NETSCOUT®

vSTREAM Virtual Appliance Overview

HIGHLIGHTS

- Virtual appliance that monitors services locally on a host or as an aggregation point for multiple hosts or services for analysis by NETSCOUT's suite of nGeniusONE® Service Assurance, nGenius®PULSE and NETSCOUT® Security Analytics applications

- Supports VMware™ and OpenStack™ KVM private cloud

- Supports public cloud environments

vSTREAM Virtual Appliance Overview

The vSTREAM™ virtual appliance complements existing Adaptive Session Intelligence™ (ASI)-based instrumentation to provide the same smart data visibility within virtualized and cloud infrastructures that is already possible in physical environments. The vSTREAM virtual appliance is ideal for monitoring service-critical traffic running within virtualized or cloud infrastructures, either locally on a host or as an aggregation point for multiple hosts.

With complete visibility across physical, virtual and cloud networks, the vSTREAM virtual appliance presents real-time views of end-to-end call trace data and network-wide KPIs, to protect the reliability and availability of networks and application services with analysis as used in combination with the nGeniusONE Service Assurance platform. It also provides threat detection and forensics analysis when leveraged with the NETSCOUT Security Analytics application. vSTREAM also benefits from the addition of virtual nPOINT functionality for ping testing information that can be displayed and analyzed by nGeniusPULSE.

The vSTREAM virtual appliance revolutionizes visibility into virtualized and cloud environments by providing flexible packet processing functions. Embedded nGenius CyberOptimizer capabilities provides sophisticated functionality, including smart application and encrypted traffic filtering, header stripping, IP tunnel termination, packet de-duplication and NetFlow generation. This makes the vSTREAM a uniquely cost-effective solution for both application and network performance management and packet-level visibility.

Deployment

NETSCOUT supports VMware and OpenStack + KVM private cloud, as well as, Amazon Web Services, Microsoft® Azure, Google® and IBM® public cloud environments, providing visibility to critical network data that is lost when key network functions and services are virtualized. Administrators can use the full suite of OpenStack and VMware administrative tools to orchestrate the NETSCOUT virtual probes and the virtualized network functions and application services monitored by them.

The vSTREAM virtual appliance supports the virtual nGeniusONE (vNG1) and/or nGeniusONE Service Assurance, nGeniusPULSE and NETSCOUT Security Analytics applications and InfiniStreamNG™ monitoring, analysis and capture software. vSTREAM virtual appliances can be deployed in tandem with physical InfiniStreamNG appliances, to provide seamless, end-to-end ASI-based analysis across the entire network and application service infrastructure.

ENTERPRISE
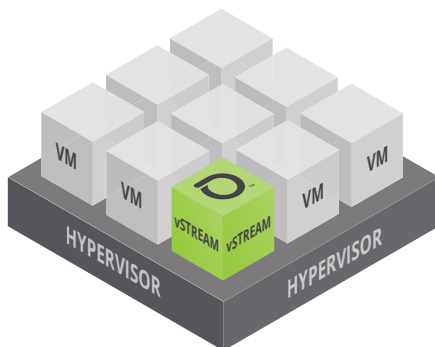
Smart Data and Smarter Analytics Overview

The cornerstone of NETSCOUT's technology approach to service assurance is Smart Data and Superior Analytics with our patented Adaptive Service Intelligence (ASI) technology. Based on wire data, ASI is the foundation of the most robust set of data sources available for use in troubleshooting security, service and application performance across complex, mission critical, enterprise environments. Offering unsurpassed scalability, ASI is delivered on a variety of platforms from hardware appliances and COTS software-based platforms to virtual appliances.

NETSCOUT's vSTREAM virtual appliance is a seamless extension of the nGenius architecture that provides much needed application visibility in virtualized and Cloud environments. This broad range of ASI-based data sources enables enterprises to support a variety of visibility requirements, including on-premise or off-premise, on bare metal, in private cloud or public cloud. All our ASI-based monitoring platforms are integrated with the nGeniusONE Service Assurance platform to provide a common set of smart data and smarter analytics.

SPECIFICATIONS

vSTREAM Virtual Appliance

Hypervisors	VMware vSphere ESXi Standard, Enterprise or Enterprise Plus running ESXi v5.5, v6.0 or v6.5
	Linux KVM 2.0.0, QEMU 2.0, 6.0 U3, 6.5
	OpenStack Mitaka, Newton, Ocata and Pike
vSwitches	VMware vSphere VSS & VDS
	Open vSwitch
Public Clouds	Amazon Web Services (AWS) – AWS Marketplace Certified
	Microsoft Azure – Microsoft Azure Certified
	IBM Cloud
	Google Cloud
Virtual Interfaces	1 Management and up to 4 Monitoring
Network Optimization	Built with Intel Data Plane Development Kit (DPDK)
	PCI Passthrough support
	SR-IOV support
	Amazon Web Services Elastic Network Adapter
vCPU	1 or more (depending on configuration)
Memory	1 GB RAM or more (depending on configuration)
vSTREAM Disk	50 GB
Packet Capture Disk	Configurable

nGeniusONE Service Assurance Platform

nGeniusONE is a real-time information platform that provides a single pane of glass to view the data, voice, and video service delivery performance to manage both the availability and quality of the user's experience.

Available on both hardware and virtual platforms, nGeniusONE leverages NETSCOUT smart data as a universal source for providing smarter analytics for end-to-end visibility throughout private, virtualized, public, and hybrid cloud environments.

ASI Technology

ASI technology transforms wire traffic into smart data, providing real-time visibility into user experience for the most advanced and adaptable information platform to ensure security, manage risk, and drive service performance.

NETSCOUT.