



Joint Solution Brief

Effective and Efficient Public Cloud Security

The Challenge

Securing workloads in the public cloud is a shared responsibility. Your organization is responsible for applying the latest technologies and security intelligence to all traffic traversing your cloud workloads. Without physical TAPs or SPAN sessions, complete data in motion visibility within the public cloud is challenging.

Integrated Solution

The Gigamon Visibility Platform for AWS and Cisco FirePOWER offer a combined solution that delivers pervasive visibility into data-in-motion across public, private, and hybrid cloud workloads. Cisco helps ensure market leading security technology and intelligence are available while Gigamon provides efficient and resilient access to the traffic it needs to protect. Security teams can rely on the joint solution to protect their AWS workloads while network and cloud operation teams are assured that the business they support are uninterrupted and well managed.

Joint Solution Benefits

- Provides pervasive Next-Gen Firewall protection including Application Visibility and Control (AVC), Next-Gen IPS (NGIPS), Advanced Malware Protection (AMP), and URL Filtering
- Consistent access to network traffic within and across AWS Virtual Private Clouds (VPC)
- Aggregation and advanced network filtering helps maximize the efficiency of AWS and on-premise deployed FirePOWER devices
- Automatic Target Selection (ATS), using a single agent to multiple tools, provides flexible deployment architecture and optimized EC2 instance performance for your cloud workloads

Introduction

Migrating or deploying workloads into the public cloud introduces a new set of responsibilities and challenges for the teams that manage this move. Security is a shared responsibility between the customer and AWS with limited visibility into the data in motion traversing cloud computing workloads. Inspecting traffic flowing within each segment of your network is virtually essential if you are to spot and stop nefarious activity. This requires multiple tools that need full packet visibility but each tool requires a discrete agent, each mirroring packets. While there are a large and growing number of technologies that can be used for these purposes, deploying them on AWS in a way that is both effective and efficient requires the right approach.

The Gigamon and Cisco Joint Solution

The Cisco FirePOWER System is an integrated suite of network security and traffic management products, deployed either on purpose-built platforms or as a software solution. It delivers comprehensive, unified policy management of firewall functions, application control, threat prevention, and advanced malware protection from the network to the endpoint. Together, the Gigamon Visibility Platform for AWS and Cisco FirePOWER offer a combined solution that helps efficiently meet today's public cloud security needs.

Key Benefits of the Joint Solution

Operational Efficiency

- One consistent way to access, categorize and consolidate the delivery of network traffic to FirePOWER and additional tools (SIEM, APM/NPM, DLP) in the cloud or on-premise
- Advanced filtering options helps ensure only relevant sessions or IP packets are processed by FirePOWER
- Optimized workload performance using a single, lightweight agent

Intelligent Scaling

- Integration with AWS APIs and CloudWatch detects new EC2 compute instances and intelligently scales to meet growing traffic demands as your cloud deployment expands

Pervasive Security

- Elastic, deep visibility into network data within and across AWS VPCs
- Identify vulnerable blind spots and choke points between application workloads to expedite decision making

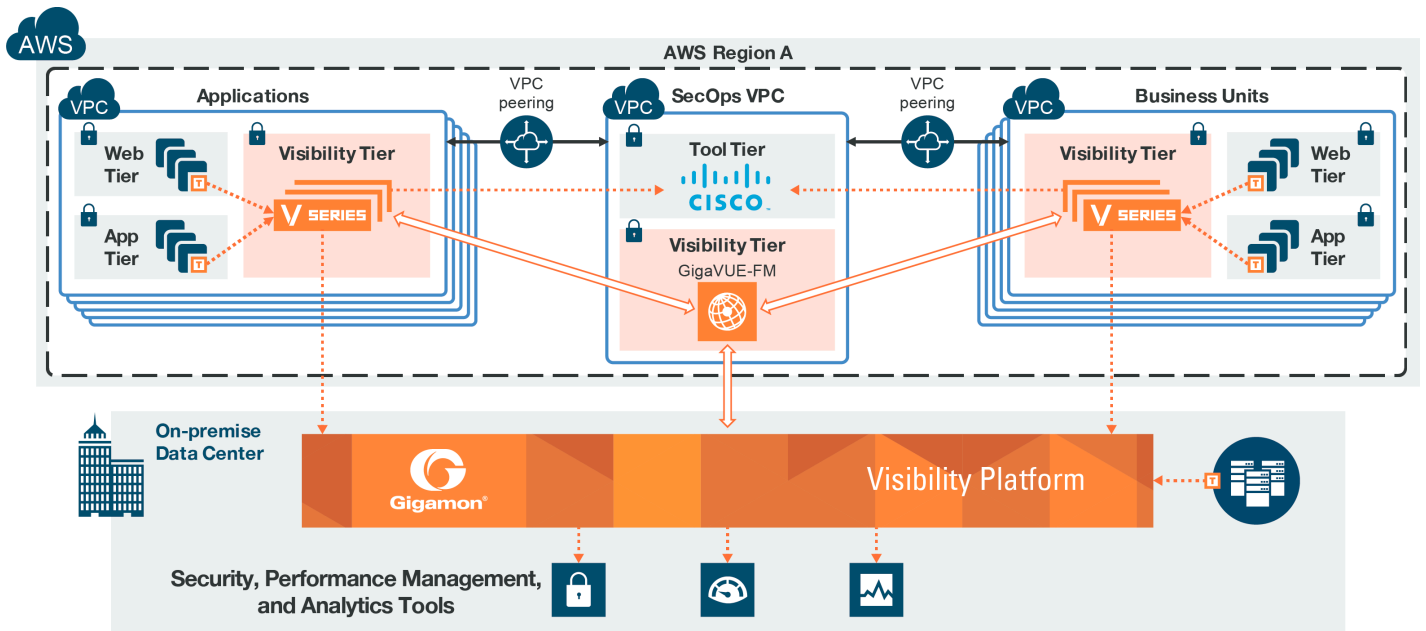


Figure 1. Multi-VPC deployment (applications in separate VPC(s) from centralized visibility and tool tier with back haul to the on-premise Data Center)

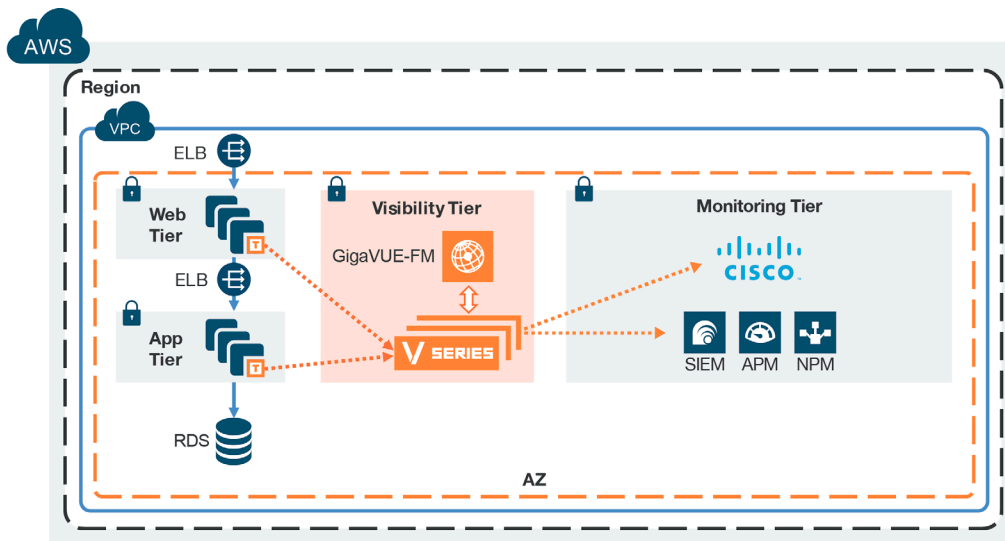


Figure 2. Single VPC deployment (applications, visibility, and tool tier within a single VPC)

Learn More

For more information on the Cisco and Gigamon solution, contact:

