

Troubleshoot Active-Active NIC Teaming on ACI VMM Integration

Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Configure](#)

[Network Diagram](#)

[Verify](#)

[Troubleshoot](#)

[Related Information](#)

Introduction

This document describes how to identify an issue with the Active-Active configuration on VMM integration with ACI use LACP Load Based Teaming.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Link Agregation Control Protocol (LACP)
- Virtual Machine Monitor (VMM)
- Network Interface Control (NIC)
- Application Centric Infrastructure (ACI)

Components Used

This document is not restricted to specific software and hardware versions.

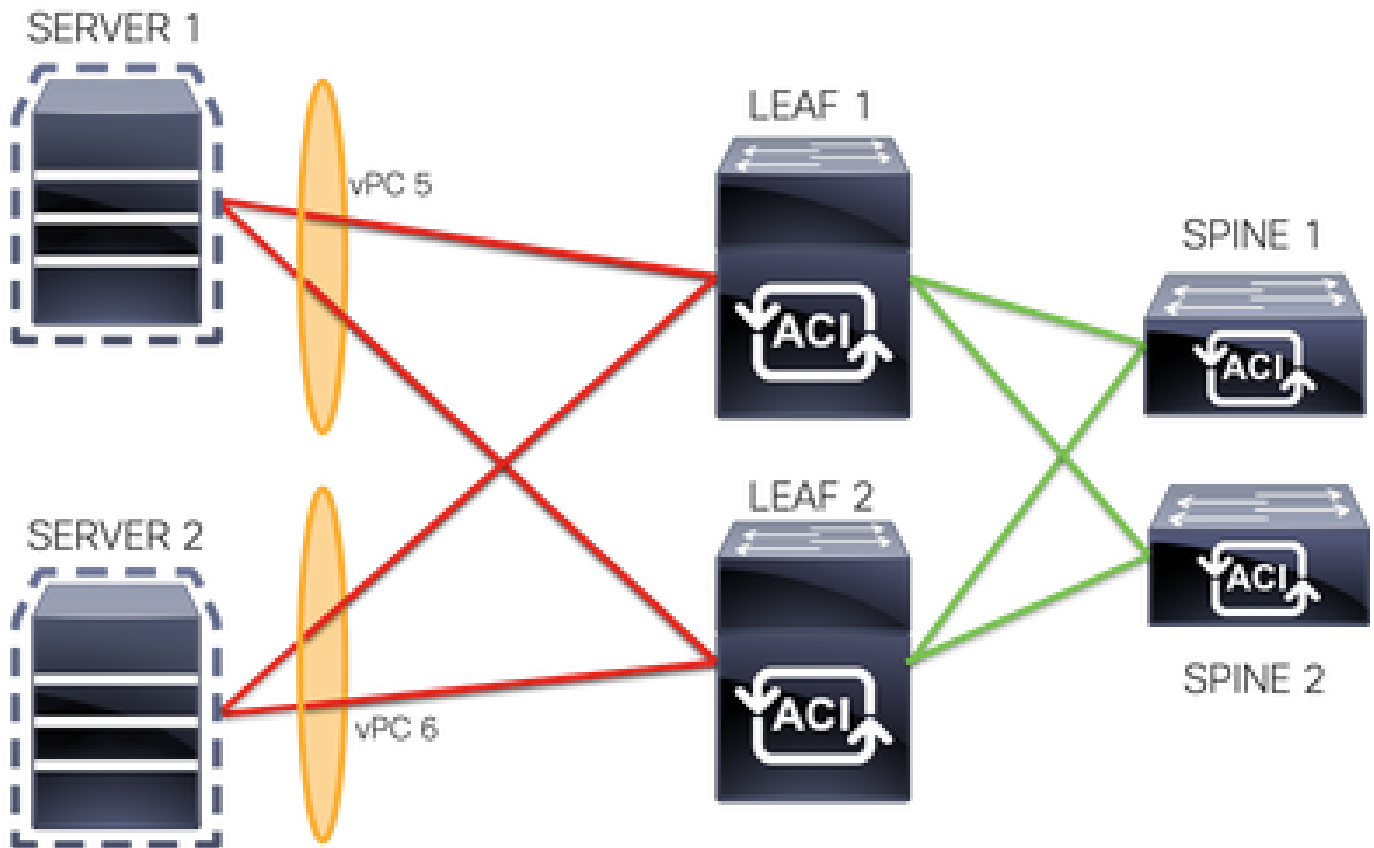
The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Configure

The network has configured an Active-Active LACP Load Based Teaming NIC on a VM configuration allowed on two servers and is connected to ACI on two different Leaves switches on a VMM integration.

Network Diagram

The next image is a high-level reference in order to illustrate the design.



vPC 5 members are Interface Eth 1/1 on Leaf 1 and Eth 1/2 on Leaf 2.

vPC 6 members are Interface Eth 1/3 on Leaf 1 and Eth 1/4 on Leaf 2.

VM IP: 10.10.10.1

VM MAC: AA.AA.AA.AA.AA.AA

Connections:

SERVER 1 NIC 1 <-> LEAF 1 Eth 1/1

SERVER 1 NIC 2 <-> LEAF 2 Eth 1/2

SERVER 2 NIC 1 <-> LEAF 1 Eth 1/3

SERVER 2 NIC 2 <-> LEAF 2 Eth 1/4

Verify

There is currently no verification procedure available for this configuration.

The [Cisco CLI Analyzer](#) (registered customers only) supports certain show commands. Use the Cisco CLI Analyzer in order to view an analysis of show command output.

Troubleshoot

This section provides the information you can use to troubleshoot your configuration.

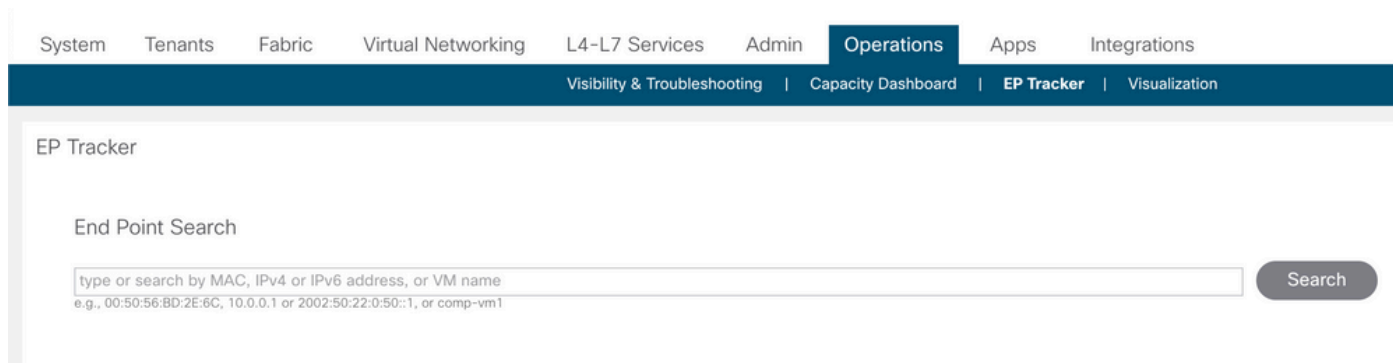
Navigate to the Endpoint Tracker (EP) tracker on the APIC GUI to track the IP for the server and review the attach/detach logs to identify the flap.

Step 1. Log in Cisco APIC GUI

Step 2. Navigate to **Operations** -> **EP Tracker**

Step 3. In the **End Point Search** area, input the IP address

Step 4. Click **Search**



Once a flap has been identified, the next step is to run the commands on each leaf switch.

```
<#root>
```

```
LEAF1#
```

```
show endpoint ip 10.10.10.1
```

Legend:

S - static s - arp L - local O - peer-attached
 V - vpc-attached a - local-aged p - peer-aged M - span
 B - bounce H - vtep R - peer-attached-r1 D - bounce-to-proxy
 E - shared-service m - svc-mgr

| VLAN/ Domain | Encap VLAN | MAC Address IP Address | MAC Info/ IP Info | Interface |
|-----------------|---------------|---------------------------|----------------------|-----------|
| 2 | vlan-100 | | | |

```
aaaa.aaaa.aaaa
```

```
LV                            po6  
common:common-VRF            vlan-100
```

```
10.10.10.1
```

```
LV                            po6
```

```
<#root>
```

```
LEAF2#
```

```
show endpoint ip 10.10.10.1
```

Legend:

S - static s - arp L - local O - peer-attached
 V - vpc-attached a - local-aged p - peer-aged M - span

B - bounce H - vtep R - peer-attached-r1 D - bounce-to-proxy
 E - shared-service m - svc-mgr

| VLAN/ Domain | Encap VLAN | MAC Address IP Address | MAC Info/ IP Info | Interface |
|-------------------------|-----------------|---------------------------|----------------------|-----------|
| 1 | vlan-100 | | | |
| aaaa.aaaa.aaaa | | | | |
| LV common:common-VRF | po6 vlan-100 | | | |
| 10.10.10.1 | | | | |
| LV | po6 | | | |

<#root>

LEAF1#

show port-channel summary

Flags: D - Down P - Up in port-channel (members)
 I - Individual H - Hot-standby (LACP only)
 s - Suspended r - Module-removed
 b - BFD Session Wait
 S - Switched R - Routed
 U - Up (port-channel)
 M - Not in use. Min-links not met
 F - Configuration failed

| Group | Port-Channel | Type | Protocol | Member Ports |
|-------|--------------|------|----------|--------------|
| 5 | Po5(SU) | Eth | LACP | Eth1/1(P) |
| 6 | Po6(SU) | Eth | LACP | Eth1/3(P) |

<#root>

LEAF2#

show port-channel summary

Flags: D - Down P - Up in port-channel (members)
 I - Individual H - Hot-standby (LACP only)
 s - Suspended r - Module-removed
 b - BFD Session Wait
 S - Switched R - Routed
 U - Up (port-channel)
 M - Not in use. Min-links not met
 F - Configuration failed

| Group | Port-Channel | Type | Protocol | Member Ports |
|-------|--------------|------|----------|--------------|
| 5 | Po5(SU) | Eth | LACP | Eth1/2(P) |
| 6 | Po6(SU) | Eth | LACP | Eth1/4(P) |

