> schema: 2.0.0

---





---

## Get-NsxVcdEdgeFirewallRuleDetails

---

### 6.1 SYNOPSIS

### 6.2 SYNTAX

```
Get-NsxVcdEdgeFirewallRuleDetails [-Id] <String> [-RuleId] <Int64> [<CommonParameters>  
↪ ]
```

### 6.3 DESCRIPTION

Returns Details of a Firewall Rule of the Edge Gateway.

Note: Only User Rules can be displayed

### 6.4 EXAMPLES

#### 6.4.1 EXAMPLE 1

```
Get-NsxVcdEdgeFirewallRuleDetails -Id EdgeId -RuleId FirewallRuleId
```

#### 6.4.2 EXAMPLE 2

```
Get-NsxVcdEdge | Get-NsxVcdEdgeFirewallRuleDetails -RuleId FirewallRuleId
```

## 6.5 PARAMETERS

### 6.5.1 -Id

Id of the Edge Gateway

Note: You can list all Ids of your edges by: 'Get-NsxVcdEdge | select Name, datacenterName, Id'

```
Type: String
Parameter Sets: (All)
Aliases:

Required: True
Position: 1
Default value: None
Accept pipeline input: True (ByPropertyName, ByValue)
Accept wildcard characters: False
```

### 6.5.2 -RuleId

RuleId of the Firewall Rule

```
Type: Int64
Parameter Sets: (All)
Aliases:

Required: True
Position: 2
Default value: 0
Accept pipeline input: False
Accept wildcard characters: False
```

### 6.5.3 CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see about\_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

## 6.6 INPUTS

## 6.7 OUTPUTS

## 6.8 NOTES

File Name : Get-NsxVcdEdgeFirewallRuleDetails.ps1 Author : Markus Kraus Version : 1.0 State : Ready

## 6.9 RELATED LINKS

<https://mycloudrevolution.com/>

---

external help file: Get-NsxVcdEdgeFirewallRuleStats-help.xml Module Name: VMware-NSXvCD-Module online  
version: <https://mycloudrevolution.com/> schema: 2.0.0

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---

## Get-NsxVcdEdgeFirewallRuleStats

---

### 7.1 SYNOPSIS

### 7.2 SYNTAX

```
Get-NsxVcdEdgeFirewallRuleStats [-Id] <String> [-RuleId] <Int64> [<CommonParameters>]
```

### 7.3 DESCRIPTION

Returns the Stats of the Firewall Rule of the Edge Gateway.

### 7.4 EXAMPLES

#### 7.4.1 EXAMPLE 1

```
Get-NsxVcdEdgeFirewallRuleStats -Id EdgeId -RuleId FirewallRuleId
```

#### 7.4.2 EXAMPLE 2

```
Get-NsxVcdEdge | where {$_.name -like EdgeName} | Get-NsxVcdEdgeFirewallRuleStats -  
↪RuleId FirewallRuleId
```

## 7.5 PARAMETERS

### 7.5.1 -Id

Id of the Edge Gateway

Note: You can list all Ids of your edges by: 'Get-NsxVcdEdge | select Name, datacenterName, Id'

```
Type: String
Parameter Sets: (All)
Aliases:

Required: True
Position: 1
Default value: None
Accept pipeline input: True (ByPropertyName, ByValue)
Accept wildcard characters: False
```

### 7.5.2 -RuleId

RuleId of the Firewall Rule

```
Type: Int64
Parameter Sets: (All)
Aliases:

Required: True
Position: 2
Default value: 0
Accept pipeline input: False
Accept wildcard characters: False
```

### 7.5.3 CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see about\_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

## 7.6 INPUTS

## 7.7 OUTPUTS

## 7.8 NOTES

File Name : Get-NsxVcdEdgeFirewallRuleStats.ps1 Author : Markus Kraus Version : 1.2 State : Ready

## 7.9 RELATED LINKS

<https://mycloudrevolution.com/>

---

external help file: Get-NsxVcdEdgeNatRule-help.xml Module Name: VMware-NSXvCD-Module online version:  
<https://mycloudrevolution.com/> schema: 2.0.0

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---

### Get-NsxVcdEdgeNatRule

---

#### 8.1 SYNOPSIS

#### 8.2 SYNTAX

```
Get-NsxVcdEdgeNatRule [[-Id] <String>] [<CommonParameters>]
```

#### 8.3 DESCRIPTION

Returns all NAT Rules of the Edge Gateway.

#### 8.4 EXAMPLES

##### 8.4.1 EXAMPLE 1

```
Get-NsxVcdEdgeNatRule -Id EdgeId
```

##### 8.4.2 EXAMPLE 2

```
Get-NsxVcdEdge -OrgVdcName OrgVdcName | Get-NsxVcdEdgeNatRule | ft -AutoSize
```

## 8.5 PARAMETERS

### 8.5.1 -Id

Id of the Edge Gateway

Note: You can list all Ids of your edges by: 'Get-NsxVcdEdge | select Name, datacenterName, Id'

```
Type: String
Parameter Sets: (All)
Aliases:

Required: False
Position: 1
Default value: None
Accept pipeline input: True (ByPropertyName, ByValue)
Accept wildcard characters: False
```

### 8.5.2 CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see about\_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

## 8.6 INPUTS

## 8.7 OUTPUTS

## 8.8 NOTES

File Name : Get-NsxVcdEdgeNatRule.ps1 Author : Markus Kraus Version : 1.1 State : Ready

## 8.9 RELATED LINKS

<https://mycloudrevolution.com/>

---

external help file: Invoke-APICall-help.xml Module Name: VMware-NSXvCD-Module online version:  
<https://mycloudrevolution.com/> schema: 2.0.0

---

## 9.1 SYNOPSIS

## 9.2 SYNTAX

```
Invoke-APICall [[-Server] <String>] [[-Authorization] <String>] [-Uri] <String> [[-
↪Accept] <String>]
[-Method] <String> [<CommonParameters>]
```

## 9.3 DESCRIPTION

Helper Function to call the vCloud Director API.

## 9.4 EXAMPLES

### 9.4.1 EXAMPLE 1

```
Invoke-APICall -Uri "/network/edges/$Id/nat/config" -Method "Get"
```

## 9.5 PARAMETERS

### 9.5.1 -Server

FQDN of the vCloud Director Instance

```
Type: String
Parameter Sets: (All)
Aliases:

Required: False
Position: 1
Default value: $Global:ApiConnection.Server
Accept pipeline input: False
Accept wildcard characters: False
```

## 9.5.2 -Authorization

### API Authorization String

```
Type: String
Parameter Sets: (All)
Aliases:

Required: False
Position: 2
Default value: $Global:ApiConnection.Authorization
Accept pipeline input: False
Accept wildcard characters: False
```

## 9.5.3 -Uri

### API Uri

```
Type: String
Parameter Sets: (All)
Aliases:

Required: True
Position: 3
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

## 9.5.4 -Accept

### Accept Header for the API Call

```
Type: String
Parameter Sets: (All)
Aliases:

Required: False
Position: 4
Default value: Application/*+xml
Accept pipeline input: False
Accept wildcard characters: False
```

### 9.5.5 -Method

Method of the API Call

```
Type: String
Parameter Sets: (All)
Aliases:

Required: True
Position: 5
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

### 9.5.6 CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see about\_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

## 9.6 INPUTS

## 9.7 OUTPUTS

## 9.8 NOTES

File Name : Invoke-ApiCall.ps1 Author : Markus Kraus Version : 1.1 State : Ready

## 9.9 RELATED LINKS

<https://mycloudrevolution.com/>

---

external help file: New-ApiConnection-help.xml Module Name: VMware-NSXvCD-Module online version:  
<https://mycloudrevolution.com/> schema: 2.0.0

---



---

## New-ApiConnection

---

### 10.1 SYNOPSIS

### 10.2 SYNTAX

```
New-ApiConnection [-Server] <String> [-Credential] <PSCredential> [<CommonParameters>]
```

### 10.3 DESCRIPTION

Connects to the API of your vCloud Director instance. The Session is saved for further use.

### 10.4 EXAMPLES

#### 10.4.1 EXAMPLE 1

```
New-ApiConnection -Server ServerFQDN -Credential $Credential
```

### 10.5 PARAMETERS

#### 10.5.1 -Server

FQDN of the vCloud Director Instance

```
Type: String
Parameter Sets: (All)
Aliases:

Required: True
Position: 1
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

## 10.5.2 -Credential

API Credentials for the vCloud Director Instance

Note: Username needs to be: <User>@<Org> (Administratator@system)

```
Type: PSCredential
Parameter Sets: (All)
Aliases:

Required: True
Position: 2
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

## 10.5.3 CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see about\_CommonParameters (<http://go.microsoft.com/fwlink/?LinkID=113216>).

## 10.6 INPUTS

## 10.7 OUTPUTS

## 10.8 NOTES

File Name : New-ApiConnection.ps1 Author : Markus Kraus Version : 1.2 State : Ready

## 10.9 RELATED LINKS

<https://mycloudrevolution.com/>