

Infrastructure Observability

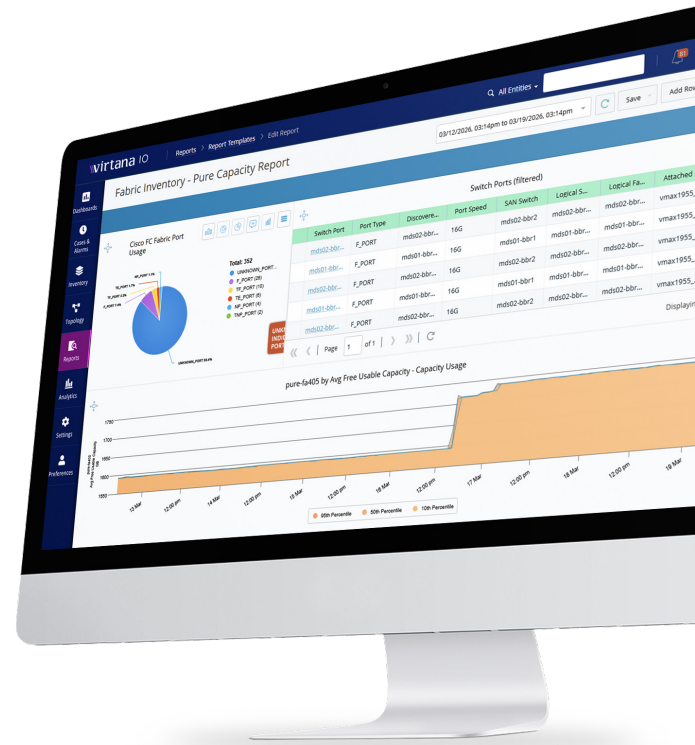
Understand Infrastructure. Eliminate Constraints. Optimize Performance.

Modern enterprise infrastructure spans compute, virtualization, containers, storage, networking, cloud, GPUs, and AI infrastructure. As these environments become increasingly distributed, infrastructure teams must quickly understand where constraints exist, how resource contention affects application delivery, and what actions will prevent service disruption.

Legacy monitoring tools collect infrastructure metrics and generate alerts, but they present isolated views of individual components. Teams must manually correlate telemetry across domains to identify bottlenecks, determine root cause, assess downstream impact, and plan capacity. As infrastructure grows in complexity, reactive operations increase risk, reduce efficiency, and make capacity planning more difficult.

Virtana Infrastructure Observability, delivered through the Virtana Agentic Observability Platform, transforms infrastructure telemetry into system understanding. The platform continuously builds a Single Source of Truth by discovering compute, storage, networking, virtualization, Kubernetes, cloud, GPU resources, and their dependencies to create a real-time operational model of the complete infrastructure. Diagnostic Agents leverage this unified context to perform Agentic Root Cause Analysis, reasoning across resource dependencies, infrastructure topology, performance telemetry, and historical behavior to identify infrastructure constraints before they impact business services. Remediation Agents then recommend or orchestrate policy-driven workflows that optimize infrastructure performance, reduce operational risk, and accelerate issue resolution.

Unlike traditional infrastructure monitoring, Virtana continuously understands infrastructure as a connected execution system, enabling operations teams to move from infrastructure visibility to infrastructure intelligence. ([Virtana](#))



Key Capabilities

Full-Stack Infrastructure Visibility

Gain deep visibility across compute, virtualization, Kubernetes, storage, networking, cloud infrastructure, and GPU environments through a Single Source of Truth. Continuous discovery and dynamic infrastructure topology provide a unified operational view across hybrid and multi-cloud environments. [\(Virtana\)](#)

Infrastructure Performance & Constraint Analysis

Continuously model infrastructure relationships to identify resource contention, bottlenecks, and limiting dependencies across the delivery chain. Understand where performance constraints originate before they cascade into application or service degradation. [\(Virtana\)](#)

Agentic Root Cause Analysis

Using the platform's unified operational model, Diagnostic Agents reason across infrastructure topology, dependency relationships, performance telemetry, events, and historical behavior to identify the true infrastructure constraint behind performance degradation. Rather than simply correlating alerts, they verify root cause, explain dependency impacts, and provide evidence-based recommendations that accelerate resolution. [\(Virtana\)](#)

Predictive Capacity Intelligence

Forecast future demand across compute, storage, networking, and GPU environments. Identify capacity constraints before they affect service delivery and optimize resource utilization while reducing overprovisioning and operational costs. [\(Virtana\)](#)

Autonomous Infrastructure Operations

Accelerate operations with AI-driven incident summaries, infrastructure context, dependency intelligence, and recommended actions. Remediation Agents support governed automation that enables organizations to move from reactive operations toward autonomous infrastructure management. [\(Virtana\)](#)

Infrastructure Risk & Change Management

Evaluate infrastructure changes against the live operational model to understand downstream dependencies and operational risk before upgrades, migrations, or configuration changes. Improve change confidence while reducing service disruption. [\(Virtana\)](#)

Business Outcomes

Organizations using Virtana Infrastructure Observability can:

- Reduce Mean Time to Resolution (MTTR)
- Identify infrastructure constraints faster with Agentic Root Cause Analysis
- Improve infrastructure performance and utilization
- Optimize capacity planning across hybrid environments
- Reduce operational risk during infrastructure changes
- Improve infrastructure efficiency while controlling costs
- Enable governed automation for infrastructure operations
- Establish the operational foundation for autonomous infrastructure management [\(Virtana\)](#)

Why Virtana AI Factory Observability?

Deep Infrastructure Visibility

Understand compute, storage, networking, virtualization, Kubernetes, cloud, and AI infrastructure as a connected execution system.

Single Source of Truth

Maintain a continuously updated operational model that connects infrastructure resources, dependencies, and business context.

Agentic Root Cause Analysis

Move beyond infrastructure alerts with Diagnostic Agents that identify limiting resource constraints, explain dependency impacts, and recommend the next best action.

Predictive Capacity Intelligence

Forecast future infrastructure demand, optimize resource utilization, and proactively prevent capacity bottlenecks.

Governed Infrastructure Automation

Use Remediation Agents to guide or automate operational workflows while maintaining policy controls and operational oversight.

About Virtana

Virtana, provider of the deepest and broadest Agentic Observability Platform for hybrid and multi-cloud environments, delivers system-aware observability spanning applications, services, data pipelines, GPUs, CPUs, networks, and storage. Powered by high-fidelity operational data and agentic AI, Virtana provides unmatched visibility across end-to-end IT services and AI execution systems, correlating health, performance, cost, and user impact in real time. With advanced event intelligence and AI-driven reasoning, Virtana delivers clarity no other provider can match. Trusted by Global 2000 enterprises and public sector organizations, Virtana helps IT operations, Platform Engineering, SRE, and DevOps teams reduce risk, strengthen resilience, improve efficiency, and modernize with confidence across multi-cloud, on-premises, edge, and sovereign environments.

Learn more at virtana.com