

IPF 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.

Network data summary

IP Fabric url	https://10.194.50.5/api/v6.1/
IP Fabric Version	6.1.1+0
Snapshot Name (\$last)	HCI
Snapshot ID (\$last)	d95b42f9-fc99-44c4-9974-4b53941d74ef
Snapshot Name (\$prev)	HCI (clone)
Snapshot ID (\$prev)	bdad8165-d339-46ce-b6a5-243e1be19cc1
Network sites/groups	7 (0)
Network devices	852 (+11)
Network interfaces	42209 (+228)
Network hosts/IP endpoints	17835 (+25)
VLANs	883 (+9)
VRFs	188 (0)

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.

Vendor	Devices count	Families count	Models count	Platforms count
checkpoint	60 (6)	1 (0)	11 (0)	12 (0)
cisco	508 (5)	6 (0)	78 (1)	44 (0)
f5	16 (0)	1 (0)	4 (0)	4 (0)
hp	268 (0)	3 (0)	39 (0)	25 (0)

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.

Network interfaces	42209 (+228)
Active interfaces	17681 (+138)
Edge interfaces	7749 (+42)
Switchport interfaces	32264 (+165)
Channel interfaces	1584 (+5)
IPv4 Tunnel interfaces	284 (0)
IPv6 Tunnel interfaces	2 (0)
IPsec Gateways	135 (0)
IPsec tunnels	173 (0)

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.

Managed networks	3177 (+33)
VRFs	188 (0)

IPv4 interfaces	10260 (+55)
IPv6 interfaces	315 (0)
ARP entries	53956 (+120)
MAC entries	148184 (+433)

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.

MAC entries	148184 (+433)
VLANs	883 (+9)
STP VLANs	11901 (+76)
STP Bridges	12 (0)
STP Virtual Ports	240 (0)
STP Instances	17 (0)
STP Neighbors	513 (0)

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.

IPv4 routes	102169 (+171)
IPv6 routes	341551 (0)
Multicast routes	47 (0)
Attached routes	9621 (0)
BGP routes	46333 (0)
Connected routes	8507 (+51)
EIGRP routes	0 (0)
ISIS routes	0 (0)
OSPF routes	27774 (0)
RIP routes	0 (0)
Static routes	8075 (+116)

Wireless overview

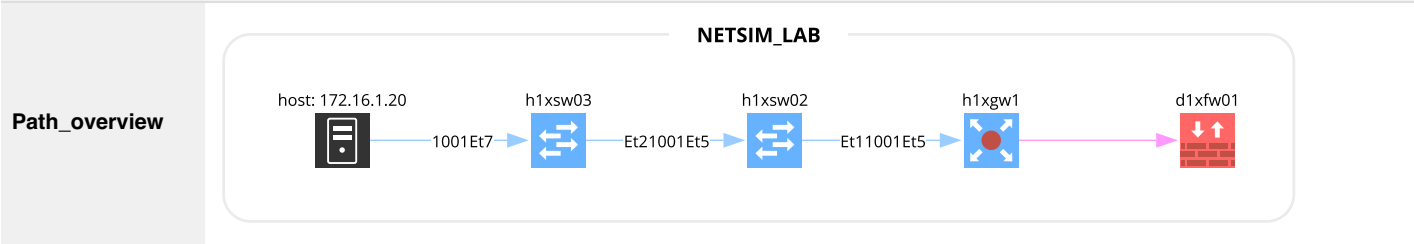
The Wireless overview section provides statistical data about the wireless infrastructure within the network, including controllers, access points, radios, and clients. The first number in each row represents the value from the first snapshot, and the second number (+X) represents the delta value compared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

Wireless controllers	12 (0)
Wireless access points	240 (0)
Wireless radios and SSID summary	17 (0)
Wireless clients	513 (0)

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.

Name	APP server to LAN2
Source ip	172.16.1.20
Destination ip	172.16.2.20
Source port	1024-65535
Destination port	80,443
Snapshot id	\$last
Protocol	tcp
Ttl	64



Name	Node1 to Node2 over VXLAN
Source ip	172.16.5.21
Destination ip	172.16.5.20
Source port	1024-65535
Destination port	80
Snapshot id	\$last
Protocol	tcp
Ttl	64

