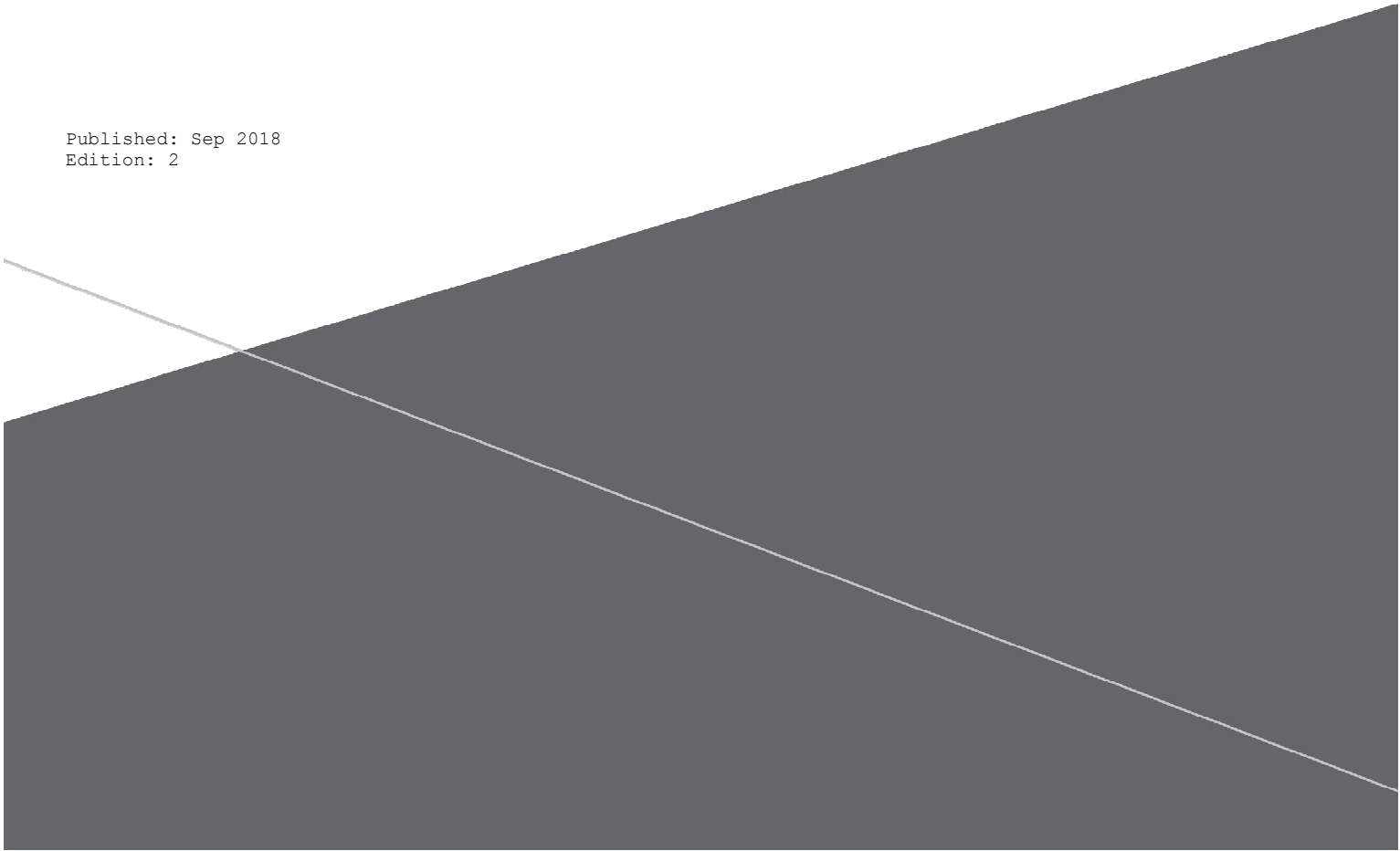


# Solution Guide for VRF Route Leak using Static Routes

ArubaOS-CX

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A large, dark gray, abstract geometric shape that resembles a stylized mountain or a series of overlapping planes. It is composed of several flat surfaces meeting at sharp angles. A thin, light gray line runs diagonally across the shape, intersecting it at multiple points.

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# Solution Guide for VRF route leaking using Static Routes on ArubaOS-CX

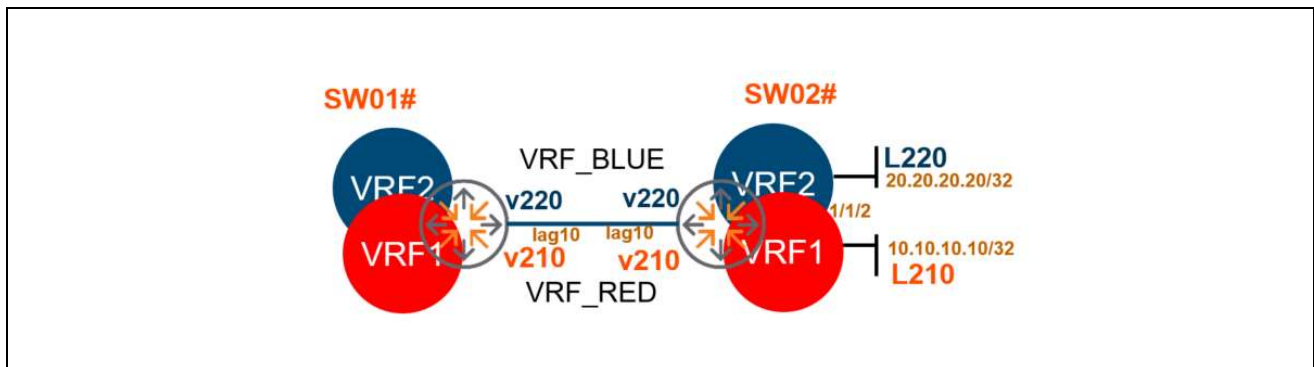
## Introduction

This document provides instruction on how to validate Inter VRF communication using route leak on ArubaOS-CX

## Route Leaking

This document provides instruction on how to validate Inter VRF communication using Static routes on ArubaOS-CX

## Topology



## Configurations

```
SW01-TOP-8320#show running-config
```

```
vrf BLUE
  rd 220:20

vrf RED
  rd 210:10

interface lag 10
  no shutdown
  no routing
  vlan trunk native 1 tag
  vlan trunk allowed 210,220
  lacp mode active

interface 1/1/15
  no shutdown
```

```

lag 10
interface 1/1/16
    no shutdown
    lag 10

interface vlan210
    vrf attach RED
    ip address 210.10.10.1/24
interface vlan220
    vrf attach BLUE
    ip address 220.20.20.1/24

ip route 10.10.10.0/24 210.10.10.10 vrf RED
ip route 220.20.20.0/24 vlan220 vrf RED << Route Leak
ip route 20.20.20.0/24 vlan220 vrf RED << Route Leak

ip route 20.20.20.0/24 220.20.20.20 vrf BLUE
ip route 10.10.10.0/24 vlan210 vrf BLUE << Route Leak
ip route 210.10.10.0/24 vlan210 vrf BLUE << Route Leak

```

#### SW02-BOT-8320#show running-config

```

vrf BLUE
    rd 220:20

vrf RED
    rd 210:10

vlan 1,210,220

interface lag 10
    no shutdown
    no routing
    vlan trunk native 1 tag
    vlan trunk allowed 210,220
    lacp mode active

interface 1/1/15
    no shutdown
    lag 10
interface 1/1/16
    no shutdown
    lag 10

interface loopback 210
    vrf attach RED
    ip address 10.10.10.10/24

interface loopback 220
    vrf attach BLUE
    ip address 20.20.20.20/24

interface vlan210
    vrf attach RED

```

```

ip address 210.10.10.10/24

interface vlan220
  vrf attach BLUE
  ip address 220.20.20.20/24

ip route 220.20.20.0/24 210.10.10.1 vrf RED
ip route 20.20.20.0/24 210.10.10.1 vrf RED

ip route 210.10.10.0/24 220.20.20.1 vrf BLUE
ip route 10.10.10.0/24 220.20.20.1 vrf BLUE

```

## Verifications

**SW01-TOP-8320# show lldp neighbor-info**

```

LLDP Neighbor Information
=====

```

```

Total Neighbor Entries      : 9
Total Neighbor Entries Deleted : 19
Total Neighbor Entries Dropped : 0
Total Neighbor Entries Aged-Out : 19

```

LOCAL-PORT	CHASSIS-ID	PORT-ID	PORT-DESC	TTL	SYS-NAME
1/1/15	d0:67:26:e2:02:16	1/1/15	1/1/15	120	SW02-BOT
1/1/16	d0:67:26:e2:02:16	1/1/16	1/1/16	120	SW02-BOT

**SW01-TOP-8320# sh ip route vrf RED**

Displaying ipv4 routes selected for forwarding

'[x/y]' denotes [distance/metric]

```

10.10.10.0/24, vrf RED
    via 210.10.10.10, [1/0], static
20.20.20.0/24, vrf RED
    via vlan220[vrf BLUE], [1/0], static
210.10.10.0/24, vrf RED
    via vlan210, [0/0], connected
210.10.10.1/32, vrf RED
    via vlan210, [0/0], local
220.20.20.0/24, vrf RED
    via vlan220[vrf BLUE], [1/0], static

```

**SW01-TOP-8320# sh ip route vrf BLUE**

Displaying ipv4 routes selected for forwarding

'[x/y]' denotes [distance/metric]

```
10.10.10.0/24, vrf BLUE
    via vlan210[vrf RED], [1/0], static
20.20.20.0/24, vrf BLUE
    via 220.20.20.20, [1/0], static
210.10.10.0/24, vrf BLUE
    via vlan210[vrf RED], [1/0], static
220.20.20.0/24, vrf BLUE
    via vlan220, [0/0], connected
220.20.20.1/32, vrf BLUE
    via vlan220, [0/0], local
```

**SW02-BOT-8320# ping 10.10.10.10 vrf BLUE**

```
PING 10.10.10.10 (10.10.10.10) 100(128) bytes of data.
108 bytes from 10.10.10.10: icmp_seq=1 ttl=63 time=0.316 ms
108 bytes from 10.10.10.10: icmp_seq=2 ttl=63 time=0.319 ms
108 bytes from 10.10.10.10: icmp_seq=3 ttl=63 time=0.299 ms
^C

--- 10.10.10.10 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 1999ms
rtt min/avg/max/mdev = 0.299/0.311/0.319/0.016 ms
```

**SW02-BOT-8320# ping 20.20.20.20 vrf RED**

```
PING 20.20.20.20 (20.20.20.20) 100(128) bytes of data.
108 bytes from 20.20.20.20: icmp_seq=1 ttl=63 time=0.326 ms
108 bytes from 20.20.20.20: icmp_seq=2 ttl=63 time=0.328 ms
108 bytes from 20.20.20.20: icmp_seq=3 ttl=63 time=0.317 ms

^C

--- 20.20.20.20 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3000ms
rtt min/avg/max/mdev = 0.335/0.360/0.387/0.021 ms
```