



Seven Use Cases for Full-Stack Observability

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An e-book from



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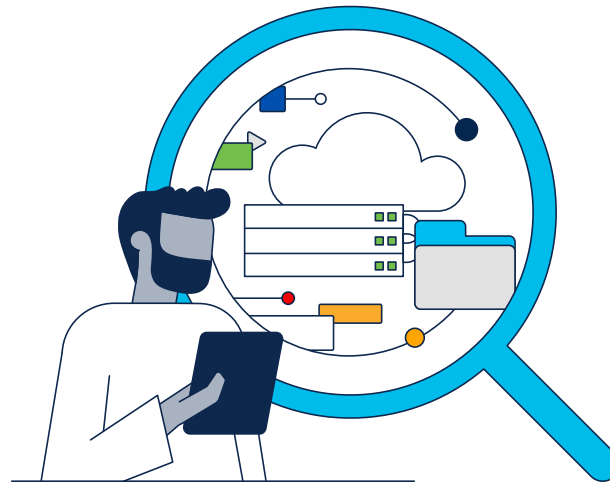
What is Cisco Full-Stack Observability?

Cisco Full-Stack Observability takes an evolutionary step beyond the siloed approach of traditional monitoring. It provides an aggregated, correlated, comprehensive view across distributed environments. Cisco FSO provides real-time visibility, insights, and recommended actions enriched with business context, enabling teams across multiple domains to proactively identify, prioritize, and resolve issues to deliver always-on, secure, and exceptional digital experiences.

Why Cisco Full-Stack Observability for AWS?

Cisco Full-Stack Observability helps you get better performance—and better value—from the apps you have running on AWS. By correlating data from across the entire technology stack into actionable insights, it strengthens your ability to monitor and optimize user experience, allocate resources, and defend applications against attacks.

In this e-book, you'll learn about the seven most common use cases for Cisco Full-Stack Observability.



Use case 1

Hybrid application monitoring

What's happening on your traditional and hybrid applications?

Up until now, most businesses have relied on multiple siloed, domain-centric tools to monitor traditional on-premises applications and cloud-based technologies.

This approach makes it difficult to map application dependencies, identify the root causes of issues impacting performance, and prioritize issues according to business impact.



Cisco Full-Stack Observability enables the correlation of performance and user experience to business results, for proactive, prioritized management and remediation of issues.

- Monitor performance of your traditional and hybrid applications.
- Connect IT teams to business results through visibility into the user experience.
- Monitor and troubleshoot SAP supply chains and business processes.

Use case 2

Modern application monitoring

What's happening on your cloud native applications?

Businesses increasingly rely on cloud native applications, which are often microservice-based, distributed applications.

Application performance can be degraded by infrastructure-related issues that are difficult to troubleshoot because they span across cloud environments.



Cisco Full-Stack Observability empowers development teams to monitor and optimize performance of cloud native applications hosted on, and spanning across, public or private clouds.

- Monitor performance of your cloud native applications.
- Proactively find, correlate, and prioritize issues based on business impact.

Use case 3

Customer digital experience monitoring

What's happening with user experience on your applications?

User experience is often impacted by issues in external environments, from third-party Internet services all the way down to the user device.

Your technology teams traditionally have limited visibility into these areas, which can slow or prevent issue detection and remediation, and undermine your teams' ability to collaborate effectively.



Cisco Full-Stack Observability provides your teams with actionable, end-to-end insight into application experience, its underlying dependencies, and business impact.

- Leverage bi-directional integration of application observability and network intelligence.
- Correlate business results with application, network, and Internet performance.
- Optimize joint operations for triage and troubleshooting.

Use case 4

Application dependency monitoring

What's happening on the services that support your applications?

Application performance relies on the successful interaction of distributed components.

With traditional tools, your teams have insufficient visibility into APIs and other services that are outside of IT's control or only reachable via publicly shared networks.



Cisco Full-Stack Observability provides visibility beyond the enterprise into external networks, services, and dependencies, including Internet and cloud provider networks, APIs, and third-party services.

- Leverage real-time ingestion of application dependency mapping data into network intelligence data.
- Uncover gaps in network visibility.
- Seamlessly triage workflows across AppOps and NetOps.

Use case 5

Hybrid cost optimization

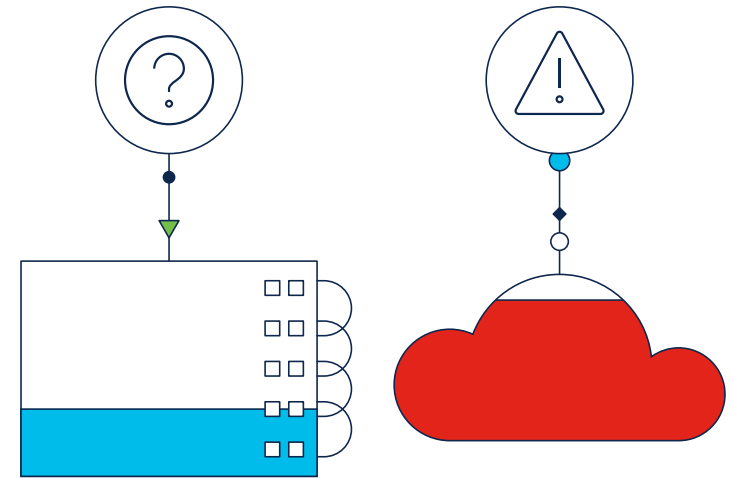
Are you over-provisioning in the cloud and under-utilizing on-premises?

A common inefficiency in distributed environments is the over-provisioning of cloud resources to ensure application performance.

On-premises infrastructure is often scaled to handle peak application load estimates, and consequently is under-utilized at most times.

Cisco Full-Stack Observability enables you to lower costs by only paying for what you need in public cloud while safely increasing utilization of on-premises assets.

- Gain visibility into application-level costs.
- Understand cloud spend and the cost of idle resources.
- Continuously optimize on-premises and cloud infrastructure.



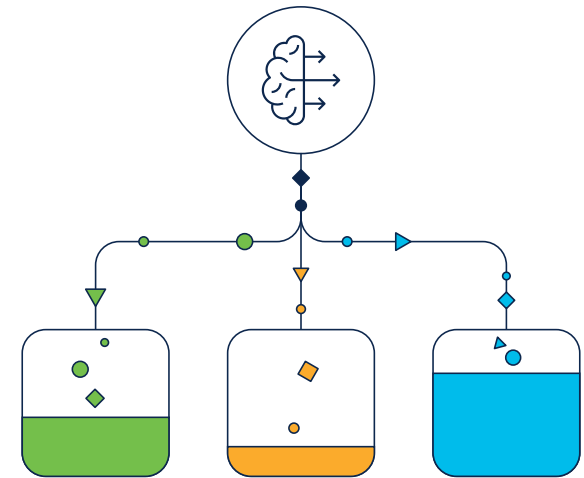
Use case 6

Application resource optimization

How do you allocate resources to best ensure application performance?

The resource requirements for your applications vary dynamically depending on utilization. Lack of visibility into those requirements impedes the ability of your infrastructure and app teams to collaborate effectively to optimize user experience.

Manual resource allocation consumes the energy of your IT teams with manual tasks and chasing alerts instead of supporting innovation.



Cisco Full-Stack Observability takes the guesswork out of resource allocation for workloads on-premises and in the public cloud, so your teams can more successfully improve and assure application performance.

- Simplify application resource management and ensure application performance.
- Optimize infrastructure and balance performance with cost.
- Streamline daily operations with SaaS-based infrastructure lifecycle management.

Use case 7

Application security with business risk observability

How do your teams collaborate to identify and remediate vulnerabilities?

A lack of visibility and shared context across teams can jeopardize their ability to pinpoint and address security vulnerabilities and incidents.

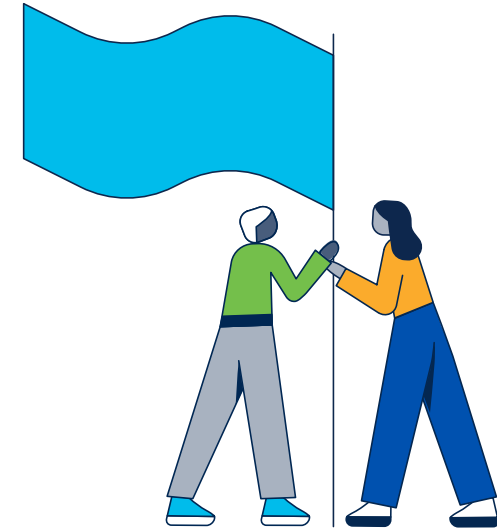
In order to work together effectively, your IT and SecOps teams need shared visibility and insight into the scope of security incidents; into their priority relative to other alerts; and into the impact on the application, end users, and the business overall.



Cisco Full-Stack Observability empowers your security and applications teams with expanded threat visibility and intelligent business risk prioritization.

- Protect applications with real-time security visibility.
- Prioritize responses based on a risk score that ties security issues to business context.
- Resolve revenue-impacting security risks faster and reduce overall risk profiles.

Ready to take the next steps in building a Full-Stack Observability strategy for your apps running on AWS?



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[AWS Marketplace – Cisco Storefront >](#)

Reimagining applications with Full-Stack Observability.

