

Veryx vTAP

VIRTUAL NETWORK VISIBILITY



Provides 100% visibility of virtual network traffic for superior monitoring capabilities in Data Centers and Cloud

OVERVIEW

With increasing transition to data center and cloud based environments, enterprise IT staff find it challenging to use traditional monitoring tools for traffic visibility. Physical taps are unsuitable for virtual environments since they cannot monitor inter-VM traffic. Moreover, they cannot track VMs when moved across hypervisors. **Veryx vTAP** is a software solution that addresses these challenges, providing complete visibility of VM traffic in virtual computing environments. This solution is industry's first virtual tap supporting KVM hypervisor for OpenStack deployments. Veryx vTAP supports advanced traffic filtering capabilities and tunneling encapsulation - VxLAN, GRE, and VLAN for traffic forwarding.

KEY BENEFITS

- Enables full traffic visibility while retaining complete system resources for hosting VMs. Scales as the network grows
- Consumes less than 2% CPU utilization per hypervisor
- Isolates monitored traffic to avoid interruption with existing network. Optimized monitoring using multi-level traffic filtering
- Complements existing physical taps
- Provides centralised control with single dashboard for VMs orchestration and monitoring
- Enables SLA compliance and trouble-shooting.
- Provides proactive threat detection using full packet analysis.

KEY FEATURES

- Enables 100% visibility of VMs traffic
- Supports traffic isolation at VM and tenant level VxLAN, GRE, and VLAN Tunneling encapsulation
- Advanced traffic filtering support, based on ingress direction/ egress direction/application
- Eliminates physical taps in fully virtualized environment
- Supports industry standard hypervisors including KVM and VMware ESXi*
- Pre-integrated with OpenStack orchestration software
- Supports one touch deployment with zero downtime, since it does not require hypervisor kernel update



* In roadmap

Veryx vTAP is a software based solution that captures data passing between tenant virtual machines (VMs) and sends traffic to infrastructure monitoring tools of choice. Veryx vTAP provides 100% visibility of inter-VM traffic both within and across hypervisors.

Veryx vTAP is not a VM or VNF but a lightweight pluggable software component that resides as a layer over the hypervisor. It installs in the hypervisor as an application along with virtual switch, the software component that manages communication between the virtual network interface controllers (vNICs) of the VMs. This result in negligible amount of system resources and thus allowing service providers to retain system resources for the VMs / VNFs hosted on the systems.

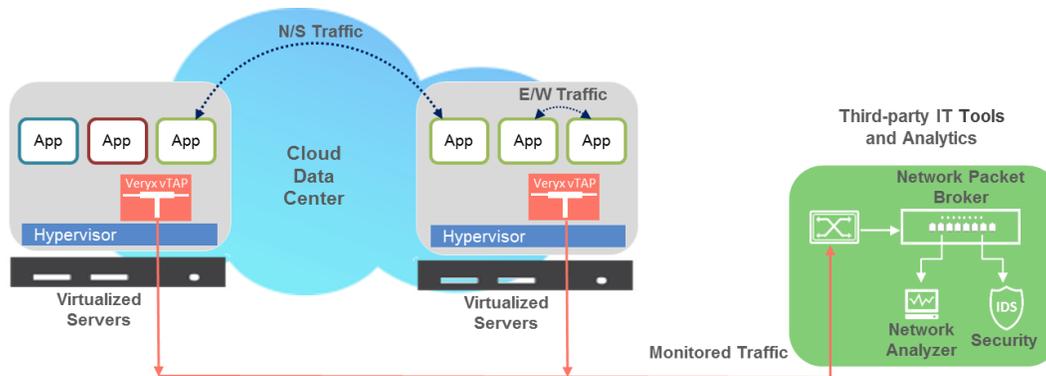


Figure 1: Veryx vTAP deployment scenario

Veryx vTAP can replicate all VM traffic without interrupting the regular VM traffic streams or adding additional processing overheads to hypervisor and sends the traffic to any monitoring tools of choice. It is pre-integrated with OpenStack Orchestration software and provides OpenStack users a capability to orchestrate VMs and virtual network monitoring from a single dashboard. Veryx vTAP can work in conjunction with existing physical network tap solutions, thus supporting existing hybrid networking environments where both physical and virtual components co-exist.

SPECIFICATIONS	
Disk Storage for Controller	10 MB
OpenStack Controller Version	Icehouse
Hypervisor Supported	KVM, ESXi*

* In roadmap

About Veryx Technologies

Veryx Technologies is a provider of innovative testing, automation and monitoring solutions for network service providers, cloud service providers, data centers, Enterprise IT and network equipment vendors. Veryx offers solutions for network testing, performance monitoring and equipment testing applications for technologies such as Carrier Ethernet, IP, Cloud, SDN, NFV and Smart Networks.

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