Cisco FSO on AWS

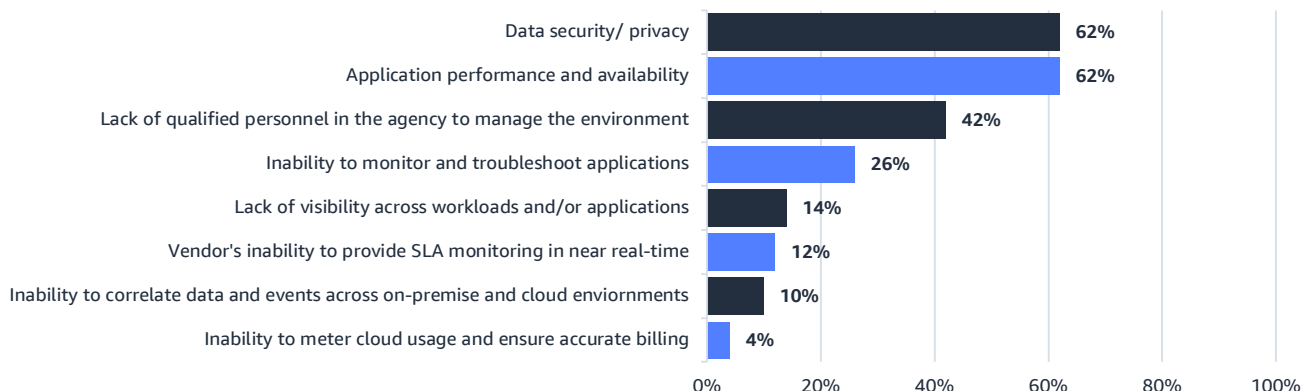## Public sector security and compliance in the cloud

Challenges

Public institutions need cost-efficient, compliant data security solutions for complex infrastructures

The public sector faces stringent security requirements, requiring a move away from legacy technology and towards modernization through cloud technology. As agencies increasingly adopt and mature in the cloud but maintain some legacy technology, they need holistic, scalable monitoring and visibility solutions that align with regulatory standards and meet resource constraints.

Key public sector concerns

Concern	Percentage
Data security/ privacy	62%
Application performance and availability	62%
Lack of qualified personnel in the agency to manage the environment	42%
Inability to monitor and troubleshoot applications	26%
Lack of visibility across workloads and/or applications	14%
Vendor's inability to provide SLA monitoring in near real-time	12%
Inability to correlate data and events across on-premise and cloud enviornments	10%
Inability to meter cloud usage and ensure accurate billing	4%

Full-stack observability (FSO), a security approach that eliminates the visibility gaps of a siloed approach to traditional monitoring, addresses the public sector's top IT concerns. Not only does it correlate data across the entire technology stack to defend against attacks, but it also provides insight into performance, resource allocation, and the user experience.

The Cisco Solution

Cisco FSO on AWS for secure, streamlined operations in the cloud

Cisco FSO on Amazon Web Services (AWS) is an integrated solution that provides end-to-end visibility into your institution's technology stack, monitoring applications, infrastructure, and network layer. Cisco FSO's comprehensive monitoring and optimization capabilities make it easier to troubleshoot so that agencies can enjoy more uptime to ensure ongoing performance and drive cost efficiency.

Cisco and AWS together offer Cloud Native Application Observability through the Cisco Full-Stack Observability Platform. This solution ingests and visualizes metrics, events, logs, and trace data from various sources, including OpenTelemetry and AWS CloudWatch, to provide a consolidated view of performance across services. It identifies crucial relationships and dependencies, enabling operations to focus on critical services with a single, powerful tool.

With granular infrastructure visibility, Cisco FSO for AWS facilitates the cloud migration process and path to better security. With the ability to see into every layer of your institution's stack through both Cisco FSO and AWS services, you can make informed decisions as you navigate various stages of your cloud journey.

Benefits

Cisco FSO on AWS offers an easy-to-use cloud monitoring portfolio that supports transparency

End-to-end visibility

Move beyond domain monitoring into full-stack visibility, insights, and actions across the technology stack in the multi-cloud environment.

✓ Visualize all metrics, events, logs, and trace (M.E.L.T) data to navigate and observe all domains up and down and understand cross-domain impacts.

Cost optimizations for long-term value

Gain cost transparency by correlating performance against infrastructure health to show the financial impact of your cloud usage.

✓ Purchase the Cisco FSO portfolio through AWS Marketplace to count toward your AWS spend commitment.

✓ Reduce the risk of costly breaches and time to resolution, saving money, enhancing public credibility, and getting better value from app running on AWS.

Stronger security posture that meets requirements

Accelerate and de-risk your migration to AWS with continuous monitoring, managing, securing, and refining user experiences.

✓ Meet FedRAMP moderate compliance with AppDynamics GovAPM solution in the FSO portfolio.

✓ Rely on AWS support for workloads for government organizations such as FedRAMP, FISMA, GDPR, the ISO 27000-series international standards, and more.

✓ Remain compliant with Cisco's FedRAMP authorized offers, which fully meet NIST 800-53 requirements (FIPS encryption, U.S. Data Residency, and U.S. Person Operators and Administrators).

A better user experience

Implement powerful, easy-to-use monitoring solution that gives a simple and centralized management pane.

✓ Modernize and manage apps securely.

✓ See consistent uptime and user experience.

✓ Secure citizen data with visibility.

✓ Access FSO reporting and dashboards for data use visibility and accountability.

✓ Minimize tool with a unified solution instead of point tools.

Cisco FSO and the AWS Cloud

How do AWS and Cisco FSO complement each other?

Cisco full-stack observability solutions on AWS provide the right tools to get the most out of your agency's cloud workloads, move faster, and deliver optimal connects and app performance on AWS. Connection with AWS solutions such as Amazon CloudWatch creates a 360-view of what's going on inside and outside of your applications and infrastructure, yielding an even deeper understanding of what's going on in your environment .

The Cisco FSO portfolio incorporates Cisco AppDynamics, Cisco Secure Application, Cisco ThousandEyes, and Cisco Intersight Workload Optimizer to transform data into actionable insights and ensure visibility and control of your migration.

Cisco ThousandEyes
for internet uptime and availability

Insights into agencies', contractors', and citizens' digital experiences through real-time application and network metrics and visualizations

Cisco AppDynamics
for application dependency detection and visibility

Proactive monitoring of complex application environments at scale for anomaly detection and root-cause analysis

Cisco Secure Application
for vulnerability identification and mitigation

Real-time risk assessment and streamlined remediation with shared context across applications and security teams

Cisco Intersight Workload Optimizer (IWO) for performance maintenance of on-premises and public cloud environments

AI-assisted continuous analysis of workload consumption, costs, and policy constraints with automatic resource scaling in real-time

Cisco supports every step of your transition to the cloud

As the public sector continues to embrace hybrid cloud infrastructure, AWS and Cisco are helping them migrate to the cloud, modernize their applications, and monitor their network and Internet performance at every stage.

Cisco AppDynamics institutions can leverage Cisco FSO and AWS services to assess their readiness for migration. Identify bottlenecks and establish performance baselines. AWS services such as the Migration Evaluator and AWS Cloud Economics Center offer support by evaluating resources, generating cost projections, and creating compelling business cases tailored to your agency's specific needs.

During migration, Cisco FSO helps measure performance gaps and take corrective actions to ensure a predictable user experience, whether it's to safeguard regulatory standards or secure multi-cloud workloads. AWS Control Tower and AWS Landing Zone further streamline mobilization with automated secure multi-account setup, governance standardization, and scalable multi-account environments aligned with best practices. AWS Application Migration Service facilitates seamless migration of applications and servers to the AWS cloud.

After migration, when institutions are focused on application modernization, Cisco FSO helps identify application components that are candidates for modernization, provides resource optimization recommendations, and strengthens application security. Additionally, AWS Migration Hub serves as a centralized hub for tracking and managing migrations.

Get started with Cisco FSO
on AWS at AWS Marketplace