Securing the Hybrid Cloud with AI and Deep Observability

Extending the Gigamon Deep Observability Pipeline with GenAI to drive smarter decisions and stronger governance policy.

As organizations embrace AI and hybrid cloud to drive innovation, the speed and complexity of associated threats are outpacing traditional security and management tools. GenAI workloads are accelerating data growth, expanding attack surfaces, and introducing new risks as employees engage with GenAI applications that bypass existing controls—potentially exposing proprietary information. At the same time, security and IT teams are expected to operate faster and more efficiently, often with fewer resources.

This shifting landscape demands more than incremental change. It requires complete visibility, faster insights, and smarter governance across today's increasingly distributed and dynamic environments.

In response, Gigamon is enhancing the Deep Observability Pipeline with AI-powered intelligence—enabling organizations to better secure and manage hybrid cloud infrastructure by turning network-derived telemetry into real-time insights and control.

The Gigamon 2025 Hybrid Cloud Security Survey revealed that:

91%
of security leaders are recalibrating risk due to the impact of AI

55%
say existing tools are ineffective in detecting modern threats, including AI

1 IN 3
organizations report network traffic has more than doubled due to GenAI workloads

47%
lack visibility into East-West traffic, creating blind spots where threats move laterally and undetected

Challenges

- GenAI introduces unmanaged risk. Without visibility into how GenAI applications are used, organizations struggle to enforce governance, manage spend, or protect data.

- Operational complexity is growing. Infrastructure teams are stretched thin, while Tier 1 staff often lack the context or expertise to configure and troubleshoot rapidly evolving distributed environments.

- Endpoint reliance creates friction. Traditional solutions require agents and manual instrumentation, increasing deployment time and overhead.

The Solution

AI Traffic Intelligence

The Deep Observability Pipeline with integrated AI Traffic Intelligence identifies and classifies traffic from dozens of GenAI engines—without deploying intrusive agents.

- Gain real-time visibility into GenAI applications across public, private, virtual, and container environments
- Uncover shadow AI usage to reduce risk and support compliance oversight

- Centralized visibility quantifies actual usage, supporting policy enforcement and spend optimization

- Empower security and IT leaders to make data-driven governance decisions based on facts, not guesswork

GigvaVUE-FM Copilot and Tech Doc Assistant

Integrated into the Gigamon GigaVUE Fabric Manager and the technical documentation portal, GigaVUE-FM Copilot delivers GenAI-powered guidance to streamline configuration and operations.

- AI-assisted setup, validation, and feature discovery reduces time-to-deployment and eliminates rework

- Built-in chatbot-style interface offers real-time help for FM users, DevOps teams, and non-power users

- Accelerates onboarding and troubleshooting while lowering reliance on manual processes and Tier 3 'support' services

- Available both within the FM interface and publicly via the technical documentation portal

Figure 1. GenAI traffic is automatically detected, identified, and classified across hybrid cloud environments—enabling informed policy and data governance.

Key Features

Product Snapshot

- **AI Traffic Intelligence:** Identifies and classifies AI traffic, including usage of GenAI and LLM, across hybrid cloud infrastructure to expose shadow AI, assess risk, and support governance policies.

- **GigaVUE-FM Copilot:** AI-powered assistant embedded in GigaVUE-FM that helps users configure, validate, and optimize visibility workflows, accelerating deployment and reducing manual effort.

- **Tech Docs AI Assistant:** AI assistant that helps users find, summarize, and apply Gigamon documentation to speed troubleshooting and deployment.

Key Benefits

- **Stronger Security Posture:** Detect unauthorized GenAI activity, across the network, including lateral and encrypted traffic

- **Improved Governance:** Track GenAI application usage to support policy compliance and reduce risk

- **Reduced Financial Exposure:** Uncover hidden or unfunded GenAI usage across departments to optimize spend

- **Reduced Operational Overhead:** Reduce escalations and increase confidence with faster investigations and complete visibility into AI activity across your hybrid cloud

- **Faster Time-to-Value:** Reduce deployment friction with real-time configuration validation and contextual assistance
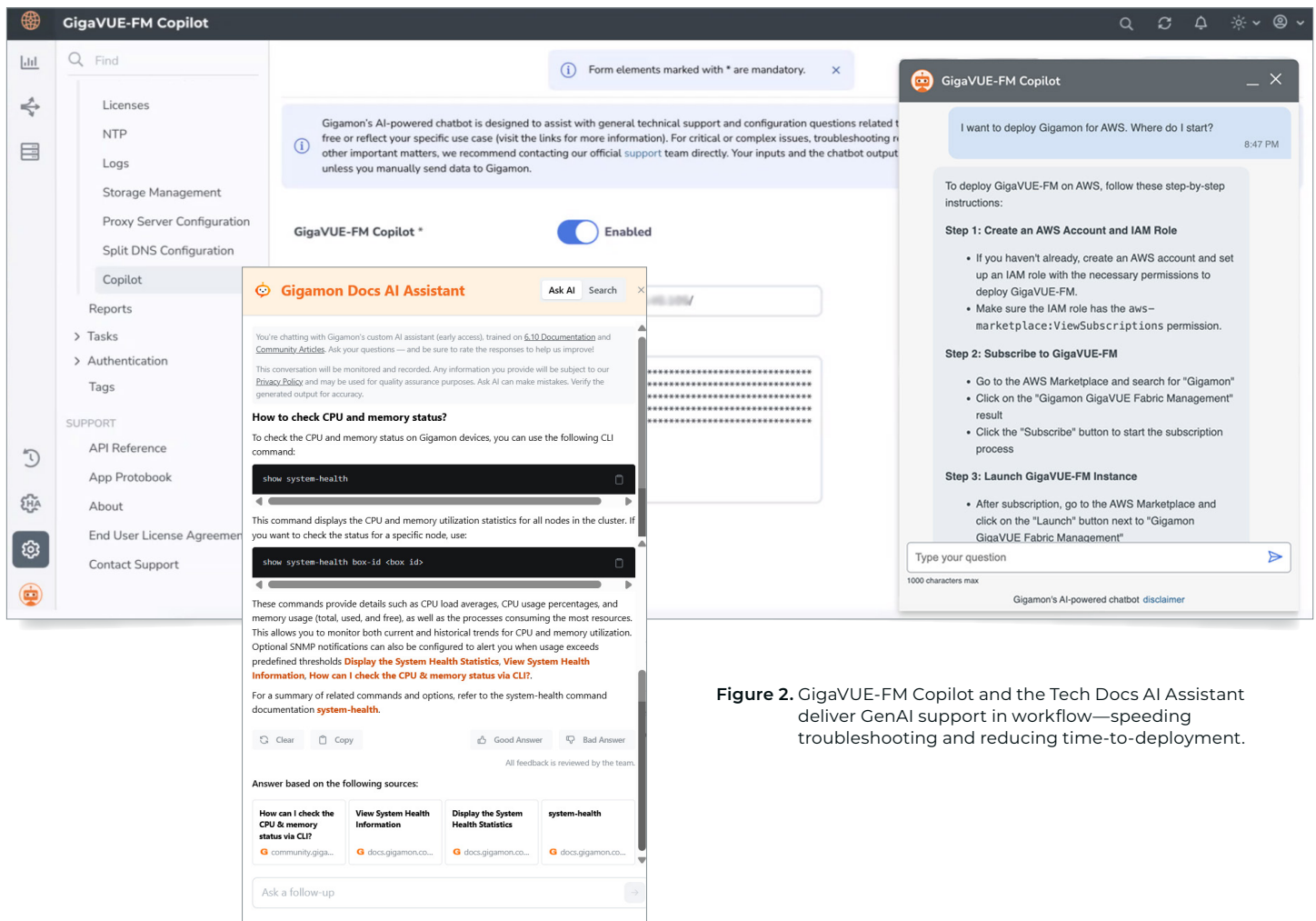
Figure 2. GigaVUE-FM Copilot and the Tech Docs AI Assistant deliver GenAI support in workflow—speeding troubleshooting and reducing time-to-deployment.

Conclusion

In the AI era, hybrid cloud infrastructure is under growing pressure—from surging traffic volumes and lateral threats to rising governance expectations and resource constraints. Conventional log and metric-based tools alone can no longer keep up.

By enhancing the Deep Observability Pipeline with GenAI-powered intelligence, Gigamon enables organizations to address these challenges head-on—detecting AI-related activity, streamlining operations, and empowering teams to act with greater insight and control. With visibility grounded in fusing network-derived telemetry with metric, event, log, and trace data and extended through intelligent automation, organizations can shift from reactive defense to proactive management.

This is deep observability—elevated to meet the complexity, speed, and opportunity of what comes next.

About Gigamon

Gigamon® offers a deep observability pipeline that efficiently delivers network-derived telemetry to cloud, security, and observability tools. This helps eliminate security blind spots and reduce tool costs, enabling you to better secure and manage your hybrid cloud infrastructure. Gigamon has served more than 4,000 customers worldwide, including over 80 percent of Fortune 100 enterprises, 9 of the 10 largest mobile network providers, and hundreds of governments and educational organizations. To learn more, please visit gigamon.com.

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