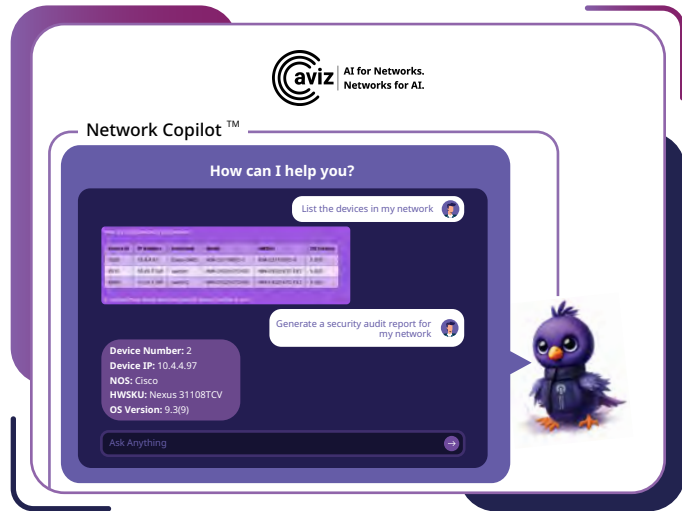# Take your Cisco Nexus Infrastructure Operation to the next level with Aviz Network Copilot™

Aviz Network Copilot provides a simple interface to query your existing Nexus switches and Nexus Dashboard to answer common questions when monitoring and managing your DC switching fabrics.

It's a private, GenAI-based solution that runs in your DC on your own server. Your data will not leave your premises and will not be used to train public cloud LLMs.

Network Copilot unlocks AI for networking—exactly where you need it.

Benefits

- Intuitive chat interface to get answers faster without memorizing multiple UI screens.

- Augmenting your existing investment into Nexus infrastructure to get to value faster

- Works with Nexus NX-OS and ACI, as well as Cisco S1 SONiC-based devices.

- Flexible architecture that enables rapid iteration of use cases through AI-driven software upgrades

Use Cases

Use Case	Questions I love to ask
Inventory Management	• What devices and SW versions are running in my fabric? • Where are all my Nexus 93600 within a specific SN range?
Infrastructure Health	• How many devices and SW images will be past End of Vulnerability support in next 180 days from today? • What is the Cisco suggested upgrade plan?
Capacity Planning	• Who are my top talkers? • What was the highest BW utilization? • What about last week vs yesterday?
Network Audits	• Generate a security audit report for my network?
Real-Time Network Insights	• Build me a personal dashboard showing correlations between packet drops and configuration changes.

Network Copilot™ for NEXUS & SONiC Cisco Fabrics
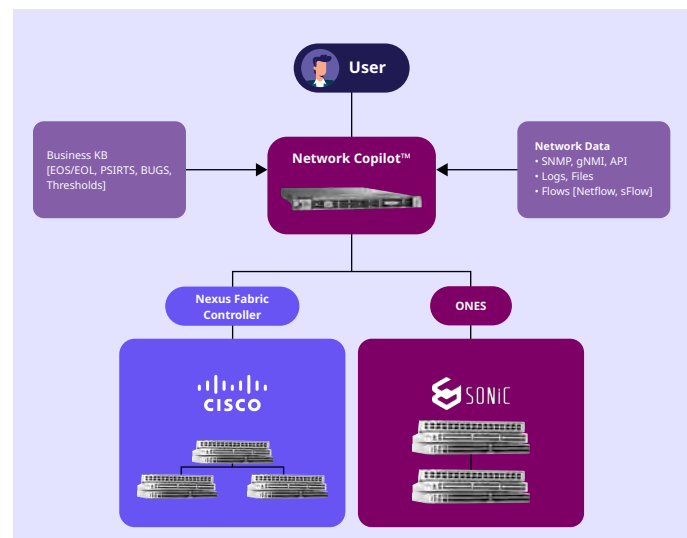
What do you need to get started

> An AI inference server (Cisco UCS with a small GPU) running NCP SW Trial license

> Connect your data sources using:

- • Your Nexus and 8000 switches and Nexus Dashboard (if installed)
- • It will work with Essential, Advantage, and/or Premier licenses
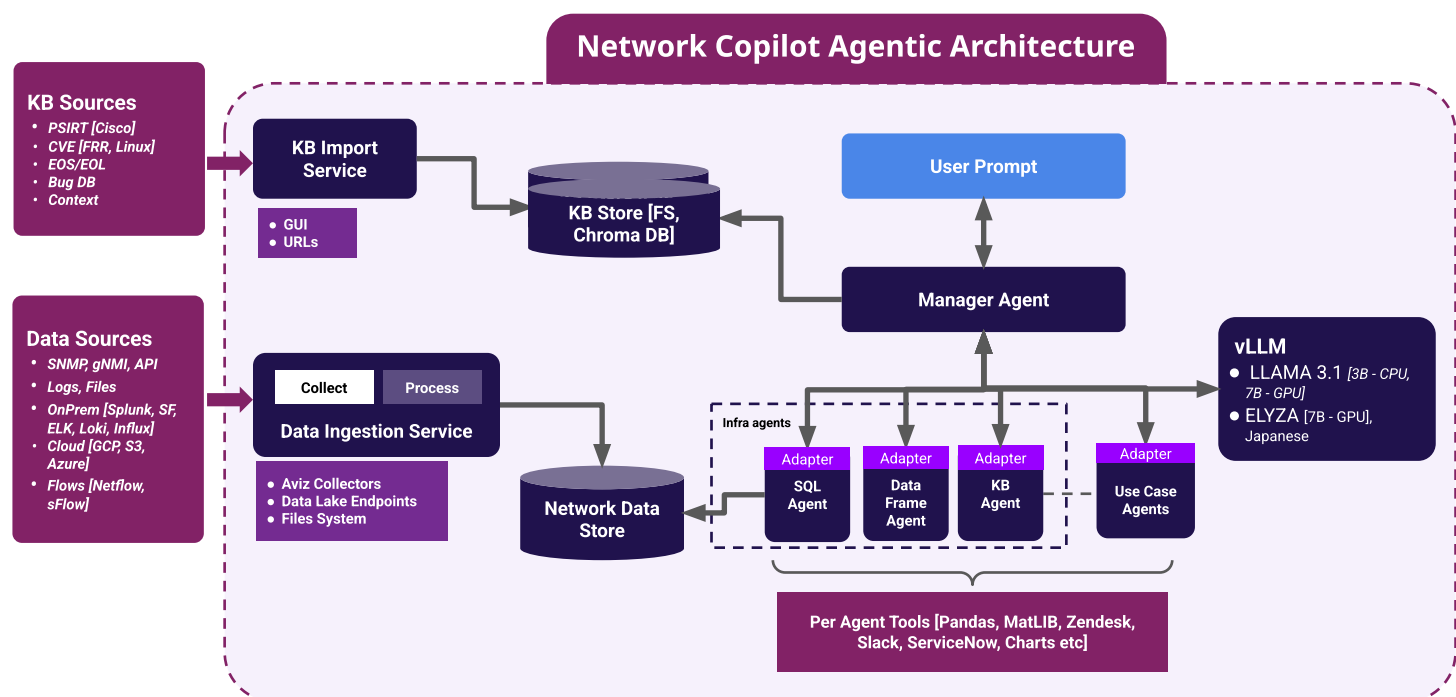- • Your curated knowledge base around Cisco HW and SW releases as well as EOS/ EOL plans

What do you need to make Network Copilot your daily Network Assistant

> Fine-tune and expand the use cases (aka AI agents) working with Aviz

What don't you need

> Internet Connection: Your data and LLM training always stay private.

How Does Network Copilot Work?

Network Copilot Agentic Architecture

KB Sources
- • PSIRT [Cisco]
- • CVE [FRR, Linux]
- • EOS/EOL
- • Bug DB
- • Context

KB Import Service
- ● GUI
- ● URLs

KB Store [FS, Chroma DB]

User Prompt

Manager Agent

Data Sources
- • SNMP, gNMI, API
- • Logs, Files
- • OnPrem [Splunk, SF, ELK, Loki, Influx]
- • Cloud [GCP, S3, Azure]
- • Flows [Netflow, sFlow]

Data Ingestion Service
| Collect | Process |

- ● Aviz Collectors
- ● Data Lake Endpoints
- ● Files System

Network Data Store

vLLM
- ● LLAMA 3.1 [3B - CPU, 7B - GPU]
- ● ELYZA [7B - GPU], Japanese

Infra agents

| Adapter | Adapter | Adapter |
| SQL Agent | Data Frame Agent | KB Agent |

| Adapter |
| Use Case Agents |

Per Agent Tools [Pandas, MatLIB, Zendesk, Slack, ServiceNow, Charts etc]

See the Network Copilot™ in action

Schedule a demo with Aviz

Try it at WWT AI Proving Ground Lab