IP FABRIC
AUTOMATED NETWORK ASSURANCE PLATFORM

IP Fabric | Security

A proactive approach to network security is non-negotiable for enterprises. As your network becomes more complex, so your attack surface widens. Leaving your network vulnerable by relying on manual processes is a risk most can't afford.

Gartner
COOL VENDOR 2022

Your Challenge

It's difficult to sufficiently harden your network infrastructure against attack when you're not truly sure that you know your network.

Even if your network infrastructure teams think they have access to this knowledge, your security teams are highly dependent on them for information about the network. Siloed teams who can't efficiently access vital data are easily – and understandably - frustrated.

Do you know what's in your network?

Our Solution

IP Fabric's network baseline gives you a network inventory you can trust, easily accessed by all teams, so you can validate that that the hardware, software, and configuration aren't leaving any vulnerabilities for an attacker to exploit.

We make clear and accurate network observability easy.

Benefits

- Infrastructure remains fit for purpose (does not reach end of life unexpectedly)
- Config is validated to best practice and regulatory compliance
- Security policy is appropriate and correctly applied
- Secure your hybrid cloud network

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72%

of vulnerabilities are network related. Two-thirds of these could be fixed through configuration.

SOURCE: EdgeScan 2020 Vulnerability Report.

60%

of breaches involved vulnerabilities for which a patch was available but not applied.

SOURCE: www.csoonline.com

73%

of enterprises have experienced security and compliance issues because of poor collaboration between cloud teams and traditional network infrastructure teams.

SOURCE: EMA Report 2021

Harden your network infrastructure against attack

Manage the network devices that control forwarding and policy enforcement behavior

Are there devices in my network that may be vulnerable?

Use a network baseline to always know the answer. IP Fabric's automated discovery is contained in point-in-time snapshots that contain complete information about the hardware,software, and configuration of your network, including device inventory, code version, and more.

Use a simple API request to validate the data that IPF gives you about your network infrastructure against the Common Vulnerability and Exposure (CVE) programme to understand the level of vulnerability in your network infrastructure.

Learn more about the CVE programme.

Is my infrastructure configuration hardened against attack?

IP Fabric enables easy standardization of management configuration – normalize authentication, access methods, monitoring setup, and event logging with our intent verification checks and end-to-end path lookup.

Making decisions around Security Information and Event Management becomes simplified with an overarching view of the network; seeing all network choke points, key distribution points, and more, at a glance, is possible in a matter of minutes with IP Fabric's network discovery and visualization.

Ensure that security policies are appropriately defined, properly placed, and deployed from a central point

Zero Trust Network Access

An effective Zero Trust security posture relies on the edge of the network being suitably secured. IP Fabric helps you identify the devices or hosts connected at your network edge.

Segmentation

Applying well-crafted segmentation to your network – that is, controlling how traffic flows through your network by limiting who and what can access certain systems – can improve your network performance and security. Use IP Fabric to validate your segmentation policies and gain more control of your network.

IP Fabric's security model also supports adding a further layer of protection through microsegmentation (for example, by adding application-layer information), giving you full visibility of the configuration and operation of network segments.

Policy Automation

IP Fabric can sit beside your security policy automation tools to bring deeper insight into the behavior of your network. Automatically notify tools about changes and test that changes have the desired effect.

Cloud Security

IP Fabric supports security policy enforcement in the cloud as it would in your on-prem networks. A hybrid network should never mean compromising on security.

IP Fabric brings everything together, with your infrastructure and security policy information all in one place. It's contextualized, automated network observability at your fingertips.

Here’s what our customers say

How S&P Global used IP Fabric in their Network Operations Strategy:

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When you’ve bult a global network and made it programmable, and focused on the user edge, you’ve expanded your security exposure a lot. [With IP Fabric], we shifted our approach to focus on edge security with Zero-Trust models.

Guruprasad Ramamoorthy,
Global Head of Network Architecture at S&P Global

More resources

- Read more about Zero Trust, Segmentation, and Policy Automation here.
- Blog Post: “How vulnerable is my network?”
- Blog Series: Network Security Assurance - Part 1 | Part 2 | Part 3
- More about the CVE programme
- Podcast: How S&P Global built a Network Observability Platform with IP Fabric

ABOUT **IP FABRIC**

IP Fabric is solving Network Assurance for large enterprises by creating a digital twin of the entire network infrastructure, containing information about every technology and protocol, and capable of simulating forwarding and security scenarios. IP Fabric's network model is also used as a Network Source of Truth for network automation initiatives, serving as an API for the entire network. IP Fabric was recognized by Gartner as Cool Vendor in Network Automation for 2022.

Don't take our word for it

REQUEST A DEMO

Request a demo and discover how to increase your networks visibility & get better time efficiency.

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