



# **IP FABRIC**

# **DATA REPORT**

# IP Fabric Data Overview

The IP Fabric data report presents a comprehensive network infrastructure analysis, providing detailed insights into various sections such as network inventory, interfaces, addressing, switching, routing, and wireless technologies.

The report is generated based on two snapshots, showcasing the values of the first snapshot and the delta value (+/-) compared to the second snapshot. This approach allows network engineers and administrators to track the changes and improvements made to the network over time.

## 1 Network data summary

<b>IP Fabric url</b>	https://10.194.50.22/api/v6.1/
<b>IP Fabric Version</b>	6.1.1+0
<b>Snapshot Name #1</b>	Path Change
<b>Snapshot ID #1</b>	33622054-dd2e-4456-87ec-18bcd73907d5
<b>Snapshot Name #2</b>	Baseline - Missing devs
<b>Snapshot ID #2</b>	f98a4241-e68b-49da-bf3e-9e8fb32e582b
<b>Network sites/groups</b>	1 (0)
<b>Network devices</b>	31 (+2)
<b>Network interfaces</b>	478 (+68)
<b>Network hosts/IP endpoints</b>	10 (0)
<b>VLANs</b>	8 (0)
<b>VRFs</b>	5 (0)

## 2 Network vendors

This report provides key statistical data on network vendors in two snapshots, showing the number of devices by vendor and the changes in the number of devices over time.

<b>Vendor</b>	<b>Devices count</b>	
23 (0)	1 (0)	
8 (2)	1 (0)	
<b>Models count</b>	<b>Platforms count</b>	<b>Families count</b>
arista	1 (0)	1 (0)
juniper	1 (0)	1 (0)

## 3 Interfaces overview

The Interfaces overview section provides insights into the network interfaces of the infrastructure. It reports on the total number of active interfaces, the number of edge interfaces, and the number of switchport interfaces. It also includes information on channel interfaces and the number of IPv4 and IPv6 tunnel interfaces. Finally, it provides details on the number of IPsec tunnels and gateways. The delta values indicate changes between two snapshots, highlighting any new or removed interfaces in the network.

<b>Network interfaces</b>	478 (+68)
<b>Active interfaces</b>	470 (+66)
<b>Edge interfaces</b>	16 (0)
<b>Switchport interfaces</b>	87 (0)
<b>Channel interfaces</b>	0 (0)
<b>IPv4 Tunnel interfaces</b>	2 (0)
<b>IPv6 Tunnel interfaces</b>	0 (0)
<b>IPsec Gateways</b>	2 (0)
<b>IPsec tunnels</b>	2 (0)

## 4 Addressing overview

The Addressing Overview section provides a detailed summary of the network addressing aspects based on two snapshots. It presents statistical data on managed networks, IPv4 and IPv6 interfaces, Address Resolution Protocol (ARP) tables, and Virtual Route Forwarding (VRF) instances. The first number indicates the current value, and the second number represents the change between two snapshots. This section provides valuable insights into the growth and changes in network addressing over time.

<b>Managed networks</b>	66 (+5)
<b>VRFs</b>	5 (0)
<b>IPv4 interfaces</b>	163 (+10)
<b>IPv6 interfaces</b>	0 (0)
<b>ARP entries</b>	328 (+26)
<b>MAC entries</b>	140 (0)

## 5 Switching overview

The Switching overview section provides key statistics on the status of network switching components. These include data on MAC addresses, VLANs, and Spanning Tree Protocol (STP) instances, bridges, virtual ports, and neighbors. The data is presented in two numbers: the first value represents the initial snapshot, and the second value (+X) represents the difference between the current snapshot and the previous one.

<b>MAC entries</b>	140 (0)
<b>VLANs</b>	8 (0)
<b>STP VLANs</b>	30 (0)
<b>STP Bridges</b>	0 (0)
<b>STP Virtual Ports</b>	0 (0)
<b>STP Instances</b>	0 (0)
<b>STP Neighbors</b>	0 (0)

## 6 Routing overview

The Routing overview section provides statistical data on the number of IPv4 and IPv6 routes, as well as the number of routes per protocol, including Connected, Static, BGP, OSPF, IS-IS, EIGRP, and RIP. Additionally, the report shows changes between two snapshots, including the number of added or removed routes for each protocol. This information allows network administrators to quickly understand the changes that have occurred in their network's routing tables.

<b>IPv4 routes</b>	842 (+92)
<b>IPv6 routes</b>	0 (0)
<b>Multicast routes</b>	0 (0)
<b>Attached routes</b>	0 (0)
<b>BGP routes</b>	132 (+40)
<b>Connected routes</b>	159 (+10)
<b>EIGRP routes</b>	0 (0)
<b>ISIS routes</b>	24 (+8)
<b>OSPF routes</b>	473 (+24)
<b>RIP routes</b>	0 (0)
<b>Static routes</b>	24 (0)

## 7 Wireless overview

The Wireless overview section provides statistical data about the wireless infrastructure within the network, including controllers, access points, radios, and clients. The first number in each row represents the value from the first snapshot, and the second number (+X) represents the delta value compared to the second snapshot provided. This data can be used to gain insights into the overall performance and utilization of the wireless network infrastructure.

<b>Wireless controllers</b>	0 (0)
<b>Wireless access points</b>	0 (0)
<b>Wireless radios and SSID summary</b>	0 (0)

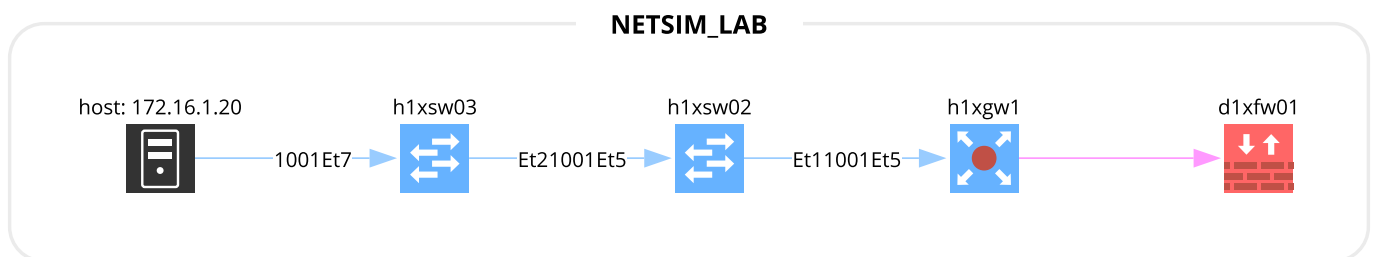
## 8 Simulation Compliance

Path Compliance is a critical aspect of network management that helps ensure the proper functioning of network paths and their compliance with organizational policies. This section provides an overview of the compliance status of network paths and associated details, such as source and destination IP addresses, ports, and protocols. The section includes a list of network paths that have been tested and their corresponding graphical representations in the form of SVG images. By analyzing the compliance data and SVG images, network administrators can identify and address issues affecting the network's performance and security.

### Path simulation data

<b>Name</b>	APP server to LAN2
<b>Source ip</b>	172.16.1.20
<b>Destination ip</b>	172.16.2.20
<b>Source port</b>	1024-65535
<b>Destination port</b>	80,443
<b>Snapshot id</b>	33622054-dd2e-4456-87ec-18bcd73907d5
<b>Protocol</b>	tcp
<b>Ttl</b>	64

### Path simulation result



### Path simulation data

<b>Name</b>	Node1 to Node2 over VXLAN
<b>Source ip</b>	172.16.5.21
<b>Destination ip</b>	172.16.5.20
<b>Source port</b>	1024-65535
<b>Destination port</b>	80
<b>Snapshot id</b>	33622054-dd2e-4456-87ec-18bcd73907d5
<b>Protocol</b>	tcp

Path simulation result

