



Cisco Nexus 5600 Series NX-OS VM Tracker Configuration Guide, Release 7.x

First Published: December 22, 2014

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: <http://www.cisco.com/go/trademarks>. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

© 2014 Cisco Systems, Inc. All rights reserved.



CONTENTS

Preface

Preface v

Audience v

Document Conventions v

Related Documentation for Cisco Nexus 5600 Series NX-OS Software vi

Documentation Feedback viii

Obtaining Documentation and Submitting a Service Request viii

CHAPTER 1

Virtual Machine Tracker Overview 1

Information About Virtual Machine Tracker 1

Virtual Machine Tracker and VMware vCenter 2

CHAPTER 2

Configuring Virtual Machine Tracker 3

Information About Virtual Machine Tracker 3

Guidelines and Limitations for VM Tracker 3

Licensing Requirements for the Virtual Machine Tracker 4

Enabling Virtual Machine Tracker 4

Creating a New Connection to vCenter 5

Synchronizing Information with VMware vCenter 5

Verifying the Virtual Machine Tracker Configuration 6

Enabling Virtual Machine Tracker on Specific Interfaces 7

Configuring Dynamic VLAN Creation 7

Enabling Dynamic VLAN Creation 7

Configuring an Allowed VLAN List 8

Removing an Allowed VLAN List 8

Example Configuration for Virtual Machine Tracker 9



Preface

The Preface contains the following sections:

- [Audience, page v](#)
- [Document Conventions, page v](#)
- [Related Documentation for Cisco Nexus 5600 Series NX-OS Software, page vi](#)
- [Documentation Feedback, page viii](#)
- [Obtaining Documentation and Submitting a Service Request, page viii](#)

Audience

This publication is for network administrators who configure and maintain Cisco Nexus devices and Cisco Nexus 2000 Series Fabric Extenders.

Document Conventions

Command descriptions use the following conventions:

Convention	Description
bold	Bold text indicates the commands and keywords that you enter literally as shown.
<i>Italic</i>	Italic text indicates arguments for which the user supplies the values.
[x]	Square brackets enclose an optional element (keyword or argument).
[x y]	Square brackets enclosing keywords or arguments separated by a vertical bar indicate an optional choice.
{x y}	Braces enclosing keywords or arguments separated by a vertical bar indicate a required choice.

Convention	Description
[x {y z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
<i>variable</i>	Indicates a variable for which you supply values, in context where italics cannot be used.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Examples use the following conventions:

Convention	Description
<code>screen font</code>	Terminal sessions and information the switch displays are in screen font.
<code>boldface screen font</code>	Information you must enter is in boldface screen font.
<i><code>italic screen font</code></i>	Arguments for which you supply values are in italic screen font.
<>	Nonprinting characters, such as passwords, are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

This document uses the following conventions:



Note

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.



Caution

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

Related Documentation for Cisco Nexus 5600 Series NX-OS Software

The entire Cisco NX-OS 5600 Series documentation set is available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-5000-series-switches/tsd-products-support-series-home.html>

Release Notes

The release notes are available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-5000-series-switches/products-release-notes-list.html>

Configuration Guides

These guides are available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-5000-series-switches/products-installation-and-configuration-guides-list.html>

The documents in this category include:

- *Cisco Nexus 5600 Series NX-OS Adapter-FEX Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS FabricPath Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS Fibre Channel over Ethernet Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS Fundamentals Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS Interfaces Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS Layer 2 Switching Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS Multicast Routing Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS Quality of Service Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS SAN Switching Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS Security Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS System Management Configuration Guide*
- *Cisco Nexus 5600 Series NX-OS Unicast Routing Configuration Guide*

Licensing Guide

The *License and Copyright Information for Cisco NX-OS Software* is available at http://www.cisco.com/en/US/docs/switches/datacenter/sw/4_0/nx-os/license_agreement/nx-ossw_lisns.html.

Command References

These guides are available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-5000-series-switches/products-command-reference-list.html>

The documents in this category include:

- *Cisco Nexus 5600 Series NX-OS Fabric Extender Command Reference*
- *Cisco Nexus 5600 Series NX-OS FabricPath Command Reference*
- *Cisco Nexus 5600 Series NX-OS Fibre Channel Command Reference*

- *Cisco Nexus 5600 Series NX-OS Fundamentals Command Reference*
- *Cisco Nexus 5600 Series NX-OS Interfaces Command Reference*
- *Cisco Nexus 5600 Series NX-OS Layer 2 Interfaces Command Reference*
- *Cisco Nexus 5600 Series NX-OS Multicast Routing Command Reference*
- *Cisco Nexus 5600 Series NX-OS QoS Command Reference*
- *Cisco Nexus 5600 Series NX-OS Security Command Reference*
- *Cisco Nexus 5600 Series NX-OS System Management Command Reference*
- *Cisco Nexus 5600 Series NX-OS TrustSec Command Reference*
- *Cisco Nexus 5600 Series NX-OS Unicast Routing Command Reference*
- *Cisco Nexus 5600 Series NX-OS Virtual Port Channel Command Reference*

Error and System Messages

The *Cisco Nexus 5600 Series NX-OS System Message Guide* is available at http://www.cisco.com/en/US/docs/switches/datacenter/nexus5500/sw/system_messages/reference/sl_nxos_book.html.

Troubleshooting Guide

The *Cisco Nexus 5600 Series NX-OS Troubleshooting Guide* is available at <http://www.cisco.com/c/en/us/support/switches/nexus-5000-series-switches/products-troubleshooting-guides-list.html>.

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to: ciscodfa-docfeedback@cisco.com.

We appreciate your feedback.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation*, at: <http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

Subscribe to *What's New in Cisco Product Documentation*, which lists all new and revised Cisco technical documentation as an RSS feed and delivers content directly to your desktop using a reader application. The RSS feeds are a free service.



Virtual Machine Tracker Overview

This chapter contains the following sections:

- [Information About Virtual Machine Tracker, page 1](#)
- [Virtual Machine Tracker and VMware vCenter, page 2](#)

Information About Virtual Machine Tracker

The growing adoption of server virtualization technologies has added to network configuration requirements. Virtual Machines (VMs) on a single physical server can belong to different Layer 2 domains and can require the Cisco Nexus device to provision multiple VLANs on the ports that connect to the physical servers. To provide seamless movement of VMs from one physical server to another, the servers must be reachable through the same Layer 2 domain so that the VMs can retain their IP addresses and network connectivity even after moving. A static predefined configuration requires provisioning of all possible VLANs that can be used by VMs in a server management domain on each port of the switch. This process can result in more logical port-based VLANs than the switch can support. Alternatively, you can dynamically provision VLANs on a Cisco Nexus device Layer 2 Ethernet or Layer 2 port-channel interface (attached to a server) based on the tracking of the VMs that are connected to the port and the VLAN requirements of these VMs.

Virtual Machine Tracker (VM Tracker) enables you to do the following:

- Identify the Cisco Nexus device port that is used for each VM
- Identify the VLAN requirements of each VM
- Track the movement of VMs from one host (ESXi) to another
- Track VM configuration changes such as additions, deletions, or modifications of VLANs, and configure VLANs on Cisco Nexus device ports accordingly
- Track the additions or deletions of VMs and hosts, and configure VLANs on Cisco Nexus device ports accordingly
- Track whether the VMs are in the power on or power off state, and configure VLANs on local Cisco Nexus device ports for a VM only if the VM is in the power on state

Virtual Machine Tracker and VMware vCenter

VM Tracker connects with VMware vCenter and collects information about the VMs that are running on each host. This information includes the number of VMs that are running on connected to the host and the Cisco Nexus device through which the VM receives network traffic.

After you enable VM Tracker on the switch, it automatically extracts the following information about VMs from vCenter:

- The host on which the VMs exist.
- The Cisco Nexus device ports through which the VM traffic flows.
- The virtual network interface card (vNIC) that connects the VM to a virtual switch.
- The power state of the VM.
- The VLAN information of port groups or distributed virtual switch (DVS) port groups.
- The port groups or DVS port groups that are required for the VM.



Configuring Virtual Machine Tracker

This chapter contains the following sections:

- [Information About Virtual Machine Tracker, page 3](#)
- [Licensing Requirements for the Virtual Machine Tracker, page 4](#)
- [Enabling Virtual Machine Tracker, page 4](#)
- [Creating a New Connection to vCenter, page 5](#)
- [Synchronizing Information with VMware vCenter, page 5](#)
- [Verifying the Virtual Machine Tracker Configuration, page 6](#)
- [Enabling Virtual Machine Tracker on Specific Interfaces, page 7](#)
- [Configuring Dynamic VLAN Creation, page 7](#)
- [Example Configuration for Virtual Machine Tracker, page 9](#)

Information About Virtual Machine Tracker

Guidelines and Limitations for VM Tracker

VM Tracker has the following guidelines and limitations:

- VM Tracker supports up to four vCenter connections.
- VM Tracker supports high availability and the fault tolerance features of vCenter.
- VM Tracker supports up to 64 VMs per host.
- VM Tracker supports up to 230 hosts across all vCenters.
- VM Tracker supports up to 600 VLANs.
- VM Tracker supports only 507 VLANs in Per VLAN Rapid Spanning Tree (PVRST) mode due to hardware limitations. To enable more than 507 VLANs, use Multiple Spanning Tree (MST).
- VM Tracker supports ESXi 5.1 and ESXi 5.5.

- The current version of VM Tracker supports only VMware orchestration. It does not support orchestration with other hypervisors.
- Starting with Cisco NX-OS release 7.2(0)N1(1), Link Layer Discovery Protocol (LLDP) is supported.
- For all ports on which VM Tracker is enabled, you must not perform any Layer 2 or Layer 3 configuration that is related to switchports and VLANs. However, you can update the native VLAN.
- VM Tracker does not support VLAN 4095.
- You must connect the host directly to the Cisco Nexus device ports, including the FEX ports. Blade servers are not supported.
- If you do not specify the virtual routing and forwarding (VRF) while configuring the remote IP address, the management VRF is used.
- For vCenter version 5.1 and 5.5, the CDP information can contain a maximum of 32 characters for the name of the switch. If the name of the switch exceeds 32 characters, VM Tracker will not work.

Licensing Requirements for the Virtual Machine Tracker

No license is required for this feature.

Enabling Virtual Machine Tracker

By default, the VM Tracker feature is enabled on all interfaces.

Procedure

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# [no] feature vmtracker	Enables the VM Tracker feature on all interfaces. The no form of the command disables the VM Tracker feature on all interfaces.

This example shows how to enable VM Tracker:

```
switch# configure terminal
switch(config)# feature vmtracker
switch(config)#
```

Creating a New Connection to vCenter

Procedure

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# [no] vmtracker connection connection-name	Enters VM Tracker connection configuration mode for the connection name specified. The no form of the command disables the connection.
Step 3	switch(config-vmt-conn)# [no] remote {ip address ip_address port port_number vrf vrf_name}	Configures remote IP parameters. The default value for <i>port_number</i> is 80. If <i>vrf_name</i> is not specified, the default value is management .
Step 4	switch(config-vmt-conn)# username username password password	Verifies the username and password to connect to vCenter.
Step 5	switch(config-vmt-conn)# [no] connect	Connects to vCenter. The no form of the command disconnects VM Tracker from vCenter.

This example shows how to create a new connection to VMware vCenter:

```
switch# configure terminal
switch(config)# vmtracker connection conn1
switch(config-vmt-conn)# remote ip address 20.1.1.1 port 80 vrf management
switch(config-vmt-conn)# username user1 password abc1234
switch(config-vmt-conn)# connect
```

Synchronizing Information with VMware vCenter

By default, VM Tracker tracks all asynchronous events from VMware vCenter and updates the switchport configuration immediately. Optionally, you can also configure a synchronizing mechanism that synchronizes all host, VM, and port group information automatically with VMware vCenter at a specified interval.

Command	Purpose
[no] set interval find-new-host val	Sets the interval, in seconds, for finding hosts that are newly connected to vCenter. The no form of the command disables the previously configured interval. The default duration is 3600 seconds.

Command	Purpose
<code>[no] set interval sync-full-info val</code>	Sets the interval, in seconds, for synchronizing all host, VM, and port group related information with vCenter. The no form of the command disables the previously configured interval. The default duration is 3600 seconds.
<code>vmtracker connection connection-name refresh</code>	Synchronizes all host, VM, and port group related information with vCenter immediately for the specified connection.

This example shows how to set an interval for finding hosts that are newly connected to vCenter:

```
switch(config-vmt-conn)# set interval find-new-host 300
```

This example shows how to set an interval for synchronizing all host, VM, and port group information with vCenter:

```
switch(config-vmt-conn)# set interval sync-full-info 120
```

This example shows how to immediately synchronize all host, VM, and port group information with vCenter:

```
switch(config-vmt-conn)# vmtracker connection conn1 refresh
```

Verifying the Virtual Machine Tracker Configuration

Use the following commands to display and verify VM Tracker configuration information:

Command	Purpose
<code>show running-config vmtracker [all]</code>	Displays the VM Tracker configuration.
<code>show vmtracker [connection conn_name] {{info [interface intf_id]{summary detail host vm port-group}} event-history}</code>	Displays the VM Tracker configuration based on the following: <ul style="list-style-type: none"> • Connection • Interface • Event history
<code>show vmtracker [connection conn_name] status</code>	Displays the IP address and connection status of the vCenter connection specified.
<code>show logging level vmtracker</code>	Displays the logging level of the syslog messages for VM Tracker.
<code>show system internal vmtracker info all</code>	Displays the complete configuration information of VM Tracker.

Enabling Virtual Machine Tracker on Specific Interfaces

When VM Tracker is enabled by using the **[no] feature vmtracker** command, it is enabled on all interfaces by default. You can optionally disable and enable it on specific interfaces by using the **[no] vmtracker enable** command.

Procedure

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# interface type slot/port	Enters the interface configuration mode for the specified interface.
Step 3	switch(config-if)# [no] vmtracker enable	Enables the VM Tracker feature on the specified interface. The no form of the command disables the VM Tracker feature on the specified interface.

This example shows how to enable VM Tracker on a specified interface:

```
switch# configure terminal
switch(config)# interface ethernet 1/1
switch(config-if)# vmtracker enable
```

Configuring Dynamic VLAN Creation

Enabling Dynamic VLAN Creation

Dynamic creation and deletion of VLANs globally is enabled by default. When dynamic VLAN creation is enabled, if a VM is moved from one host to another and the VLAN required for this VM does not exist on the switch, the required VLAN is automatically created on the switch. You can also disable this capability. However, if you disable dynamic VLAN creation, you must manually create all the required VLANs.

Before You Begin

Ensure that the VM Tracker feature is enabled.

Procedure

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# vmtracker connection connection-name	Enters VM Tracker connection configuration mode for the connection name specified.

	Command or Action	Purpose
Step 3	switch(config-vmt-conn)# [no] autovlan enable	Enables dynamic VLAN creation and deletion. The no form of the command disables dynamic VLAN creation and deletion.

This example shows how to enable dynamic VLAN creation:

```
switch# configure terminal
switch(config)# vmtracker connection conn1
switch(config-vmt-conn)# autovlan enable
```

Configuring an Allowed VLAN List

By default, all VLANs can be configured dynamically on interfaces. You can also define a restricted list of such VLANs.

Before You Begin

Ensure that the VM Tracker feature is enabled.

Procedure

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# vmtracker connection connection-name	Enters VM Tracker connection configuration mode for the connection name specified.
Step 3	switch(config-vmt-conn)# allowed-vlans {allow-vlans add add-vlans except except-vlans remove remove-vlans all}	Configures a list of VLANs that can be dynamically configured on interfaces.

This example shows how to configure a list of allowed VLANs:

```
switch# configure terminal
switch(config)# vmtracker connection test
switch(config-vmt-conn)# allowed-vlans 100-101
```

Removing an Allowed VLAN List

Procedure

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.

	Command or Action	Purpose
Step 2	switch(config)# vmtracker connection <i>connection-name</i>	Denotes the vSphere connection.
Step 3	switch(config-vmt-conn)# default allowed-vlans	Removes allowed VLANs.

This example shows how to remove an allowed VLAN list:

```
switch# configure terminal
switch(config)# vmtracker connection test
switch(config-vmt-conn)# default allowed-vlans
```

Example Configuration for Virtual Machine Tracker

This example shows how to create a connection with vCenter:

```
switch# configure terminal
switch(config)# feature vmtracker
switch(config)# vmtracker connection test
switch(config-vmt-conn)# remote ip address 20.1.1.1 port 80 vrf management
switch(config-vmt-conn)# username user1 password abc@123
switch(config-vmt-conn)# connect
switch(config-vmt-conn)# show vmtracker status
```

```
Connection          Host/IP              status
-----
vc1                  22.0.1.251          No Connect
vc2                  22.0.1.247          Connected
```

```
switch# show vmtracker connection vc2 status
```

```
Connection          Host/IP              status
-----
vc2                  22.0.1.247          Connected
```

```
switch# show running-config vmtracker
```

```
!Command: show running-config vmtracker
!Time: Thu Oct 9 18:04:10 2014
```

```
version 7.1(0)N1(1)
feature vmtracker
```

```
vmtracker connection vc1
  remote ip address 22.0.1.251
  username administrator password 5 00r1Uinh
  no autovlan enable
  connect
```

```
switch# show running-config vmtracker all
```

```
!Command: show running-config vmtracker all
!Time: Thu Oct 9 18:10:00 2014
```

```
version 7.1(0)N1(1)
feature vmtracker
```

```
vmtracker connection vc1
  set interval pending-task-polling 2
  set interval sync-full-info 3600
  set interval find-new-host 3600
  remote ip address 22.0.1.251 port 80 vrf management
```

```

username administrator password 5 00rlUinh
no autovlan enable
allowed-vlans all
connect

switch# show running-config interface port-channel 301

!Command: show running-config interface port-channel301
!Time: Thu Oct 9 18:06:23 2014

version 7.1(0)N1(1)

interface port-channel301
 switchport mode trunk
 switchport trunk allowed vlan 1,1001,1005
 vpc 301

switch# show vmtracker event-history

-----
Event History (Conn:vc2 NumEv:439 IP:22.0.1.247)
-----
EventId      Time                               Event Msg
-----
12505      Oct 09 2014 17:14:32:475968    Removed TCLI 102 28 on 22.0.2.102 from
first-dc
12504      Oct 09 2014 17:14:32:475958    Removed TCLI 102 29 on 22.0.2.102 from
first-dc
12501      Oct 09 2014 17:14:31:535716    Removed TCLI 102 26 on 22.0.2.102 from
first-dc
12500      Oct 09 2014 17:14:31:535711    Removed TCLI 102 27 on 22.0.2.102 from
first-dc

switch# show logging level vmtracker

Facility          Default Severity      Current Session Severity
-----
vmtracker          2                      7

0(emergencies)    1(alerts)              2(critical)
3(errors)         4(warnings)            5(notifications)
6(information)    7(debugging)

!How to disconnect from vcenter

switch# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# vmtracker connection vc2
switch(config-vmt-conn)# no connect

switch# show vmtracker connection vc2 status

Connection          Host/IP                status
-----
vc2                  22.0.1.247            No Connect

switch# show running-config interface port-channel 301

!Command: show running-config interface port-channel301
!Time: Thu Oct 9 18:17:04 2014

version 7.1(0)N1(1)

interface port-channel301
 switchport mode trunk
 switchport trunk allowed vlan 1
 vpc 301

switch# show vmtracker info host

```

```
Switch: FOC1721R0UG
=====
```

Interface	Host	VMNIC
port-channel201	22.0.2.3	vmnic0

```
Switch: FOC1736R028
=====
```

Interface	Host	VMNIC
port-channel201	22.0.2.3	vmnic1
port-channel203	22.0.2.1	vmnic1
port-channel202	22.0.2.3	vmnic2

```
switch# show vmtracker info vm
```

```
Switch: FOC1721R0UG
=====
```

Interface	VM	State
port-channel201	ubuntu server 1	on
port-channel201	win7 1	on

```
Switch: FOC1736R028
=====
```

Interface	VM	State
port-channel201	ubuntu server 1	on
port-channel201	win7 1	on
port-channel203	TCL Inst 2.1 11	on
port-channel203	TCL Inst 2.1 12	on
port-channel202	TCL Inst 2.3 10	on
port-channel202	TCL Inst 2.3 8	off
port-channel202	TCL Inst 2.3 9	off

```
switch# show vmtracker info summary
```

```
Switch: FOC1721R0UG
=====
```

Interface	VM	VLANs
port-channel201	ubuntu server 1	91
port-channel201	win7 1	91

```
Switch: FOC1736R028
=====
```

Interface	VM	VLANs
port-channel201	ubuntu server 1	91
port-channel201	win7 1	91
port-channel203	TCL Inst 2.1 11	93
port-channel203	TCL Inst 2.1 12	93
port-channel202	TCL Inst 2.3 10	97
port-channel202	TCL Inst 2.3 8	97
port-channel202	TCL Inst 2.3 9	97

```
switch# sh vmtracker info port-group
```

```
Switch: FOC1721R0UG
=====
```

Interface	PortGroup	Type	VLANs
port-channel201	VM Network 3 vpc po	vSwitch	91
port-channel201	VM Network 3 vpc po	vSwitch	91

```
Switch: FOC1736R028
```

```

=====
-----
Interface                PortGroup                Type                VLANs
-----
port-channel201          VM Network 3 vpc po     vSwitch            91
port-channel201          VM Network 3 vpc po     vSwitch            91
port-channel203          VM Network 200 2lvpc AA-FEX vSwitch            93
port-channel203          VM Network 200 2lvpc AA-FEX vSwitch            93
port-channel202          VM Network 4 AA FEX HIF PO vSwitch            97
port-channel202          VM Network 4 AA FEX HIF PO vSwitch            97
port-channel202          VM Network 4 AA FEX HIF PO vSwitch            97
-----

```

```
switch# show vmtracker info detail
```

```
Switch: FOC1721R0UG
```

```
=====
```

```

-----
Interface                Host                VMNIC  VM                State PortGroup
-----
port-channel201          22.0.2.3            vmnic0 ubuntu server 1  on  VM Network
3 vpc po                91
port-channel201          22.0.2.3            vmnic0 win7 1      on  VM Network
3 vpc po                91
Switch: FOC1736R028
=====

```

```

-----
Interface                Host                VMNIC  VM                State PortGroup
-----
port-channel201          22.0.2.3            vmnic1 ubuntu server 1  on  VM Network
3 vpc po                91
port-channel201          22.0.2.3            vmnic1 win7 1      on  VM Network
3 vpc po                91
port-channel203          22.0.2.1            vmnic1 TCL Inst 2.1 11 on  VM Network
200 2lvpc AA-FEX        93
port-channel203          22.0.2.1            vmnic1 TCL Inst 2.1 12 on  VM Network
200 2lvpc AA-FEX        93
port-channel202          22.0.2.3            vmnic2 TCL Inst 2.3 10 on  VM Network
4 AA FEX HIF PO        97
port-channel202          22.0.2.3            vmnic2 TCL Inst 2.3 8  off VM Network
4 AA FEX HIF PO        97
port-channel202          22.0.2.3            vmnic2 TCL Inst 2.3 9  off VM Network
4 AA FEX HIF PO        97
-----

```

```
switch# show system internal vmtracker info all
```

```
VM-Interface Mapping (Device:50:87:89:a1:f0:de)
```

```

-----
Interface                Host                VMNIC  VM                State PortGroup  VLAN-Range
-----
port-channel12           10.193.174.213     vmnic7 Site-1-Hos on    dvPortGrou 1-100
port-channel12           10.193.174.213     vmnic7 Site-1-Hos on    dvPortGrou 1-100
VM-Interface Mapping (Device:50:87:89:a1:f0:df)
-----

```

```

-----
Interface                Host                VMNIC  VM                State PortGroup  VLAN-Range
-----
port-channel13           10.193.174.214     vmnic7 Site-1-Hos on    dvPortGrou 1-100
port-channel13           10.193.174.214     vmnic7 Site-1-Hos on    dvPortGrou 1-100
VM-Interface Mapping (Device:50:87:89:a1:f0:e1)
-----

```

```

-----
Interface                Host                VMNIC  VM                State PortGroup  VLAN-Range
-----
-----

```

```
Host VM Info (Conn:conn1 IP:10.193.174.215)
```

```

-----
Host                VM                State  PortGroup
-----
10.193.174.213     Site-1-Host-1-VM-1-Ubuntu on     VM Network
10.193.174.213     Site-1-Host-1-VM-1-Ubuntu on     dvPortGroup
10.193.174.213     Site-1-Host-1-VM-10-Ubunt on     VM Network
-----

```

```

10.193.174.213 Site-1-Host-1-VM-2-Ubuntu on VM Network
10.193.174.213 Site-1-Host-1-VM-2-Ubuntu on dvPortGroup
10.193.174.213 Site-1-Host-1-VM-3-Ubuntu on VM Network
10.193.174.213 Site-1-Host-1-VM-4-Ubuntu on VM Network
10.193.174.213 Site-1-Host-1-VM-5-Ubuntu on VM Network
10.193.174.213 Site-1-Host-1-VM-6-Ubuntu on VM Network
10.193.174.213 Site-1-Host-1-VM-7-Ubuntu on VM Network
10.193.174.213 Site-1-Host-1-VM-8-Ubuntu on VM Network
10.193.174.213 Site-1-Host-1-VM-9-Ubuntu on VM Network
10.193.174.213 Site-1-vCenter-Server on VM Network
10.193.174.214 Site-1-Host-2-VM-1-Ubuntu on VM Network
10.193.174.214 Site-1-Host-2-VM-1-Ubuntu on dvPortGroup
10.193.174.214 Site-1-Host-2-VM-2-Ubuntu on VM Network
10.193.174.214 Site-1-Host-2-VM-2-Ubuntu on dvPortGroup
10.193.174.214 Site-1-Host-2-VM-3-Ubuntu on VM Network
10.193.174.214 Site-1-Host-2-VM-4-Ubuntu on VM Network
10.193.174.214 Site-1-Host-2-VM-5-Ubuntu on VM Network
10.193.174.214 Site-1-Host-2-VM-6-Ubuntu on VM Network
10.193.174.214 Site-1-Host-2-VM-7-Ubuntu on VM Network
10.193.174.214 Site-1-Host-2-VM-8-Ubuntu on VM Network
    
```

Host CDP Info (Conn:conn1 IP:10.193.174.215)

Host	Switch	Port	VMNIC	Status
------	--------	------	-------	--------

Host LLDP Info (Conn:conn1 IP:10.193.174.215)

Host	Switch	Port	VMNIC	Status
10.193.174.213	50:87:89:a1:f0:df	Ethernet1/2	vmnic5	connected
10.193.174.213	50:87:89:a1:f0:de	Ethernet1/1	vmnic7	connected
10.193.174.214	50:87:89:a1:f0:e1	Ethernet1/4	vmnic5	connected
10.193.174.214	50:87:89:a1:f0:e0	Ethernet1/3	vmnic7	connected

Host vSwitch Port Group Info (Conn:conn1 IP:10.193.174.215)

Host	vSwitch	PortGroup
10.193.174.213	vSwitch0	Management Network
10.193.174.213	vSwitch0	VM Network
10.193.174.214	vSwitch0	Management Network
10.193.174.214	vSwitch0	VM Network

Host vSwitch VMNIC Info (Conn:conn1 IP:10.193.174.215)

Host	vSwitch	VMNIC
10.193.174.213	vSwitch0	vmnic6
10.193.174.214	vSwitch0	vmnic6

Host DVS Switch Port Group Info (Conn:conn1 IP:10.193.174.215)

Host	DVS-Name	PortGroup	Vlan-Range
10.193.174.213	dvSwitch-1-Site-1	dvPortGroup	1-100
10.193.174.213	dvSwitch-1-Site-1	dvSwitch-1-Site--DVUplinks-464	1-100
10.193.174.214	dvSwitch-1-Site-1	dvPortGroup	1-100
10.193.174.214	dvSwitch-1-Site-1	dvSwitch-1-Site--DVUplinks-464	1-100

Host DVS Switch VMNIC Info (Conn:conn1 IP:10.193.174.215)

Host	DVS-Name	VMNIC
10.193.174.213	dvSwitch-1-Site-1	vmnic3
10.193.174.213	dvSwitch-1-Site-1	vmnic4
10.193.174.213	dvSwitch-1-Site-1	vmnic5

Example Configuration for Virtual Machine Tracker

```

10.193.174.213      dvSwitch-1-Site-1      vmnic7
10.193.174.214      dvSwitch-1-Site-1      vmnic3
10.193.174.214      dvSwitch-1-Site-1      vmnic4
10.193.174.214      dvSwitch-1-Site-1      vmnic5
10.193.174.214      dvSwitch-1-Site-1      vmnic7

```

```
-----
Host Port Group Info (Conn:conn1 IP:10.193.174.215)
-----
```

Host	PortGroup	VLAN
10.193.174.213	Management Network	0
10.193.174.213	VM Network	0
10.193.174.214	Management Network	0
10.193.174.214	VM Network	0

```
-----
Distributed Switch Info (Conn:conn1 IP:10.193.174.215)
-----
```

DVS Name	PortGroup	VLAN Range
dvSwitch-1-Site-1	dvPortGroup	1-100
dvSwitch-1-Site-1	dvSwitch-1-Site--DVUplink	1-100
dvSwitch2	dvPortGroup	12-12
dvSwitch2	dvSwitch2-DVUplinks-221	0-4094

```
-----
Event History (Conn:conn1 NumEv:6 IP:10.193.174.215)
-----
```

EventId	Time	Event Msg
19631	Sep 02 2014 11:34:53:799161	Network connectivity restored on DVPor ts: "2/00 d1 2c 50 0c d6 4c f6-48 6e 3 c 4b b0 13 83 bf". Physical NIC vmnic5 is up.
19630	Sep 02 2014 11:34:52:890965	Physical NIC vmnic5 linkstate is up.
19624	Sep 02 2014 11:31:17:453523	Network connectivity restored on DVPor ts: "2/00 d1 2c 50 0c d6 4c f6-48 6e 3 c 4b b0 13 83 bf". Physical NIC vmnic5 is up.
19618	Sep 02 2014 01:44:08:66653	Network connectivity restored on DVPor ts: "2/00 d1 2c 50 0c d6 4c f6-48 6e 3 c 4b b0 13 83 bf". Physical NIC vmnic5 is up.
19612	Sep 02 2014 01:32:04:930919	Network connectivity restored on DVPor ts: "2/00 d1 2c 50 0c d6 4c f6-48 6e 3 c 4b b0 13 83 bf". Physical NIC vmnic5 is up.
19611	Sep 02 2014 01:32:04:930862	Physical NIC vmnic5 linkstate is up.

```
-----
Time Info (Conn:conn1 IP:10.193.174.215)
-----
```

Type	Time (ms)
Total Fetching Time for All Host	: 660
Total Fetching Time for All DVS	: 112
Max Time to Sync Full Host Info	: 57882
Max Time to Sync vShield Info	: 0
Max Time to Check unconnected Host Info	: 3091
Max Time to Sync Host Info	: 15162
Max Time to get one Host info	: 3152
Max Time to get one Virtual Machine info	: 3080
Max Time to get one CDP info	: 3102
Max Time to get VM port group Info	: 3580
Max Time to get task info	: 0
Max Time to process recv event	: 0
Max Time to get dvs info	: 3021
Max Time to get dvs port group info	: 3043

```
-----
Counters Info (Conn:conn1 IP:10.193.174.215)
-----
```

Type	Counter
Property Retrieval Fail	: 0
Wait for Update Fail	: 0
Wait for Update Timeout	: 7157
Create Task Collector Fail	: 0
Create Event Collector Fail	: 0
Create Event Filter Fail	: 0
CDP Info Retrieval Fail	: 0
Connect to vCenter Fail	: 0
SOAP Memory Alloc Fail	: 0
Num Datacenter Property Retrieval	: 88
Num Connection Verification	: 2227
Num Host Property Retrieval	: 1311
Num VM Property Retrieval	: 11267
Num CDP/LLDP Info Retrieval	: 1248
Num Task Info Retrieval	: 0
Num DVS Info Retrieval	: 1228
Num DVS PG Info Retrieval	: 2456
Num Switch Info Retrieval	: 0
Num Interface Configuration Time	: 0
Num of VLAN Creation Time	: 0
Num of VLAN Removal Time	: 0
Wait for Update Success	: 10
Num Recv Event VmPoweredOnEvent	: 0
Num Recv Event VmPoweredOffEvent	: 0
Num Recv Event VmBeingHotMigratedEvent	: 0
Num Recv Event VmMigratedEvent	: 0
Num Recv Event VmFailedMigrateEvent	: 0
Num Recv Event VmReconfiguredEvent	: 0
Num Recv Event VmCreatedEvent	: 0
Num Recv Event VmClonedEvent	: 0
Num Recv Event VmRenamedEvent	: 0
Num Recv Event VmRemovedEvent	: 0
Num Recv Event VmSuspendedEvent	: 0
Num Recv Event VmRelocatedEvent	: 0
Num Recv Event TaskEvent	: 0
Num Recv Event EventEx	: 10
Num Recv Event HostConnectionLostEvent	: 0
Num Recv Event HostDisconnectedEvent	: 0
Num Recv Event HostConnectedEvent	: 0
Num Recv Event HostShutdownEvent	: 0
Num Recv Event HostRemovedEvent	: 0
Num Recv Event HostIpChangedEvent	: 0
Num Recv Event DVPortgroupCreatedEvent	: 0
Num Recv Event DVPortgroupReconfiguredEvent	: 0
Num Recv Event DVPortgroupDestroyedEvent	: 0
Num Recv Event DVPortgroupRenamedEvent	: 0
Num Recv Event DvsCreatedEvent	: 0
Num Recv Event DvsDestroyedEvent	: 0
Num Recv Event DvsRenamedEvent	: 0
Num Recv Event DvsReconfiguredEvent	: 0
Num Recv Event DvsMergedEvent	: 0
Num Recv Task UpdateNetworkConfig	: 0
Num Recv Task UpdatePortGroup	: 0
Num Recv Task RemovePortGroup	: 0
Num Recv Task UpdateVirtualSwitch	: 0

Global Counters Info

Type	Counter
Num Elem VMTrackerElemRoot	: 3
Num Elem VMTrackerElemConn	: 1
Num Elem VMTrackerCluster	: 0
Num Elem VMTrackerElemHost	: 3
Num Elem VMTrackerElemHostCDP	: 0
Num Elem VMTrackerElemHostLLDP	: 4
Num Elem VMTrackerElemHostVM	: 19
Num Elem VMTrackerElemHostVMPortGroup	: 23
Num Elem VMTrackerElemHostvSwitch	: 2
Num Elem VMTrackerElemHostvSwitchVMNIC	: 2

Example Configuration for Virtual Machine Tracker

```

Num Elem VMTrackerElemHostvSwitchPortGroup      : 4
Num Elem VMTrackerElemHostPortGroup             : 4
Num Elem VMTrackerElemHostDVSSwitch            : 2
Num Elem VMTrackerElemHostDVSSwitchVMNIC       : 8
Num Elem VMTrackerVirtWire_Type                : 0
Num Elem VMTrackerElemHostVirtWire             : 0
Num Elem VMTrackerElemHostVirtualNic           : 0
Num Elem VMTrackerElemDVS                      : 2
Num Elem VMTrackerElemDVSPortGroup             : 4
Num Elem VMTrackerElemDVSPortGroupVlanRange    : 4
Num Elem VMTrackerElemDeviceID                 : 4
Num Elem VMTrackerElemDevicePort               : 4
Num Elem VMTrackerElemDevicePortHost          : 4
Num Elem VMTrackerElemDevicePortVM            : 8
Num Elem VMTrackerElemDevicePortVMPortGroup    : 8
Num Elem VMTrackerElemDevicePortVMPortGroupVlanRange : 8
Num Elem VMTrackerElemSwitchDeviceID          : 2
Num Elem VMTrackerElemSwitchDeviceIntf        : 87
Num Elem VMTrackerElemIfRunTimeRoot           : 1
Num Elem VMTrackerElemIfDeviceId              : 4
Num Elem VMTrackerElemIfSwitchPort            : 4

```

```

-----
Unconnected Host Info (Conn:conn1 IP:10.193.174.215)
-----

```

```

Host Name
-----

```

```

172.23.40.129
-----

```

```

-----
Dev-Id          Intf          IfIndex      Member of PO      NativeVlan VMT Enable bia-mac
-----
SAL1819SALX    Ethernet1/1    1a000000    port-channel2    1          1
50:87:89:a1:f0:de
SAL1819SALX    Ethernet1/10   1a001200    1                1          1
50:87:89:a1:f0:e7
SAL1819SALX    Ethernet1/11   1a001400    1                1          1
50:87:89:a1:f0:e8
SAL1819SALX    Ethernet1/12   1a001600    1                1          1
50:87:89:a1:f0:e9
SAL1819SALX    Ethernet1/13   1a001800    1                1          1
50:87:89:a1:f0:ea
SAL1819SALX    Ethernet1/14   1a001a00    1                1          1
50:87:89:a1:f0:eb
SAL1819SALX    Ethernet1/15   1a001c00    1                1          1
50:87:89:a1:f0:ec
SAL1819SALX    Ethernet1/16   1a001e00    1                1          1
50:87:89:a1:f0:ed
SAL1819SALX    Ethernet1/17   1a002000    1                1          1
50:87:89:a1:f0:ee
SAL1819SALX    Ethernet1/18   1a002200    1                1          1
50:87:89:a1:f0:ef
SAL1819SALX    Ethernet1/19   1a002400    1                1          1
50:87:89:a1:f0:f0
SAL1819SALX    Ethernet1/2    1a000200    port-channel2    1          1
50:87:89:a1:f0:df
SAL1819SALX    Ethernet1/20   1a002600    1                1          1
50:87:89:a1:f0:f1
SAL1819SALX    Ethernet1/21   1a002800    1                1          1
50:87:89:a1:f0:f2
SAL1819SALX    Ethernet1/22   1a002a00    1                1          1
50:87:89:a1:f0:f3
SAL1819SALX    Ethernet1/23   1a002c00    1                1          1
50:87:89:a1:f0:f4
SAL1819SALX    Ethernet1/24   1a002e00    1                1          1
50:87:89:a1:f0:f5
SAL1819SALX    Ethernet1/25   1a003000    1                1          1
50:87:89:a1:f0:f6
SAL1819SALX    Ethernet1/26   1a003200    1                1          1
50:87:89:a1:f0:f7
SAL1819SALX    Ethernet1/27   1a003400    1                1          1
50:87:89:a1:f0:f8

```


SAL1819SALX	Ethernet1/28	1a003600		1	1
50:87:89:a1:f0:f9					
SAL1819SALX	Ethernet1/29	1a003800		1	1
50:87:89:a1:f0:fa					
SAL1819SALX	Ethernet1/3	1a000400	port-channel3	1	1
50:87:89:a1:f0:e0					
SAL1819SALX	Ethernet1/30	1a003a00		1	1
50:87:89:a1:f0:fb					
SAL1819SALX	Ethernet1/31	1a003c00		1	1
50:87:89:a1:f0:fc					
SAL1819SALX	Ethernet1/32	1a003e00		1	1
50:87:89:a1:f0:fd					
SAL1819SALX	Ethernet1/33	1a004000		1	1
50:87:89:a1:f0:fe					
SAL1819SALX	Ethernet1/34	1a004200		1	1
50:87:89:a1:f0:ff					
SAL1819SALX	Ethernet1/35	1a004400		1	1
50:87:89:a1:f1:00					
SAL1819SALX	Ethernet1/36	1a004600		1	1
50:87:89:a1:f1:01					
SAL1819SALX	Ethernet1/37	1a004800		1	1
50:87:89:a1:f1:02					
SAL1819SALX	Ethernet1/38	1a004a00		1	1
50:87:89:a1:f1:03					
SAL1819SALX	Ethernet1/39	1a004c00		1	1
50:87:89:a1:f1:04					
SAL1819SALX	Ethernet1/4	1a000600	port-channel3	1	1
50:87:89:a1:f0:e1					
SAL1819SALX	Ethernet1/40	1a004e00		1	1
50:87:89:a1:f1:05					
SAL1819SALX	Ethernet1/41	1a005000		1	1
50:87:89:a1:f1:06					
SAL1819SALX	Ethernet1/42	1a005200		1	1
50:87:89:a1:f1:07					
SAL1819SALX	Ethernet1/43	1a005400		1	1
50:87:89:a1:f1:08					
SAL1819SALX	Ethernet1/44	1a005600		1	1
50:87:89:a1:f1:09					
SAL1819SALX	Ethernet1/45	1a005800		1	1
50:87:89:a1:f1:0a					
SAL1819SALX	Ethernet1/46	1a005a00		1	1
50:87:89:a1:f1:0b					
SAL1819SALX	Ethernet1/47	1a005c00		1	1
50:87:89:a1:f1:0c					
SAL1819SALX	Ethernet1/48	1a005e00		1	1
50:87:89:a1:f1:0d					
SAL1819SALX	Ethernet1/5	1a000800		1	1
50:87:89:a1:f0:e2					
SAL1819SALX	Ethernet1/6	1a000a00		1	1
50:87:89:a1:f0:e3					
SAL1819SALX	Ethernet1/7	1a000c00		1	1
50:87:89:a1:f0:e4					
SAL1819SALX	Ethernet1/8	1a000e00		1	1
50:87:89:a1:f0:e5					
SAL1819SALX	Ethernet1/9	1a001000		1	1
50:87:89:a1:f0:e6					
SAL1819SALX	Ethernet2/1	1a006000		1	1
7c:69:f6:0f:eb:20					
SAL1819SALX	Ethernet2/10	1a007200		1	1
7c:69:f6:0f:eb:29					
SAL1819SALX	Ethernet2/11	1a007400		1	1
7c:69:f6:0f:eb:2a					
SAL1819SALX	Ethernet2/12	1a007600		1	1
7c:69:f6:0f:eb:2b					
SAL1819SALX	Ethernet2/2	1a006200	port-channel1	1	1
7c:69:f6:0f:eb:21					
SAL1819SALX	Ethernet2/3	1a006400	port-channel1	1	1
7c:69:f6:0f:eb:22					
SAL1819SALX	Ethernet2/4	1a006600	port-channel1	1	1
7c:69:f6:0f:eb:23					
SAL1819SALX	Ethernet2/5	1a006800	port-channel1	1	1
7c:69:f6:0f:eb:24					
SAL1819SALX	Ethernet2/6	1a006a00	port-channel1	1	1

Example Configuration for Virtual Machine Tracker

```

7c:69:f6:0f:eb:25
SAL1819SALX Ethernet2/7 1a006c00 1 1
7c:69:f6:0f:eb:26
SAL1819SALX Ethernet2/8 1a006e00 1 1
7c:69:f6:0f:eb:27
SAL1819SALX Ethernet2/9 1a007000 1 1
7c:69:f6:0f:eb:28
SAL1819SALX Vlan1 9010001 0 1
00:00:7c:3d:fe:09
SAL1819SALX Vlan2 9010002 0 1
00:00:7c:3d:fe:09
SAL1819SALX Vlan3 9010003 0 1
00:00:7c:3d:fe:09
SAL1819SALX Vlan4 9010004 0 1
00:00:7c:3d:fe:09
SAL1819SALX Vlan5 9010005 0 1
00:00:7c:3d:fe:09
SAL1819SALX Vlan6 9010006 0 1
00:00:7c:3d:fe:09
SAL1819SALX Vlan7 9010007 0 1
00:00:7c:3d:fe:09
SAL1819SALX Vlan8 9010008 0 1
00:00:7c:3d:fe:09
SAL1819SALX ii1/1/1 4a000000 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/10 4a000009 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/11 4a00000a 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/12 4a00000b 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/2 4a000001 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/3 4a000002 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/4 4a000003 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/5 4a000004 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/6 4a000005 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/7 4a000006 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/8 4a000007 0 1
00:00:00:00:00:00
SAL1819SALX ii1/1/9 4a000008 0 1
00:00:00:00:00:00
SAL1819SALX lc-eth0/1 6201000 0 1
00:00:7c:3d:fe:09
SAL1819SALX mgmt0 5000000 0 1

SAL1819SALX port-channel1 16000000 1 1
00:00:00:00:00:00
SAL1819SALX port-channel2 16000001 1 1
00:00:00:00:00:00
SAL1819SALX port-channel3 16000002 1 1
00:00:00:00:00:00
SAL1819SALX sup-eth0 15000000 0 1
00:00:7c:3d:fe:09
SAL1819SALX sup-eth1 15010000 0 1
00:00:00:00:00:00

```



INDEX

A

- auto VLAN configuration [8](#)
- auto VLAN creation [7](#)

C

- configuring dynamic VLANs [8](#)

D

- disabling VM Tracker on an interface [7](#)
- dynamic VLAN creation [7](#)

E

- enabling VM Tracker on an interface [7](#)

- example configuration [9](#)

G

- guidelines and limitations [3](#)

S

- Synchronizing host information [5](#)
- Synchronizing VM Tracker with vCenter [5](#)

V

- verifying VM Tracker configuration [6](#)
- Virtual Machine Tracker overview [1](#)
- VM Tracker, enabling [4](#)

