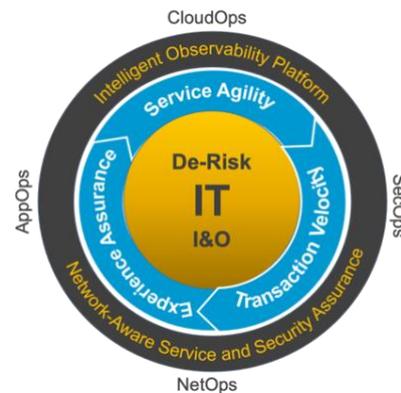


Gain IT Observability for AWS

Understand, Optimize, and Secure your AWS Environment

Migrating application workloads to the Amazon Web Services (AWS) cloud is accelerating, and the network and security architectures evolving. New developments and services from AWS and tool suppliers offer options and choices for observing networks and applications from experience and security perspectives. As more data processing shifts to cloud, the focus turns to IT solutions that strengthen security, accelerate incident response, and reduce service outages in AWS infrastructure.

The requirements for efficient IT operations with faster time to resolution and incident response has led the focus on cPacket's network-centric observability based on agentless probes and tapping techniques. For greater simplicity and less exposure to cyberthreats, agentless solutions are preferred. Utilizing the [AWS Gateway Load Balancer \(GWLB\)](#), [GWLB Endpoint \(GWLBE\)](#) and [VPC Traffic Mirroring](#) services enable network packet forwarding and the resultant visibility to be less impactful to the workload and allows telemetry to be replicated and forwarded to observability and security tools.



What cPacket Networks Offers with AWS

The cPacket [cCloud™ Visibility Suite](#) provides IT operations and security teams with an observability service chain that consists of agentless self-hosted virtual packet brokering, flow generation, packet capture, and network analytics services.

Network-Centric IT Observability Derived from Cloud Traffic Analytics

Ready-to-deploy cPacket images are available for AWS that consist of:

- [cClear®-V](#) – Centralized, single-pane-of-glass management and observability dashboards for observing service-level indicators (SLI). Supports network ingest for partner device flows, meta-data, and analytics that are natively available in the cloud platform
- [cStor®-V](#) - Packet capture-to-storage observability node for historic data playback, stateful application analysis, and security forensics
- [cVu®-V](#) – Packet brokering observability node including packet replication, slicing, filtering, deduplication, and packet-to-flow conversion
- Above cPacket observability nodes support AWS VPC Traffic Mirroring and [GWLB/GWLBE](#) for scalable and simplified management for large deployments, Inter-VPC/[Transit Gateway \(TGW\)](#), and north-south [Internet Gateway \(IGW\)](#)

What customers say:

"The cPacket solution helped us reduce cost and complexity during and post AWS cloud migration. It enabled us to port our workflows and have seamless observability across the board."

– Sr. Cloud Architect at a major Financial Software Company

Turn Traffic into Observability

How cPacket Solution Helps IT Teams Leverage AWS GWLB/GWLBE and VPC Traffic Mirroring

The AWS GWLB located in the selected VPCs forwards the network data from the VPC Traffic Mirroring sessions to the centralized GWLB. The GWLB service load balances traffic across multiple cPacket cVu-V packet brokering observability nodes via GENEVE tunnels allowing transparent insertion, enhanced serviceability, and horizontal scaling. The data is ultimately received by the third-party virtual appliances and cPacket cClear-V and cStor-V for observability and analysis.

Key Benefits

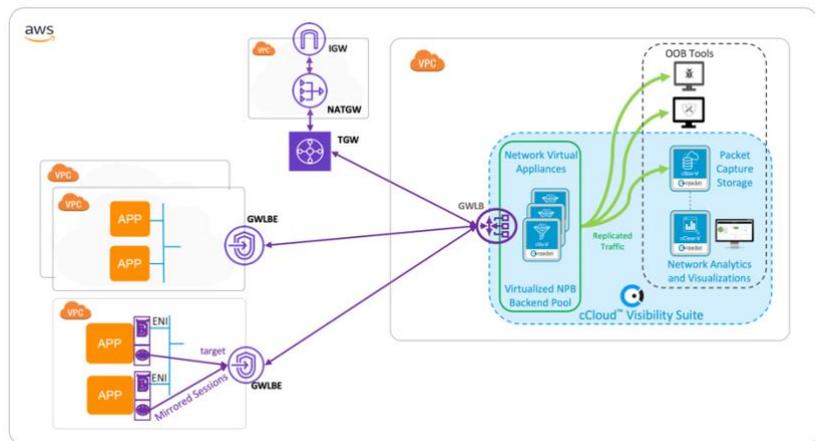
- Reduce Service Outages**
 Network-centric application analysis and observability helps business continuity and better experiences.
- Strengthen Cyber Security**
 Reliably feed high-resolution network data to NDR, XDR, and MDR tools for threat detection
- Accelerate Incident Response**
 Capture and store network packet data for forensic analysis, compliance and troubleshooting.

AWS VPC Traffic Mirroring and Gateway Load Balancer Endpoint

VPC Traffic Mirroring replicates network traffic flowing to and from Amazon Elastic Compute Cloud (Amazon EC2) instances and replicates Elastic Network Interface (ENI) traffic sending the mirrored session to the cVu-V packet brokering observability nodes for forwarding services and load balancing to out-of-band tools for observability and security. cVu-V instances can be added or removed as needed minimizing downtime. To simplify larger deployments with multiple VPCs and GWLBE, mirrored sessions can be forwarded to the GWLBE target for collection.

AWS Gateway Load Balancer and cPacket Observability

This use-case includes ingress, egress, and inter-VPC east-west traffic observability from multiple VPCs. cPacket cVu-V sit as scalable observability nodes behind the GWLB service in a fault tolerant load-balanced group (using NLB), controlled-forwarding traffic to cStor-V packet capture observability node and cPacket’s cClear-V observability, analytics, and management solution.



cPacket Observability with Amazon VPC Traffic Mirroring and GWLB/GWLBE