



## INDEX

---

### A

Access Control Lists. See ACLs.

#### ACLs

- commands for troubleshooting [10-2](#)
- configuration limits [10-1](#)
- debugging policy verification [10-3](#)
- description [10-1](#)
- displaying ACL policies on the VEM [10-2](#)
- restrictions [10-2](#)

---

### B

bundle, software

- ID match [4-3, 4-4](#)

---

### C

Cisco Nexus 1000V

- system overview [18-1](#)

Cisco Nexus 1000V switch

- copying files to or from [19-3](#)

CLI

- ping command [2-1](#)
- traceroute command [2-2](#)

connectivity

- vCenter Server [3-5](#)
- verifying [1-3](#)
- verifying between VSM and vCenter Server [3-5](#)
- verifying between VSM and VEM [6-8](#)
- VSM and vCenter Server problem symptoms and solutions [18-5](#)

core dumps [19-2](#)

CPU status

- monitoring [2-2](#)

customer support

- collecting information [19-1](#)
- contacting Cisco or VMware [1-7](#)

---

### D

documentation

- additional publications [i-xv, i-xvi](#)
- conventions [i-xiv](#)

domain parameters [3-4](#)

DVS

- find extension key [3-8](#)
- recovering [18-2](#)

---

### E

error messages

- vSphere Client [18-12](#)

extension key

- finding for specific DVS [3-8](#)
- unregistering in vCenter Server [3-12](#)

---

### H

HA

- commands to troubleshoot [17-6](#)
- description [17-1](#)
- network level support [17-2](#)
- problem symptoms and solutions [17-3](#)
- system level support [17-2](#)

High Availability. See HA

***Send document comments to [nexus1k-docfeedback@cisco.com](mailto:nexus1k-docfeedback@cisco.com).***

## hosts

problem symptoms and solutions [18-9, 18-10](#)

## I

### IGMP snooping

commands for troubleshooting [15-2](#)

description [15-1](#)

problem symptoms and solutions [15-4](#)

troubleshooting guidelines [15-2](#)

### installation

recreating the installation flowchart [3-3, 3-10](#)

Internet Group Management Protocol snooping. See IGMP snooping

## J

jumbo frames and MTU [18-6](#)

## K

key, extension [3-8](#)

## L

### Layer 2 switching

inter-VEM ping [9-5](#)

intra-VEMping [9-4](#)

overview [9-1](#)

problem symptoms and solutions [9-7](#)

traffic interruptions [9-6](#)

### license

Cisco Nexus N1000V license package [5-1](#)

contents of Cisco Nexus N1000V license file [5-3](#)

installation issues [5-3](#)

post-installation issues [5-4](#)

removal [5-5](#)

troubleshooting checklist [5-3](#)

usage [5-3](#)

VMware Enterprise Plus [3-1](#)

licensed module [5-1](#)

Link Aggregation Control Protocol (LACP) [17-2](#)

logging levels [2-5](#)

logs [1-6](#)

## M

### MAC address tables

verifying [9-7](#)

### module

licensed [5-1](#)

not coming up on the VSM [6-1](#)

unlicensed [5-1](#)

verifying module state [7-2](#)

virtual Ethernet module (VEM) [6-1](#)

virtual supervisor module (VSM) [6-1](#)

MTU settings, with jumbo frames [18-6](#)

### multicast

description [15-1](#)

## N

### NetFlow

commands for troubleshooting [12-2](#)

configuration problems [12-3](#)

description [12-1](#)

network adapter [3-5](#)

### Nexus 1000V switch

plug-in [3-7](#)

## P

### port channels

asymmetric [8-3](#)

cannot create port channel [8-4](#)

commands to troubleshoot [8-2](#)

description [8-1](#)

***Send document comments to [nexus1k-docfeedback@cisco.com](mailto:nexus1k-docfeedback@cisco.com).***

forcing port channel characteristics onto an interface [8-4](#)

initial checklist [8-2](#)

interface does not come online [8-4](#)

troubleshooting checklist [8-2](#)

verifying a port channel configuration [8-6](#)

#### port groups

assigning to VSM VM [3-4](#)

virtual interfaces [3-4](#)

#### port profiles

commands to troubleshoot [7-14](#)

creating corresponding port groups on vCenter Server [18-9](#)

debug logs [7-14](#)

description [7-13](#)

problem symptoms and solutions [7-19](#)

system port profiles [7-18](#)

transferring from the VSM to vCenter Server [7-19](#)

#### ports

error disabled [7-7](#)

flapping [7-6](#)

interface configuration [7-2](#)

interface description [7-1](#)

link flapping [7-6](#)

overview [7-1](#)

ping from a VM with port security enabled [7-9](#)

port counters [7-4](#)

port enabled and port security is ErrDisabled [7-11](#)

port interface cannot be enabled [7-5](#)

port security address count exceed violation [7-11](#)

port security MAC move violation [7-11](#)

port security problems [7-8](#)

port security restrictions and limitations [7-12](#)

port state is ErrDisabled [7-7](#)

port state is link failure or not connected [7-6](#)

port types [9-4](#)

troubleshooting checklist [7-2](#)

troubleshooting with CLI [7-3](#)

verifying [1-3](#)

viewing port state [7-3](#)

#### private VLANs

commands to troubleshoot [14-2](#)

description [14-1](#)

troubleshooting guidelines [14-2](#)

---

## Q

### QoS

commands to troubleshoot [11-2](#)

configuration limits [11-1](#)

debugging policy verification errors [11-3](#)

description [11-1](#)

troubleshooting QoS policies on the VEM [11-2](#)

Quality of Service. See QoS

---

## R

### RADIUS

accounting logs [2-5](#)

related documents [i-xv](#), [i-xvi](#)

---

## S

### software

core dumps [19-2](#)

software bundle ID, match [4-3](#), [4-4](#)

### SPAN

commands to troubleshoot [16-3](#)

configuration guidelines [16-3](#)

description [16-1](#)

destinations [16-2](#)

ERSPAN destinations [16-2](#)

problem symptoms and solutions [16-4](#)

session requirements [16-3](#)

sessions [16-2](#)

sources [16-1](#)

Switched Port Analyzer. See SPAN

***Send document comments to [nexus1k-docfeedback@cisco.com](mailto:nexus1k-docfeedback@cisco.com).***

synchronization problems [7-4](#)

syslog

See system messages

system messages

explanation and recommended action [1-5](#)

logging levels [2-5](#)

overview [1-4, 2-5](#)

syslog server [1-5](#)

using CLI [1-5](#)

system port profiles

description [7-18](#)

system processes

monitoring [2-2](#)

---

## T

troubleshooting process

best practices [1-1](#)

common CLI commands [1-3](#)

general process steps [1-2](#)

guidelines [1-2](#)

overview [1-1](#)

trunking

initial checklist [8-2](#)

overview [8-2](#)

---

## U

unlicensed module [5-1](#)

unregistering an extension key [3-12](#)

---

## V

vCenter Server

refreshing connection [3-3](#)

removing the VSM [3-11](#)

restrictions [18-2](#)

unregistering the VSM [3-12](#)

verifying connection to VSM [6-4](#)

verifying correct configuration [6-8](#)

VEM

commands for vemlog [18-11](#)

commands to troubleshoot [18-10](#)

domain parameters [3-4](#)

physical ports [9-2](#)

unlicensed [5-2](#)

verifying correct configuration [6-10](#)

view of ports [9-2](#)

virtual ports [9-2](#)

verifying

MAC address tables [9-7](#)

Virtual Ethernet Module. See VEM.

virtual Ethernet port (veth) [9-2](#)

virtual NIC [9-2](#)

Virtual Supervisor Module. See VSM.

VLAN

cannot create [13-3](#)

traffic does not traverse trunk [8-6](#)

troubleshooting checklist [13-2](#)

VLANs

description [13-1](#)

VM

improving performance [3-4](#)

traffic problems [18-10](#)

vmnic

number allocation [9-3](#)

VSM

commands to troubleshoot [6-14](#)

creating [18-9](#)

domain parameters [3-4](#)

identifying extension key [3-12](#)

removing hosts from [3-11](#)

verifying correct configuration [6-5](#)

view of ports [9-3](#)

vSphere Client

error messages [18-12](#)

***Send document comments to [nexus1k-docfeedback@cisco.com](mailto:nexus1k-docfeedback@cisco.com).***

***Send document comments to [nexus1k-docfeedback@cisco.com](mailto:nexus1k-docfeedback@cisco.com).***