# Uila & Niagara Networks Integration: Full Visibility across Physical, Virtual & Cloud Deployments

The Challenge

Enterprise Data Center architecture has evolved dramatically in recent years, enabling it to effectively run large-scale, distributed multi-tier applications across Public, Private and hybrid cloud environments, To support and ultimately ensure the delivery of business critical applications and services, an elastic data center and cloud architecture and agile development model has emerged to share workloads, data and resources. Data Center traffic is estimated at 11 ZB and growing at 25% CAGR*. A majority (85%*) of this traffic is east-west traffic (between VMs on the same host, between VMs across hosts in the DC, etc.), which makes it mandatory for any monitoring solution to be able to get full-visibility into not only the north-south traffic, but more importantly this east-west traffic within the virtual environment. Also more application workloads and compute instances (73 %*) are getting rolled out in the Public cloud as compared to the Private cloud (27 %), leading to the now-common Hybrid Cloud or even Multi-Cloud paradigm. As these applications span physical, virtual and cloud networks and infrastructure, collecting this traffic data in a highly scalable and affordable manner for analysis across cloud boundaries is critical for organizations to gather actionable intelligence for their business-critical applications.

Uila & Niagara Networks Integration

Uila integrates natively with Niagara Networks to provide full visibility into the virtualized environment, including Data Centers and Cloud deployments. Uila's virtual Taps monitor for east-west traffic between VMs in the same host as well as VMs across hosts in the Data Center as well as traffic in the Public Cloud (AWS, Azure, GCP, others). The captured traffic is then forwarded to the Niagara Network Packet Broker (NPB) for deeper traffic analysis, including identification of known, suspicious, and unknown traffic passing through the combined physical, virtual and cloud network. Selected raw data packets from the network interfaces (typically via SPAN or tap points) can be directed to specific network service and monitoring devices, and performance management and security applications.
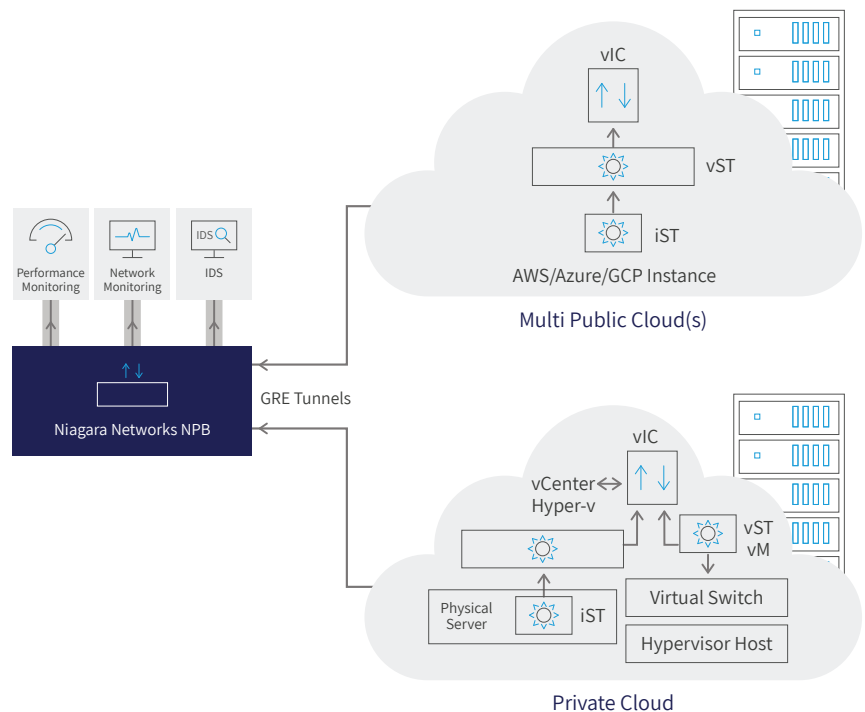
Features & Benefits of Integration

Seamless visibility into Physical and Virtual Infrastructure - Capture Network traffic across both physical and virtual infrastructure deployments, including Public Cloud with a single integrated solution.

Agentless Monitoring of the Virtual Infrastructure in the Data Center - The Uila-Niagara integration needs no agents for traffic capture like other APM solutions, so IT teams can monitor any host or application without special approvals from app owners.

Small virtual Tap footprint for high scalability - The Uila virtual Tap installs in the hypervisor (e.g. ESXi) in a small footprint and is efficiently designed as a guest Virtual Machine where it promiscuously listens to all traffic from the virtual switch that traverses the virtual networks (North-South and East-West).

Visibility into Network Virtualization deployments such as VMware NSX - Complete visibility into Network Virtualization deployments for monitoring virtual network infrastructure and for building network micro-segmentation plans.

Multi-cloud traffic capture - With Uila's cloud instance taps, traffic can be captured for any instance/VM for any Public Cloud vendor deployment (AWS, Azure, VMware on AWS, Google Cloud, IBM Cloud, etc.).

Centralized Management - Centralized management of Uila virtual Taps from a single and simple interface that is accessible from the cloud.

Reduced Time-to-value - Uila's plug-and-play virtual Taps are easy to roll-out and typical installations take less than an hour.

Upgrade to Full Data Visibility with Uila
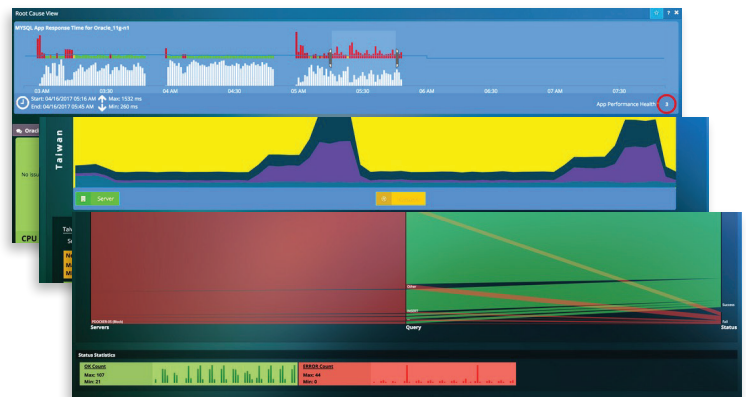
Users also have the option to upgrade to enable the full performance and security analysis for applications and networks using Uila as an overlay monitoring solution.

About Uila

Uila provides Multi-Cloud Monitoring & Analytics in a single pane of glass for the Digital Enterprise. With Uila, IT Operations and Cloud IT teams can visualize application workload dependencies across cloud platforms, right size resources and investments for their workloads and plan workload migration strategies for Hybrid and Multi-Cloud deployments. IT teams can also identify performance bottlenecks for business-critical services using full-stack correlation with 1-click root cause analysis and a patented Deep Packet Inspection technology that understands over 3,000 application protocols for transactional meta data analysis. Businesses use Uila to align themselves with their IT teams and cut time to resolution from days to minutes, keep their application at peak performance at all time and ensure end-user satisfaction to the fullest across cloud boundaries.

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 are agile in responding to market trends and in meeting the customized needs of service providers, enterprise, data centers, and government agencies.