Product Brief

Gigamon Visibility Platform for AWS

Overview

The rapid evolution of Infrastructure-as-a-Service (IaaS), or public clouds, brings instant advantages of economies of scale, elasticity and agility to organizations seeking to modernize their IT infrastructures. Migrating workloads into the public cloud, however, introduces a new set of responsibilities and challenges for the teams that manage this move.

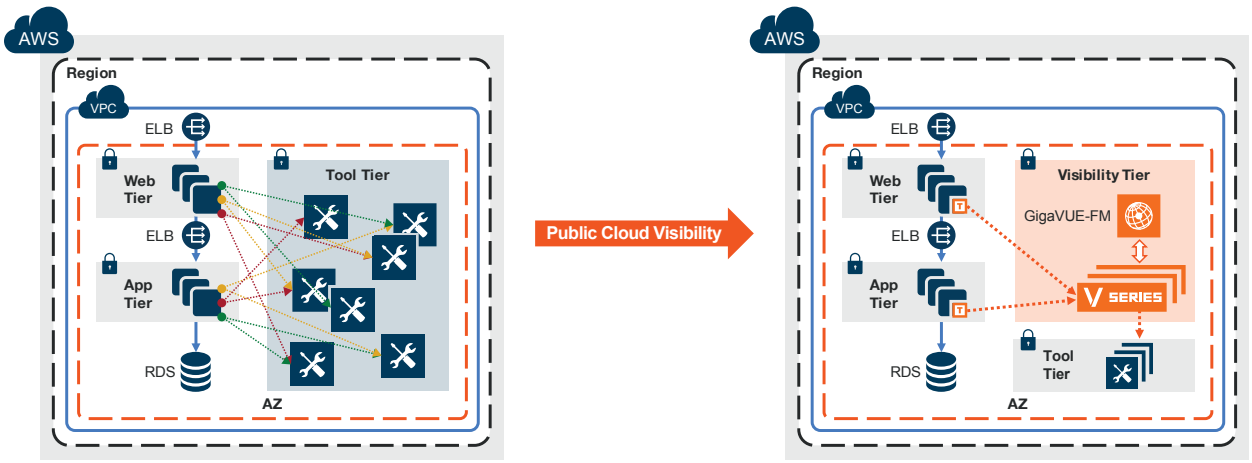
How does an enterprise manage, secure and understand all of its data now traversing the public cloud?

The obvious challenges include the inability to access all traffic and data in support of forensics, customer experience management, advanced threat detection, and monitoring tools, but also includes the lack of visibility into East-West [i.e. web-tier-to-app tier or app tier-to-database] traffic needed for compliancy, lateral threat mitigation, and more. Current security tools that operate in public clouds are lacking complete access to this data of interest.

In an on-premise deployment, there are a number of options to access traffic for real-time analysis: TAPs (physical or virtual), SPAN sessions—although TAPs are the favored method to gain reliable, non-intrusive access to mission-critical data in motion—or a network visibility solution can be used. When deploying applications and workloads in the public cloud, none of these options are available. Agent-based monitoring is an option for monitoring in public clouds, but it could lead to a very complex architecture, especially if multiple tools need access to the same traffic for inspection and analysis as depicted below.

The Solution – Gigamon Visibility Platform for the AWS

An efficient and optimal solution to overcome these challenges is to use the **Gigamon Visibility Platform for AWS**, the industry's first pervasive Visibility Platform that provides consistent visibility into data in motion across the entire enterprise: on-premise, remote sites, public, private and hybrid clouds.



IaaS Visibility Challenges

- Inability to access all traffic
- Discreet vendor monitoring agents per instance
- Impacts workload and VPC performance
- Increases complexity
- Static visibility with heavy disruption

Visibility Solution with Gigamon

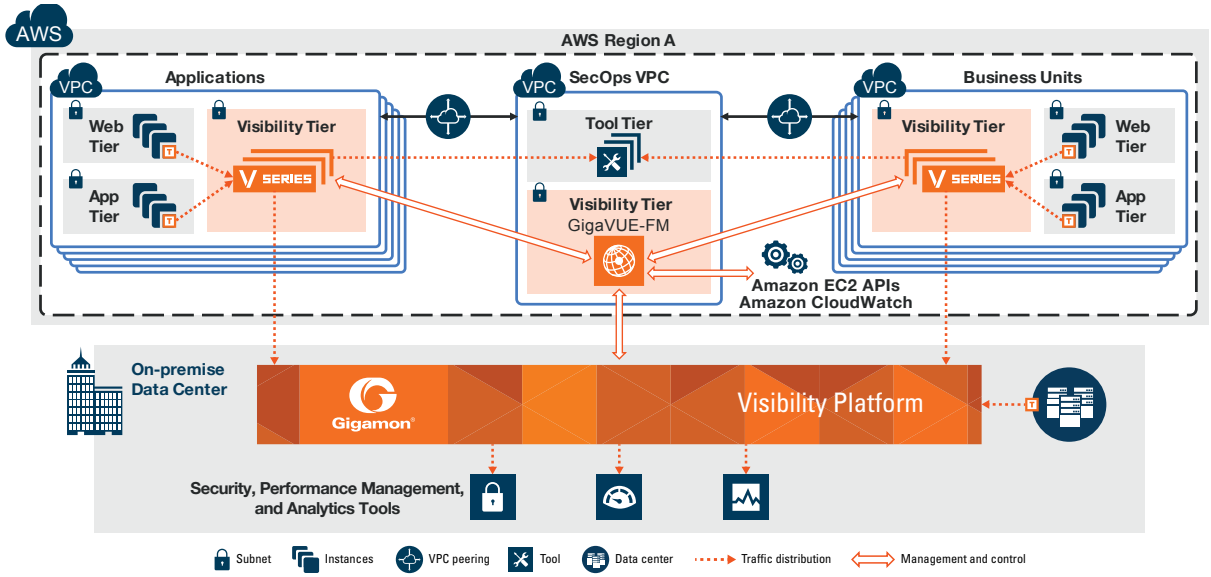
- Consistent way to access network traffic
- Distribute traffic to multiple tools
- Customize traffic to specific tools
- Elastic visibility as workloads scale out

Elastic Load Balancing (ELB) | Subnet | Instances | Tool | Amazon Relational Database Service (RDS) | Availability Zone (AZ) | Traffic distribution | Management and control

Use Cases

Gigamon's Visibility Platform extends its capabilities to the following real-world, flexible cloud deployment models:

1. Hybrid clouds for large enterprises—providing on-premise visibility while preserving tool investment.
2. Scale-out public cloud model with multiple VPCs for applications, business units, or tenants.
3. Enterprises with an all-in approach and have migrated and deployed all their applications to the cloud.



Features and Benefits

Features	Benefits
Traffic Access (G-vTAP™ Agent)	• A user space agent deployed in the elastic compute cloud (EC2) instance to mirror selected traffic and deliver to GigaVUE® V Series visibility nodes • Single agent that can replace multiple vendor agents to consistently access and forward traffic
Traffic Aggregation and Intelligence (GigaVUE V Series)	• Visibility node [available as an Amazon Machine Image (AMI)] that aggregates traffic from multiple agents • Applies intelligence and optimization to the aggregated traffic – Flow Mapping®—select and filter traffic – Slicing—reduce packet size at a specified offset to conserve network backhaul – Sampling—conserve network backhaul by selecting packet rates, for ex. 1 in 10 or 1 in 100 – Masking—ensure compliancy and privacy of the traffic by masking specific offsets • Distributes optimized traffic to cloud-based tools or backhaul to on-premise Gigamon Visibility Platform using standard IP GRE Tunnels
Orchestration (GigaVUE-FM)	• Centralized management application can be deployed either on-premise or in the cloud • Defines traffic policies using simple drag-n-drop UI • Integrates with AWS APIs for EC2 inventory and network topology • Monitors Amazon CloudWatch events to identify EC2 instances spin-up
Elastic and Automated Visibility (Automatic Target Selection)	• Elastically scale out GigaVUE V Series nodes, based on traffic access points • Automatically selects new EC2 instances as part of traffic policies • Allows for continuous and automated visibility while identifying any lateral propagation of threats

In support of flexible deployment models, the Gigamon Visibility Platform for AWS provides pervasive visibility into data in motion across the entire enterprise: on-premise, remote sites, public, private and hybrid clouds. Learn more or test drive the solution today at: **www.gigamon.com/products/public-cloud-aws**

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Gigamon® 3300 Olcott Street, Santa Clara, CA 95054 USA | +1 (408) 831-4000 | www.gigamon.com