NIAGARA NETWORKS

Datasheet

Niagara Networks' CloudRay - Virtual TAP

Enables 100% visibility of virtual network traffic for superior monitoring capabilities in private, hybrid and public clouds

Overview

With increasing transition to data center and cloud based environments, IT teams find it challenging to use traditional monitoring tools for traffic visibility. Physical TAPs are unsuitable for virtual environments since they cannot monitor East-West and inter-VM traffic. Moreover, they cannot track VMs when moved across hypervisors. Niagara Networks' CloudRay vTAP is a software solution that addresses these challenges, providing complete visibility of VM traffic in virtual computing environments, be it Private, Public or Hybrid clouds.

Key Benefits

- Enables Visibility-as-a-Service (VaaS)
- Private, Public, and Hybrid cloud visibility
- Blind spot removal with total visibility of East-West, inter-VM and blade server mid-plane traffic
- Reduced network bandwidth with multi-layer filtering
- Centralized control with dashboard for orchestration and monitoring
- Enabling SLA compliance and troubleshooting
- One touch installation enabling bulk deployments
- Complements existing physical TAPs

Key Features

- Enables 100% visibility of VMs traffic
- Supports VM traffic up to 10Gbs
- Supports VXLAN and GRE tunneling
- Advanced traffic filtering support
- Supports KVM, VMware ESXi and Microsoft Hyper-V
- Supports Amazon EC2, Microsoft Azure, and Google GCP cloud services
- IPv6 TAP support for AWS, GCP and Azure
- Supports forwarding tapped traffic to multiple collectors in a public cloud environment
- Supports VMware vSS, vVDS and Open vSwitch (OVS)
- Packet slicing
- Single pane of glass-based management

Private Cloud Visibility
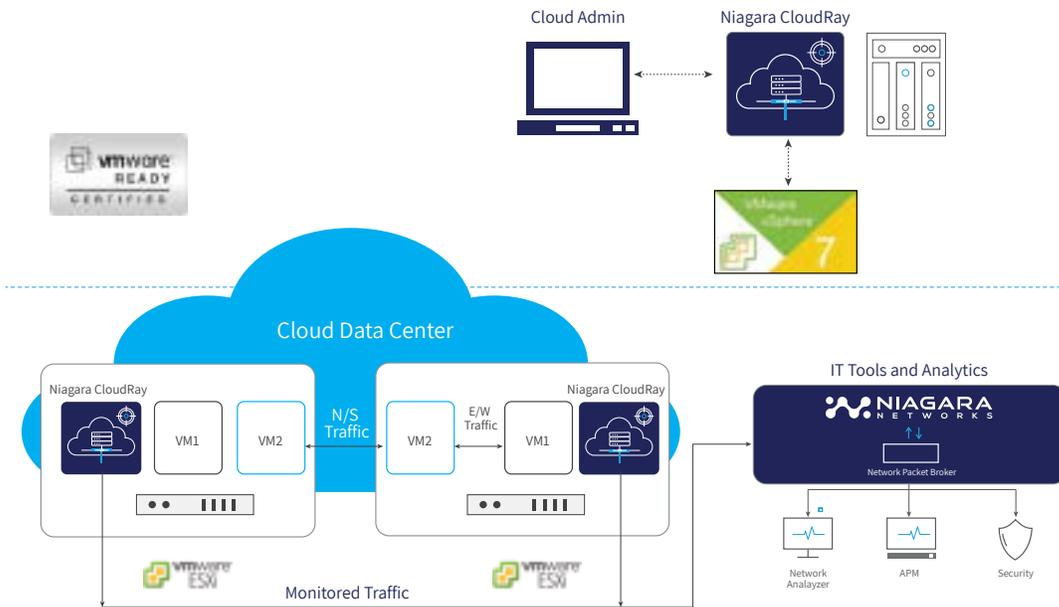
Niagara CloudRay deployment scenario

Niagara Networks' CloudRay vTAP can replicate all VM traffic without interrupting the regular VM traffic streams with very minimal processing overheads to the hypervisor. The tapped traffic is sent to any monitoring tools of choice. Niagara Networks' CloudRay vTAP can work in conjunction with Niagara's existing physical network TAP solutions, thus supporting existing hybrid networking environments where both physical and virtual components co-exist.
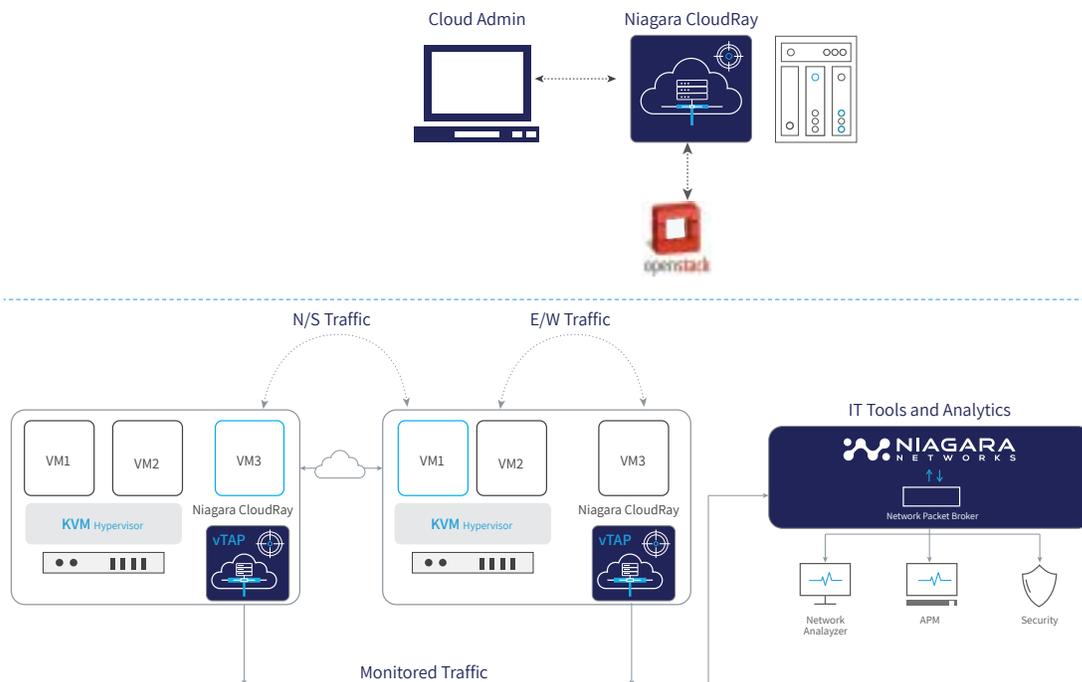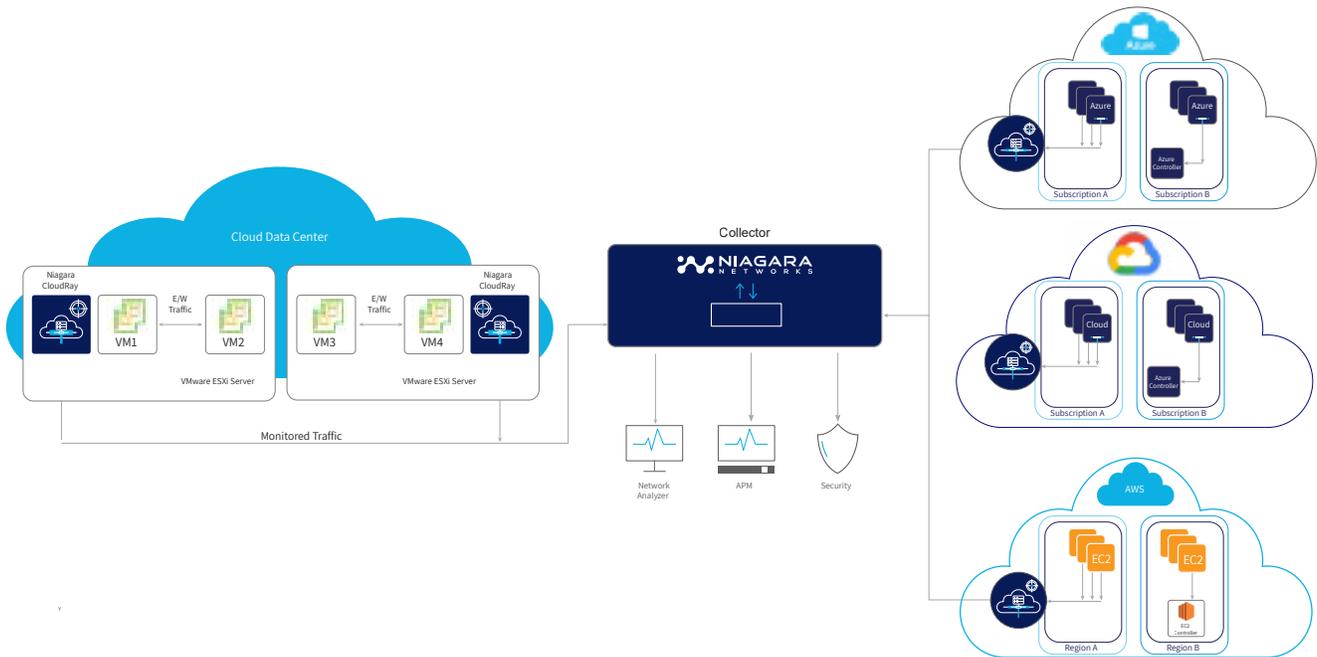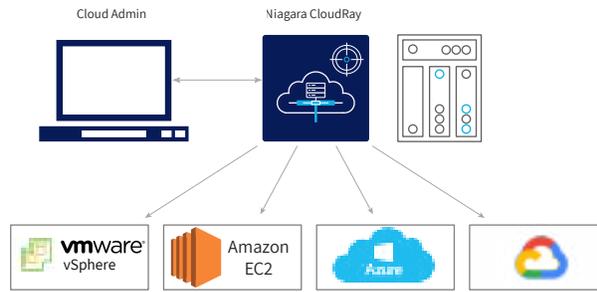

Niagara CloudRay KVM deployment scenario

Extending Visibility to Virtual Networks and Hybrid Clouds

Niagara Networks' CloudRay vTAP can be deployed in public cloud environments such as Amazon EC2, Microsoft Azure, and Google GCP to enable visibility for cloud deployment instances and services. Architectural deployment is compatible with the native cloud environment and enables the vTAP agent to intercept the traffic of interest and send over GRE tunnels to the monitoring infrastructure.

The CloudRay vTAP solution enables visibility for hybrid cloud deployments. The reference architecture can be in several use cases with maximum flexibility, where the virtual TAP can be deployed and orchestrated in private cloud, public, and on-prem IT environments.

Niagara CloudRay Hybrid deployment scenario

Contact us for a demo

Specifications

Hypervisor	• Supports VMware vCenter 6.5, 6.7, and 7.0 • KVM with Openstack (Queens, Ocata, Newton) • KVM with RHOSP 10, 13
Controller VM	• Two vCPUs • 2GB RAM, 8GB virtual disk storage
TAP VM	• One vCPU • 512MB to 2GB RAM, 1GB virtual disk storage • Maximum: 10 Network Adapters (Management port, Tunneling port, 8 monitoring ports)

Ordering Details

Part Number	Description
CloudRay 10-S	10 Agent pack. The license applies to the number of installed Agents, 1 license per host (Openstack, RHOPS, VMware). Annual subscription.[1]
CloudRay 20-S	20 Agent pack. The license applies to the number of installed Agents, 1 license per host (Openstack, RHOPS, VMware). Annual subscription.[1]
CloudRay 50-S	50 Agent pack. The license applies to the number of installed Agents, 1 license per host (Openstack, RHOPS, VMware). Annual subscription.[1]
CloudRay 100-S	100 Agent pack. The license applies to the number of installed Agents, 1 license per host (Openstack, RHOPS, VMware). Annual subscription.[1]
CloudRay 250-S	250 Agent pack. The license applies to the number of installed Agents, 1 license per host (Openstack, RHOPS, VMware). Annual subscription.[1]
CloudRay 1000-S	1000 Agent pack. The license applies to the number of installed Agents, 1 license per host (Openstack, RHOPS, VMware). Annual subscription.[1]
CloudRay 100-C	100 Docker Agents Pack. Agents are installed in the virtual workload (ex: AWS); one agent can monitor multiple vNIC in the workload. Annual subscription.[1]
CloudRay 250-C	250 Docker Agents Pack. Agents are installed in the virtual workload (ex: AWS); one agent can monitor multiple vNIC in the workload. Annual subscription.[1]
CloudRay 1000-C	1000 Docker Agents Pack. Agents are installed in the virtual workload (ex: AWS); one agent can monitor multiple vNIC in the workload. Annual subscription.[1]
CloudRay-ORC	Orchestrator for CloudRay. CloudRay Orchestrator can manage 3000 agents. Annual subscription. CloudRay agents sold separately.

[1] Annual subscription. CloudRay ORC required and sold separately.

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.