

How to create a virtual port group

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google doc ([view](#))

You can use PowerCLI to automatically create virtual port and then remove it.

Create a new virtual port group to a vswitch

Step 1: Get vswitch

`$vswitch='vswitch0'`

Step 2: Create a virtual port group

`$port_group_name='myadmin-pxe'`

`$vlan_id=0 # no VLAN id for this group`

`$vportgroup=New-VirtualPortGroup -name $port_group_name -virtualswitch $vswitch -vlanid $vlan_id`

Example

Setup powershell policy

`set-executionpolicy remotesigned`

Initial environment

`. "C:\Program Files (x86)\VMware\Infrastructure\vsphere
PowerCLI\Scripts\Initialize-PowerCLIEvironment.ps1"`

Connect to the ESXi Server

`$esxi_host_ip='172.16.219.130'`

`$user='root'`

`$passwd='1234567'`

`Connect-VIServer -Server $esxi_host_ip -User $user -Password $passwd`

the function

Step 1: Get vswitch

`$vswitch='vswitch0'`

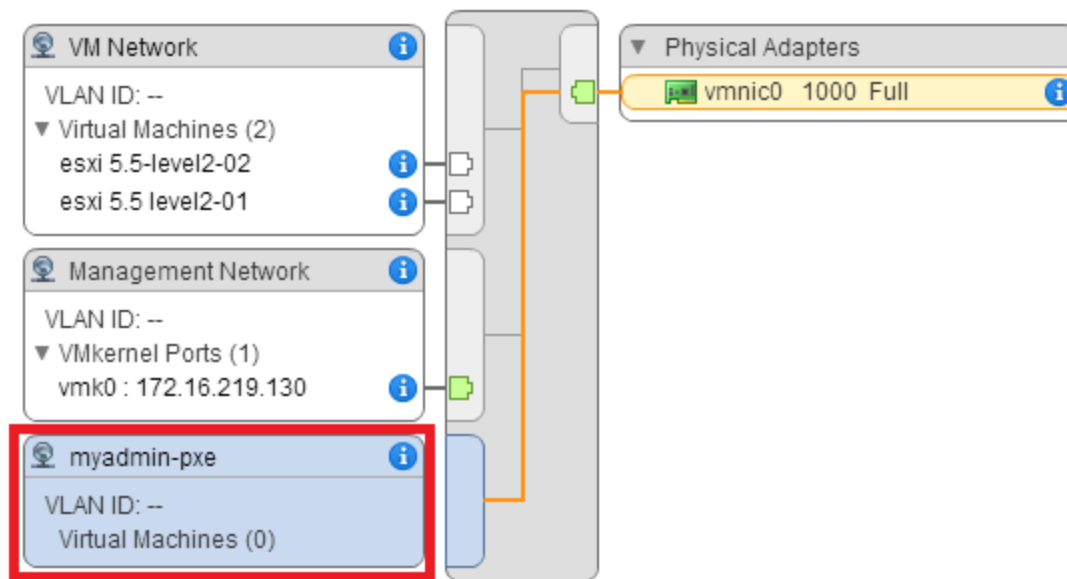
Step 2: Create a virtual port group

`$port_group_name='myadmin-pxe'`

`$vlan_id=0 # no VLAN id for this group`

`$vportgroup=New-VirtualPortGroup -name $port_group_name -virtualswitch $vswitch -vlanid $vlan_id`

Verification



Remove a port group

Command

```
$obj=get-virtualportgroup -name 'myadmin-pxe'
remove-virtualportgroup -virtualportgroup $obj
```

```
PowerCLI C:\> get-virtualportgroup -name 'myadmin-pxe'

Name                               Key                               VlanId PortBinding NumPorts
----                               -
myadmin-pxe                       key-vim.host.PortGroup-myad... 0

PowerCLI C:\> $obj=get-virtualportgroup -name 'myadmin-pxe'
PowerCLI C:\> remove-virtualportgroup -virtualportgroup $obj

Perform operation?
Perform operation 'Remove virtual port group.' on 'myadmin-pxe'.
[Y] 是(Y) [A] 全部皆是(A) [N] 否(N) [L] 全部皆否(L) [S] 暂停(S) [?] 说明 (预设值为 "Y"): y
PowerCLI C:\>
```

Setup Security Group

Command

```
Get-VirtualPortgroup -Name $port_group_name | Get-SecurityPolicy | Set-SecurityPolicy
-AllowPromiscuous $true -MacChanges $true -ForgedTransmits $true
```

```
PowerCLI C:\users\jing\Desktop> Get-VirtualPortgroup -Name $port_group_name | Get-SecurityPolicy | Set-SecurityPolicy -AllowPromiscuous $true -MacChanges $true -ForgedTransmits $true
```

VirtualPortGroup	AllowPromiscuous	ForgedTransmits	MacChanges
Private	True	True	True

array version

```
$port_group_array=@('Admin-PXE', 'Management', 'Storage', 'Public', 'Private')
```

```
foreach ($port_group_name in $port_group_array) {
```

```
    Get-VirtualPortgroup -Name $port_group_name | Get-SecurityPolicy | Set-SecurityPolicy -AllowPromiscuous $true -MacChanges $true -ForgedTransmits $true
```

```
}
```

```
PowerCLI C:\users\jing\Desktop> $port_group_array=@('Admin-PXE', 'Management', 'Storage', 'Public', 'Private')
PowerCLI C:\users\jing\Desktop> foreach ($port_group_name in $port_group_array) {
>> Get-VirtualPortgroup -Name $port_group_name | Get-SecurityPolicy | Set-SecurityPolicy -AllowPromiscuous $true -MacChanges $true -ForgedTransmits $true
>> }
>>
```

VirtualPortGroup	AllowPromiscuous	ForgedTransmits	MacChanges
Admin-PXE	True	True	True
Management	True	True	True
Storage	True	True	True
Public	True	True	True
Private	True	True	True

```
PowerCLI C:\users\jing\Desktop>
```

References

- Add Port Group,
<https://www.vmware.com/support/developer/PowerCLI/PowerCLI41/html/New-VirtualPortGroup.html>
- Remove Port Group,
<https://www.vmware.com/support/developer/PowerCLI/PowerCLI41/html/Remove-VirtualPortGroup.html>