SOLUTION BRIEF

Comprehensive Network Observability for Microsoft Azure

The cCloud™ Visibility Suite Provides Visibility and Network Packet Data that Helps Maximize Security and Experiences

Business Benefits

- **Strong Security Posture**
  Reliably provides visibility and deliversdata and network intelligence for Network Detection and Response
- Assure End-User Experiences
  Comprehensive visibility assures reliable and responsive experiences with network-aware application dependencies
- **Minimize Visibility Costs**
  Agentless solution minimizes packet mirroring costs versus using agent, sensor, and vTap solutions

Technology Benefits

- **Full Cloud Observability**
  Captures, multiplies, relays, filters, andload balances packets from strategic locations in your Azure environment
- Fast Time to Value
  Just one person within one day can deploy using Azure-specific machine images, scripts, installers, and configurations
- **Lower Operational Risks**
  High-quality real-time and historical packet and flow data strengthen security, and minimize unplanned service disruptions and outages

The Challenge

Customer satisfaction, competitiveness, operational efficiency, and profitability all rely on secure and responsive cloud-hosted applications. Therefore, visibilityis essential for IT Operations to efficiently assure that network-aware application performance and end-user experiences are secure and responsive. Ideal actionable visibility and data come from network packet and flow data becauseit provides a thorough understanding of cyber-attacks, malware behavior, and the interactions between end-users, IoT devices, applications, and services. Butaccessing network traffic can be challenging in public cloud environments.

The Solution

cPacket Networks and Microsoft have partnered to address these challenges by providing comprehensive visibility into workloads running in Azure. The hallmark of the solution uses the cVu-V® virtual packet broker in an agentless inline configuration that monitors subnet ingress and egress traffic, versus using agent-based solutions and tapping into virtualized networks. Also integrated with Azure Gateway Load Balancer (GWLB) to simplify the configuration and setup, extending the service chain without user-defined routes. The cVu-V solution captures, pre-processes, and delivers the correct packet data in real-time to security, performance management, analytics, and AIOps tools. This greatly simplifies the monitoring topology and reduces overall observability cost and complexity. The cCloud Visibility Suite seamlessly works with on-premises virtualized environments such as Azure Stack that uses Microsoft Hyper-V and other virtualized environments such as Cisco NFVIS, VMware ESXi, and Redhat KVM. Using the cCloud Visibility Suite for Azure democratizes data, visibility, and actionable intelligence to the NetOps, SecOps, AppOps, CloudOps, and SRE teams by leveraging these tightly integrated tools:

Components and Key Features		
cVu®-V Virtualized Network Packet Brokering	**cStor®-V Virtualized Packet Capture and Storage**	**cClear®-V Data Visualizations, Dashboards, Fabric Management**
Acquires, processes, replicates, and delivers packets to your choice of targets that include security solutions, tools for performance management, storage, and visualization solutions with analytics (i.e., the cClear® Analytics Engine). Packet brokering is compatible with native ingress routing and load balancing services.	Enriches packet data with event tags and timestamps to index and organize the high volume of packets for fast query results, retrieval, and reporting. Forensic analysis of threats and sessions includes viewing actual traffic before, during, and after events of interest by playing specific sequences of stored packets.	Packets, traffic, KPI metrics, and analytics results are visualized in predefined and customizable interactive dashboards. The user interface includes the administration console for configuring and managing the entire cPacket physical and virtual Visibility Fabric. All within a single-pane-of-glass.

End-to-End Observability, Data for Multi-Cloud and Hybrid Environments

cPacket's broader portfolio includes similar interoperable physical appliances (cTap®, cVu®, cProbe®, cStor®, and cClear®) that when used with the cCloud suite provides unified visibility that seamlessly spans multi-cloud and hybrid environments for branch offices, campuses, distributed enterprises, and data centers.

Advanced Packet Processing Increases IT Operational Efficiency

cVu-V has advanced processing features such as filtering, traffic aggregation, and load balancing that provides comprehensive visibility and data within your Azure environment. These features reliably deliver the correct data to each tool in real-time to increase time-to-results and reduce unnecessary traffic.

Packet and Flow Data Capture Strengthen Cybersecurity

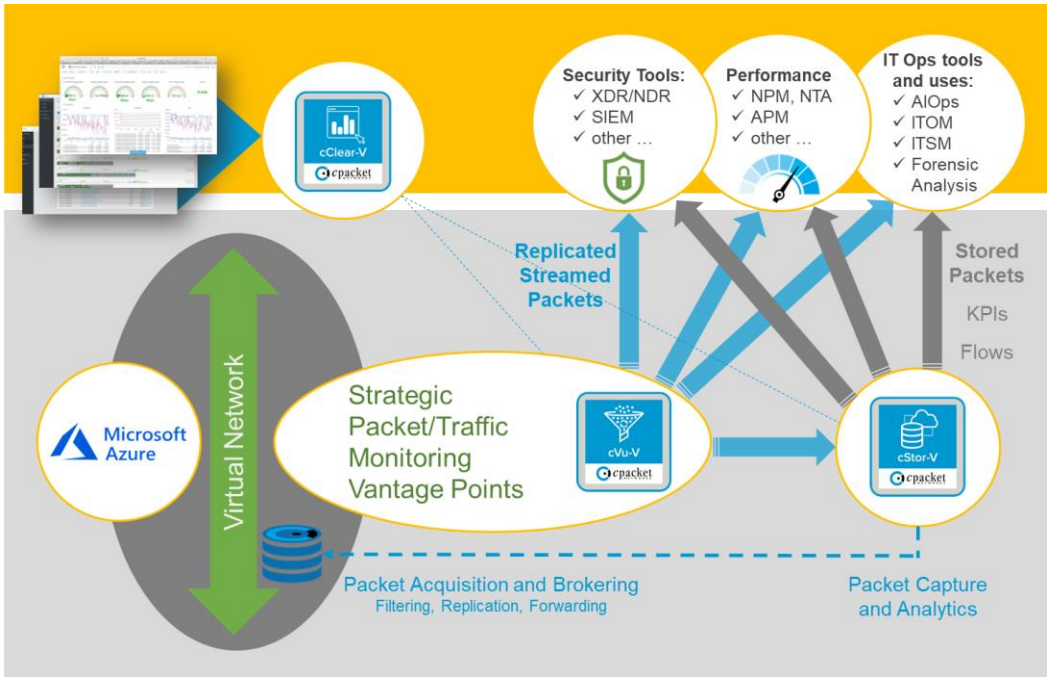
Microsoft Azure customers are responsible for securing all data and applications in their respective VPC environment and should use cCloud components to process, multiply, and relay packets to Network Detection and Response and other cybersecurity prevention solutions. cProbe-V should be used to provide flow data to SIEM tools. cStor-V should be used for forensic analysis, incident response, regulatory compliance, and record keeping.

Visibility, Reliable Data Acquisition, and Analytics Drive Experience Assurance

Data, analytics, and AIOps results from the packet and flow data presented in customizable dashboards using cClear-V facilitate monitoring, baselining, and optimizing network-aware application performance. Dashboards and alerts give actionable intelligence to assure that end-user experiences meet business needs and service level agreements. Data should also be relayed by cVu-V to AIOps solutions so they can provide additional actionable intelligence and automation to further improve experience assurance, operational efficiency, and mean time to resolution (MTTR).

Intra-Cloud Traffic Monitoring for Assuring Cloud Migration Success

Intra-cloud traffic visibility, network packet data and, KPIs provides Application Performance Monitoring tools necessary data to help successfully migrate new cloud-native applications and lift-and-shift legacy applications.



The cCloud Visibility Suite enables traffic monitoring and packet brokering to create a visibility service chain

About cPacket Networks

cPacket Networks enables IT through network-aware application performance and security assurance across the distributed hybrid environment. Our AIOps-ready single-pane-of-glass analytics provide the deep network visibility required for today's complex IT environments. With cPacket, you can efficiently manage, secure, and future-proof your network - enabling digital transformation. cPacket solutions are fully reliable, tightly integrated, and consistently simple. cPacket enables organizations around the world to keep their business running. Our cutting-edge technology enables network, application, and security teams to proactively identify issues before negatively impacting the business. The result: increased security, reduced complexity, and increased operational efficiency. Learn more at www.cpacket.com

About Microsoft

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