

## Contents

- [1 Introduction](#)
- [2 Design](#)
- [3 Configuration](#)
- [4 Related show Commands](#)
- [5 Show running-config](#)
- [6 Related Information](#)

## Introduction

The Cisco Nexus 1000V VSM and VEM can run on the same host. In this case, the VSM communicates with the co-located VEM and other VEMs in the network using its own switch.

## Design

The following example shows the port profile and domain configuration for a VSM and VEM on the same host.

In this example the following VLANs are used:

- Service Console: VLAN 100
- Control traffic: VLAN 101
- Management traffic: VLAN 102
- Packet traffic: VLAN 103

In this example, the ServiceConsole is not configured for VLAN tagging. The vethernet port profile could easily be changed to trunking if required (vlan 1,100,101,102,103).

## Configuration

### System Uplink Port Profile

```
port-profile type ethernet system-uplink
vmware port-group
switchport mode trunk
switchport trunk allowed vlan 100, 101, 102, 103
no shutdown
system vlan 100,101,102,103
state enabled
```

### Port Profile for control traffic

```
port-profile type vethernet control
vmware port-group
switchport mode access
switchport access vlan 101
no shutdown
system vlan 101
state enabled
```

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## Port Profile for management traffic

```
port-profile type vethernet management
vmware port-group
switchport mode access
switchport access vlan 102
no shutdown
system vlan 102
state enabled
```

## Port Profile for packet traffic

```
port-profile type vethernet packet
vmware port-group
switchport mode access
switchport access vlan 103
no shutdown
system vlan 103
state enabled
```

## Port Profile for the Service Console

```
port-profile type vethernet ServiceConsole
vmware port-group
switchport mode access
switchport access vlan 100
no shutdown
system vlan 100
state enabled
```

## Domain configuration

```
svs-domain
domain id 4
control vlan 101
packet vlan 103
svs mode L2
```

## Related show Commands

This section provides information you can use to confirm your configuration is working properly.

Certain show commands are supported by the [Output Interpreter Tool \(registered customers only\)](#), which allows you to view an analysis of show command output.

```
show port-profile [name 'prof_name']
```

```
show svs domain]
```

## Show running-config

```
show running-config interface ethernet 'slot/port'
```

```
show running-config interface vethernet 'interface-number'
```

## Cisco\_Nexus\_1000V\_VSM\_and\_VEM\_on\_the\_Same\_Host\_Configuration\_Example

```
show running-config interface vethernet 'interface-number'
```

### **Related Information**

[Technical Support & Documentation - Cisco Systems](#)

[Cisco Nexus 1000V System Management Configuration Guide](#)

[Cisco Nexus 1000V Getting Started Guide](#)

[Cisco Nexus 1000V Port Profile Configuration Guide](#)