CROWDSTRIKE

CrowdStrike Products
Solution Brief

Falcon Cloud Security:

Accelerate AWS Cloud Migrations

In today's rapidly evolving digital landscape, organizations are strategically leveraging AWS to transform their cloud infrastructure. Cloud migrations unlock important opportunities for growth, innovation, and operational excellence. But they simultaneously introduce complex cybersecurity challenges that demand comprehensive protection. This solution brief explores how CrowdStrike Falcon® Cloud Security seamlessly integrates with the phases of the AWS Migration Acceleration Program (MAP), providing a robust framework that safeguards each stage of cloud migration and maintains rigorous security throughout ongoing cloud operations.

How Falcon Cloud Security and AWS protect migrations

The integrated CrowdStrike Falcon® platform, engineered for the cloud, and AWS simplify the complexity of cloud security. Cloud migration is not merely a technology shift — it's a strategic business decision with far-reaching operational and security implications, and it often presents a steep learning curve for teams accustomed to traditional environments.

Falcon Cloud Security provides a turnkey solution that secures the cloud environment from Day One, accelerating time-to-value for cloud initiatives without compromising on protection. It enables organizations to maintain a strong security posture while embracing the agility and scalability of the cloud. This approach is crucial in an era when cyber threats are increasingly targeting cloud resources with fast and sophisticated attacks.

Key benefits

- Keep complex cloud migrations on track
- Prepare for Day One operations
- Start from a secure posture and migrate with confidence
- CrowdStrike Falcon Cloud Security delivers:
  - Unified hybrid, multi-account security posture
  - Enhanced visibility and compliance
  - Proactive threat protection
  - Simple, automated deployment

Secure Migrations with CrowdStrike and AWS

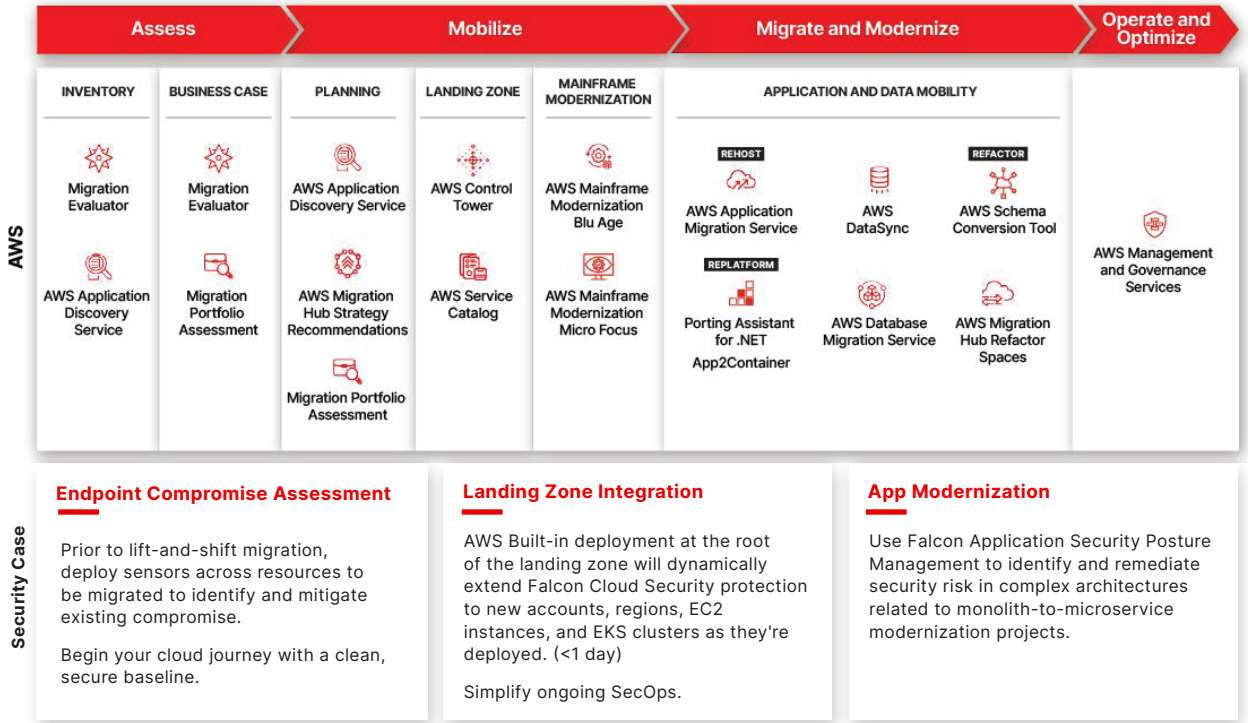

Figure 1. Falcon Cloud Security's Secure Cloud Migration aligns to the AWS Migration Acceleration Program phases

Alignment with AWS Migration Acceleration Program

Assess Phase

The journey begins with a comprehensive evaluation of the existing on-premises environment. While customers might remain unaware of cyber adversaries silently inhabiting aging data centers, the pre-migration compromise assessment surfaces those intrusions by capturing deep and extensive system telemetry using the Falcon platform's unified sensor. Falcon sensor installation occurs seamlessly without requiring a reboot and can be deployed across large-scale environments in minutes. The CrowdStrike Falcon® Adversary OverWatch™ expert threat hunting team meticulously analyzes this rich telemetry, detecting subtle indicators of attack and compromise. Through its precise intervention, the team systematically neutralizes advanced persistent threats, empowering customers to launch their cloud migration from a secure and pristine baseline. This critical phase helps to secure a clean foundation, substantially reducing the risk of hidden adversaries that could undermine the migration and compromise the new cloud environment (see Figure 2).

Pre-migration Compromise Assessment and Remediation

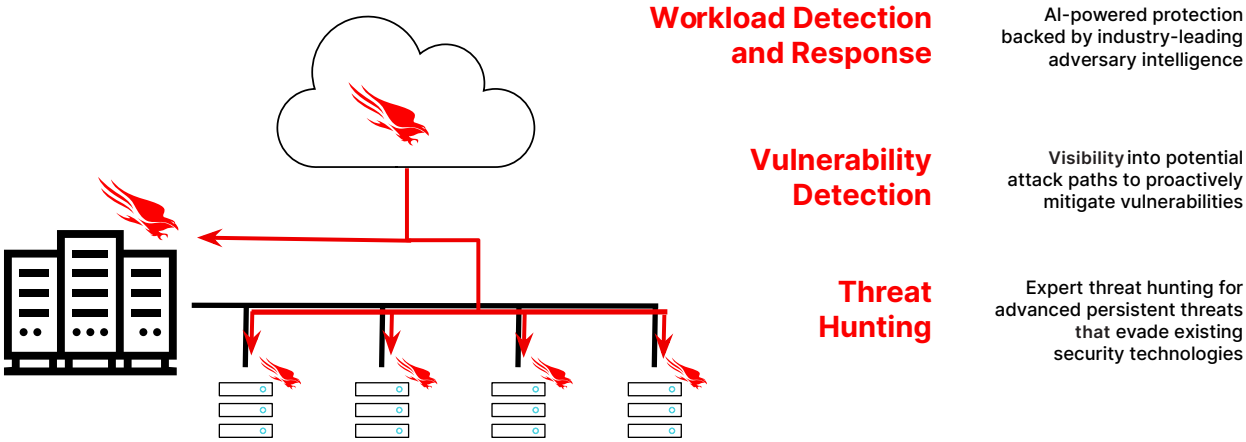

Figure 2. In the pre-migration compromise assessment, the lightweight, no-reboot Falcon sensor is deployed across the legacy environment to provide rich telemetry to Falcon Adversary OverWatch threat hunters to help customers mitigate risk and ensure a clean starting point

Mobilize Phase

Successful migration journeys start with a strong operational foundation for secure and rapid growth, composed of a multi-account landing zone with operational guardrails and dynamically provisioned cybersecurity tools. CrowdStrike's AWS Built-in template for Falcon Cloud Security uses an AWS-native event-driven deployment strategy to ensure comprehensive protection across any existing AWS resources and future resources as they are provisioned in root and child accounts (see Figure 3). Using an event-driven architecture, the components of Falcon Cloud Security are deployed dynamically as customers build and scale in the cloud, without any additional human effort.

Event-Driven Deployment

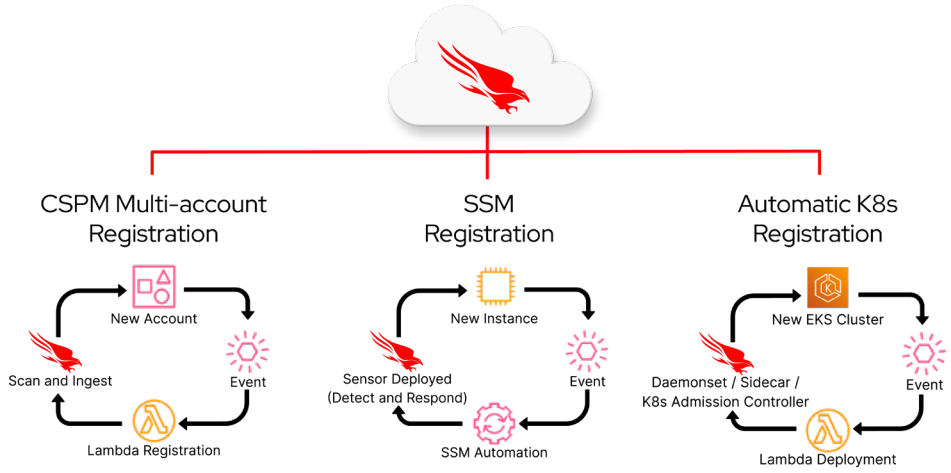

Figure 3. Each new account, region, instance, and cluster provisioned in the customer's environment triggers the deployment of Falcon Cloud Security components to protect against active threats and provide continuous security posture monitoring

Migrate and Modernize Phase

As enterprises accelerate their digital transformation journey and begin modernizing legacy applications following the lift-and-shift migration, Falcon Cloud Security provides continuous monitoring and seamless security coverage across hybrid environments. A seamless guardian of containerized workloads, serverless functions, and microservices, Falcon Cloud Security is specifically designed for the complex, dynamic nature of modern application architectures.

Falcon Application Security Posture Management (ASPM) — a capability of Falcon Cloud Security — dynamically assesses security risk associated with frequent code changes on runtime environments, enabling organizations to rapidly identify and mitigate potential vulnerabilities. This proactive approach creates a robust, adaptive security framework that seamlessly integrates into the development and deployment workflow.

Operate and Optimize Phase

For customers at every stage of cloud operations, CrowdStrike offers a portfolio of security services covering AWS and hybrid environments. These services are shaped to fit each customer's unique requirements. To handle the ongoing stream of security alerts and zero-day threats, CrowdStrike's managed real-time threat hunting and scalable security operations become an extension of the customer's cybersecurity team. To help security teams extend their effectiveness, CrowdStrike Charlotte AI™, CrowdStrike's generative AI virtual security analyst, accelerates investigations and handles routine activities, allowing security teams to leverage the full capabilities of the Falcon platform from Day One.

Delivering comprehensive protection

Falcon Cloud Security empowers organizations to proactively secure their cloud infrastructure by enabling customers to incorporate container image and infrastructure-as-code risk assessment directly into their CI/CD pipelines. This shift-left approach allows security teams to identify and mitigate potential vulnerabilities before runtime, addressing risks at the earliest stages of application development. The solution delivers comprehensive, agent-based security for EC2 and containerized workloads at scale and provides agentless discovery and detection across the AWS service portfolio. By integrating with AWS Built-in capabilities, Falcon Cloud Security supports automated deployment in complex, multi-account environments, maintaining consistent security across the organization's entire cloud infrastructure.

Addressing cloud security challenges

In the face of increasingly sophisticated cyber threats, CrowdStrike's solution is designed to mitigate complex attacks that can move laterally in cloud environments in a matter of seconds. By correlating security telemetry from runtime, control plane, and identity-related sources, Falcon Cloud Security can detect and stop advanced attacks in real time. This comprehensive approach eliminates security gaps created by siloed tools and improves overall ROI through tool and dashboard consolidation, eliminating swivel-chair distraction.

Securing AWS migrations with CrowdStrike

By partnering with CrowdStrike and AWS at every stage of the cloud adoption journey, organizations effectively neutralize cybersecurity threats, freeing their talented teams from constant vigilance to focus on what truly matters — building innovative solutions and driving business growth. This strategic alliance doesn't just unlock potential — it creates a secure foundation that transforms security from a constant worry into a competitive advantage.

Industry recognition

FORRESTER®

NAMED A LEADER IN THE FORRESTER WAVE™: CLOUD WORKLOAD SECURITY, Q1 2024

CrowdStrike receives the highest position of all vendors in the Strategy category. receives the highest scores possible in the Vision and Innovation criteria.

FROST & SULLIVAN

CROWDSTRIKE NAMED A LEADER IN THE FROST RADAR™: CLOUD-NATIVE APPLICATION PROTECTION PLATFORMS, 2024

CrowdStrike is "excelling in both innovation and growth indices due to its unified cloud security platform, consistent performance, and tremendous growth over the past four years."

GIGAOM

CROWDSTRIKE NAMED A LEADER IN THE GIGAOM RADAR FOR CLOUD-NATIVE APPLICATION PROTECTION PLATFORMS (CNAPPS)

This leadership underscores CrowdStrike's commitment to modernizing cloud security with a comprehensive, unified CNAPP that stops breaches across every facet of enterprise cloud risk, from infrastructure to applications, data, and AI models.

Get a Falcon Cloud Security Demo →

About CrowdStrike

CrowdStrike (Nasdaq: CRWD), a global cybersecurity leader, has redefined modern security with the world's most advanced cloud-native platform for protecting critical areas of enterprise risk — endpoints and cloud workloads, identity and data.

Powered by the CrowdStrike Security Cloud and world-class AI, the CrowdStrike Falcon® platform leverages real-time indicators of attack, threat intelligence, evolving adversary tradecraft and enriched telemetry from across the enterprise to deliver hyper-accurate detections, automated protection and remediation, elite threat hunting and prioritized observability of vulnerabilities.

Purpose-built in the cloud with a single lightweight-agent architecture, the Falcon platform delivers rapid and scalable deployment, superior protection and performance, reduced complexity and immediate time-to-value.

CrowdStrike: We stop breaches.

Learn more: https://www.crowdstrike.com/
Start a free trial today: https://www.crowdstrike.com/free-trial-guide/

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