Inspect, monitor, and manipulate packets across hybrid cloud environments

Cloud Intelligence Platform (CIP) enables deep polarized packet data visibility across hybrid cloud

As the adoption of cloud computing grows among organizations, enterprises, and governments, there is an increasing need for innovative business models and efficient digital transformation strategies. One key aspect of successful cloud adoption is the ability to effectively monitor and analyze network traffic in the cloud, multi-cloud, and hybrid cloud environments. This helps organizations to ensure the performance and security of their applications, as well as to optimize their overall IT operations in a holistic model with coherent, secure, and improved user experience. In the modern digital landscape, having strong visibility into network traffic across the wide spectrum of abstracted physical and virtual services is becoming essential for scalable and efficient IT operations. As a result, many organizations are turning to solutions such as virtualized, cloud-native Packet Broker to help them achieve this visibility and improve the performance and security of their entire cloud-based design, deployment, and operational strategies.

Delivering the right packet data to the right cloud-native tools

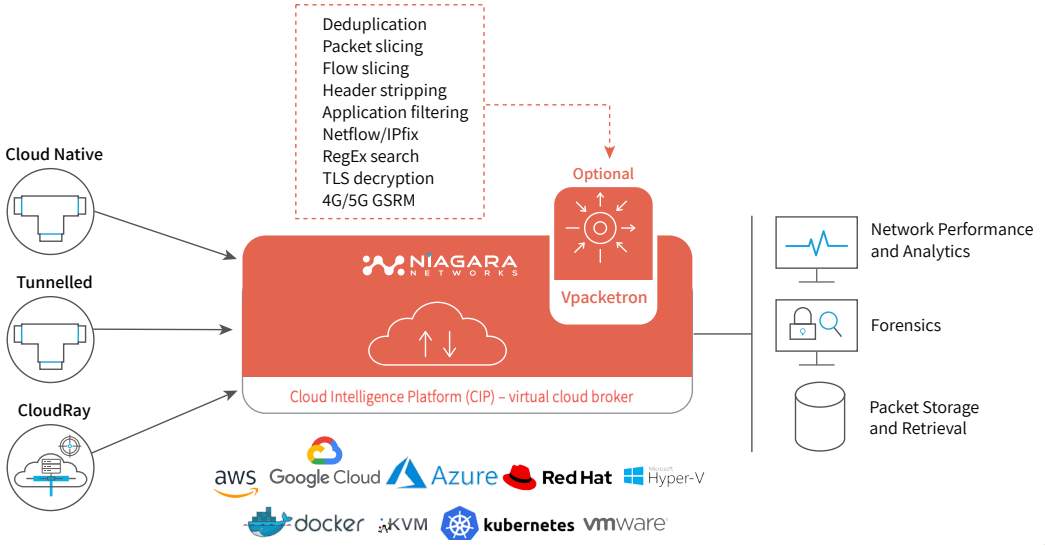
To enable virtualized infrastructure and cloud visibility, Niagara Networks developed a state-of-the-art traffic optimization platform for the virtual environment. Cloud Intelligence Platform (CIP) facilitates the virtual visibility environment with a full set of traffic optimization features. Niagara Networks' CIP is a virtualized cloud packet broker for collecting, aggregating, filtering, replicating, and delivering network packets to Security and Network Operations Centers (SOC/NOC), as well as to multiple IT lakes, that feed and serves security and performance management tools. Niagara Networks' CIP allows organizations to manage the flow of network traffic, enabling them to better protect their digital assets and improve the performance of their hybrid networks efficiently and effectively.

Product Highlights

- Supports private and public cloud environments
- IPv4 and IPv6 support
- Packet Filtering
- Flow based load balancing
- Packet replication
- Traffic mirroring
- GRE/ NVGRE/ VXLAN/ GENEVE/ ERSPAN termination
- GRE/ VXLAN encapsulation
- Role-based administration
- Central Web-based configurator
- Ansible configuration*
- vPacketron support
  - Deduplication
  - Packet slicing
  - Flow slicing
  - Application Filtering
  - Data Masking
  - Generic Header Stripping
  - NETFLOW/ IPfix generation
  - Regular Expression filtering
  - TCP Reordering*
  - Mobile Visibility*
  - TLS Decryption*
  - URL / SNI filtering / load balancing*

A comprehensive set of visibility functions across all Niagara Networks' packet brokers:

Coherent Visibility Solution



Solution Value Proposition for Hybrid Cloud Environments

Niagara Networks' Cloud Intelligence Platform (CIP) solution provides a single, holistic platform that allows security, network, and application analysts working at different locations to access and analyze network traffic. This solution is particularly useful for organizations that have security tools and analysts located at various geographically dispersed sites.

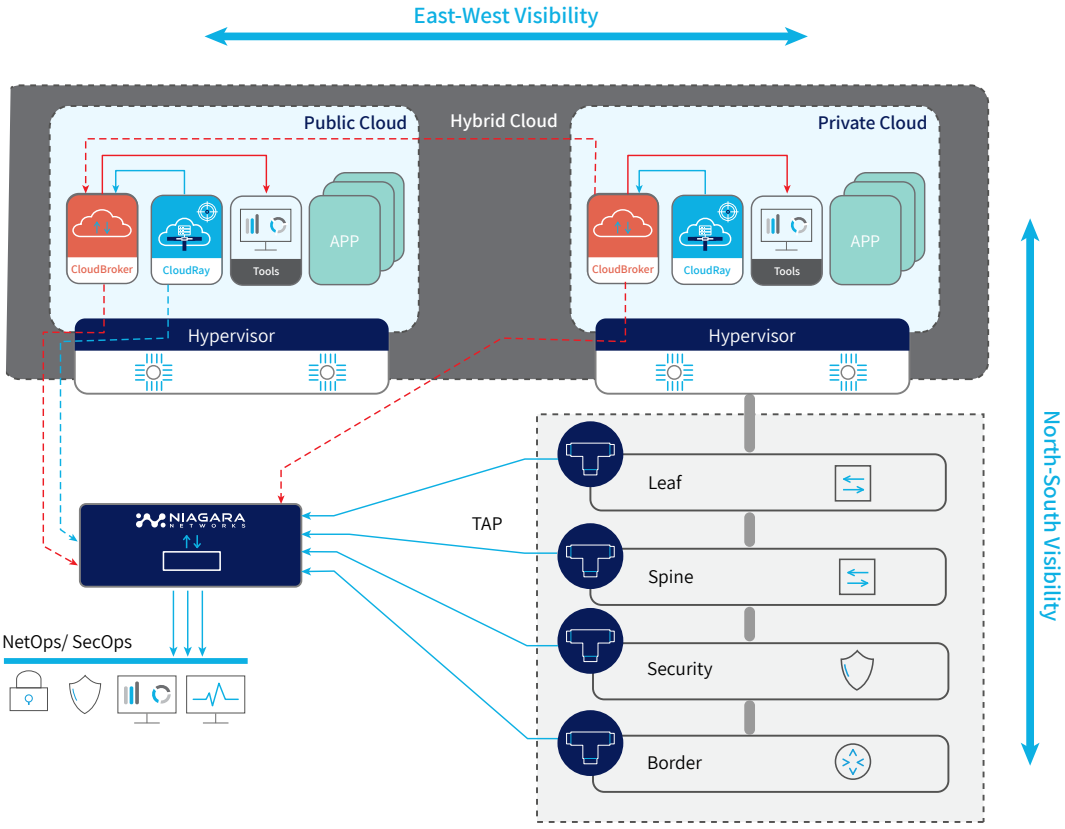
Niagara Networks' CIP compounds a set of multiple virtual packet brokers, enabling analysts to effectively monitor and analyze traffic for threats by collecting, aggregating, replicating, filtering, and forwarding network packet flows. This improves the organization's overall security posture. The virtual packet broker solution is also flexible and scalable, able to meet the needs of an organization as it grows and evolves. This makes it an ideal solution for organizations with hybrid IT environments.

To empower the IT teams with 360° visibility, the Virtual TAPs from Niagara Networks can be deployed and orchestrated to scale on any virtual infrastructure, including private data centers and private or public clouds. This allows organizations to use virtual TAPs to monitor and analyze network traffic on their virtual infrastructure, regardless of where it is located. By providing end-to-end visibility across a hybrid IT environment, virtual TAPs help organizations to better protect their digital assets and optimize network performance. They are also flexible and scalable, able to meet the needs of an organization as it grows and evolves. Combining virtual TAPs with a virtual network packet broker offers organizations an efficient IT toolkit for cloud intelligence that can streamline operations, increase threat detection, and optimize performance in hybrid cloud environments.

- 360° comprehensive visibility across any virtualized infrastructure - AWS, AZURE, GCP and VMWare ESXi
- Architecture agnostic – deployed in public, private and hybrid cloud
- Deliver y& prioritization of the right traffic to the right virtual tools
- Seamless and fast installation with low TCO
- Enables agile visibility solution across VPC regions for strict SLA

Enables improved visibility for NetSecAppOps

Multi-purpose solution for East-West and North South Deployments – combining physical and virtual infrastructure



Specifications

Environment	Description
Public cloud	Google Cloud Platform (GCP) Amazon Web Services (AWS) Microsoft Azure
Private Cloud	Vmware (ESXi, vSphere*, NSX-T*, NSX-V*) Microsoft HyperV* OpenStack* KVM* Nutanix*
Supported OS	Debian 12 (Bookworm only), Ubuntu 22.04 LTS
Homogeneous cloud	
AWS GCP Azure	Vmware cloud on AWS* Google Cloud Vmware Engine* Azure Vmware solution*
Container / Kubernetes	
AWS GCP Azure Vmware	Amazon Elastic Kubernetes Services (EKS)* Google Kubernetes Engine (GKE)* Azure Kubernetes Service (AKS)* VMware Tanzu* VMware Tanzu Kubernetes Grid*
Packet Broker	Packet Filtering IPv4 and IPv6 supported Packet Replication Traffic Mirroring GRE / VXLAN / NVGRE / GENEVE / ERSPAN termination, tunnel-in-tunnel GENEVE / ERSPAN and stacked tunnels GRE / VXLAN initiation VLAN tag manipulation
vPacketron	Deduplication Packet slicing Flow slicing Application filtering Data masking Generic header stripping Netflow / IPfix generation Regular Expression (RegExp) filtering TCP reordering* Mobile Visibility* TLS Decryption* URL / SNI filtering / load balancing*
Performance per instance	
vPorts	up to 60 per virtual interface , up to 3-8 supported virtual interfaces
vTargets	Up to 25
Monitoring Rate / Instance	Contact our support team for more information
vCPU / Memory / Sys Disk	8+ (for 3 interfaces), 16+ (for 8 interfaces)
Maximum Monitoring Throughput	Contact our support team for more information
High Performance Mode	DPDK/SR-IOV

** Roadmap or planned. Check with your sales representative for the most current product release information*

Ordering Information

Base licenses	
CIP-BASE-50	Niagara Cloud Intelligence Platform Base license for up to 50TB/day. For Public cloud and Virtual environments, monthly Term license. Min Term is 12 months. Includes 5 vPort and 2 vTarget licenses, includes GRE, NVGRE, Vxlan and GENEVE header stripping, Advanced load balancing.
CIP-BASE-250	Niagara Cloud Intelligence Platform Base license for up to 250TB/day. For Public cloud and Virtual environments, monthly Term license. Min Term is 12 months. Includes 5 vPort and 2 vTarget licenses, includes GRE, NVGRE, Vxlan and GENEVE header stripping, Advanced load balancing.
CIP-BASE-2500	Niagara Cloud Intelligence Platform Base license for up to 2500TB/day. For Public cloud and Virtual environments, monthly Term license. Min Term is 12 months. Includes 5 vPort and 2 vTarget licenses, includes GRE, NVGRE, Vxlan and Geneve header stripping, Advanced load balancing.
CIP-BASE-UL	Niagara Cloud Intelligence Platform Base license unlimited. For Public cloud and Virtual environments, monthly Term license. Min Term is 12 months. Includes 5 vPort and 2 vTarget licenses, includes GRE, NVGRE, Vxlan and GENEVE header stripping, Advanced load balancing
Port licenses	
CIP-VPORT-5	Additional licensing for 5 ingress vPorts on one virtual interface - 1 year subscription
CIP-VTARGET-5	Additional licensing for 5 vTargets - 1 year subscription
Packetron licenses	
VPKTRN-PSL	Packet Slicing, Removes user defined payload part of a packet. Virtual Packetron 1 year subscription
VPKTRN-DDUP	Removes duplicate packets. Virtual Packetron 1 year subscription
VKPTRN-NETFL	Generates NetFlow report to Collectors. Virtual Packetron 1 year subscription
VPKTRN-APPFLT	Application Filtering. Virtual Packetron 1 year subscription
VPKTRN-DMASK	Data masking of specified byte(s) length in the packet. Multiple masks supported. Virtual Packetron 1 year subscription
VPKTRN-RXS	Regex Patterns application. Expansion for filtering and data masking capabilities. Virtual Packetron 1 year subscription
VPKTRN-FSL	Flow Slicing, Forwards a user defined amount of packets after which subsequent packets of the same flow are discarded. Virtual Packetron 1 year subscription
VPKTRN-HSTP	Generic header stripping. Virtual Packetron 1 year subscription
VPKTRN-RODR*	TCP Packet reordering. Virtual Packetron 1 year subscription
VPKTRN-PINL*	Inline decryption deployment. Passive inline - supports sending decrypted traffic to out-of-band appliance. Virtual Packetron 1 year subscription
VPKTRN-MV4G*	Mobile Subscriber-aware Visibility (3G/4G). Correlated filtering and load balancing. Uncorrelated load balancing. Virtual Packetron 1 year subscription

About Niagara Networks

Niagara Networks provides high performance network visibility solutions for seamless administration of security solutions, performance management and network monitoring. Niagara Networks products provide advantages in terms of network operation expenses, downtime, and total cost of ownership. A former division of Interface Masters, Niagara Networks provides all the building blocks for an advanced Visibility Adaptation Layer at all data rates up to 100Gb, including TAPs, bypass elements, packet brokers and a unified management layer. Thanks to its integrated in-house capabilities and tailor-made development cycle, Niagara Networks is agile in responding to market trends and in meeting the customized needs of service providers, enterprises, data centers, and government agencies. For more information please visit us at www.niagaranetworks.com.

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