



Virtual NetDetector® / NetDetectorLive™

Network security gets cloud ready

DATASHEET

Features & Benefits

- » *Brings the unequalled real-time analysis and deep forensic power to a virtualized or cloud environment*
- » *Advanced cyber security forensics and detection capabilities similar to NIKSUN's NetDetector physical appliance*
- » *Hosted in a virtual server; reduces hardware footprint to support infrastructure scaling*
- » *Eliminates network blind spots with proactive monitoring of traffic within a virtual server*
- » *Today's best solution for security monitoring of virtualized environments, leading to reduced TCO*
- » *Quick and easy centralized deployment, configuration and control*
- » *Reduces power consumption leading to increased energy efficiency*
- » *Heterogeneous Hypervisor Support (OpenStack, VMWare ESX/ESXi and vSphere, Oracle VM, AWS, KVM, etc.)*

The benefits associated with virtualization have led to the proliferation of virtual networks and the explosion of cloud computing. Both public clouds that share infrastructure, and private clouds that operate behind a firewall, present new security challenges, which have complicated the deployment of otherwise appealing new technologies. Total visibility into the virtual network infrastructure and cloud environments, in terms of availability and security of virtual applications, is just as critical as insight into the physical network. Security risks are just as real, but more difficult to diagnose.

Solution

NIKSUN's Virtual Appliances are real-time data capture and analysis devices that reside within a virtual server. They glean insight into the performance and security of the cloud network by recording and analyzing all traffic directed to it, from either virtual or physical segments. Equipped with the uniquely powerful, award-winning NIKSUN technology, these appliances bring the strengths of NIKSUN NetDetector and NetDetectorLive – full packet capture and network security analysis, and today's most advanced network forensic tools – into virtual and cloud environments. Data from distributed virtual appliances can now be aggregated and viewed on a central NetOmni™ console, not only for a unified view but also for more effective security and performance management.

Reduce Complexity

Virtual Appliances reduce the cost and complexity associated with adding physical hardware to the existing infrastructure. Out-of-the-box features reduce implementation time and costs so you're up and running fast. Appliances can be deployed across multiple virtual servers and within a private or public cloud for complete monitoring across the virtual infrastructure, providing a total view of the virtual world.

The deployment is a seamless process managed by the NIKSUN Virtual NetDetector appliance through the use of the NIKSUN Virtual Controller, any hypervisor, or via a restartable image created for a virtual environment (for AWS or OpenStack), depending on the cloud environment you have. Users can easily deploy the software-only appliances through a simple point and click process for any cloud configuration.

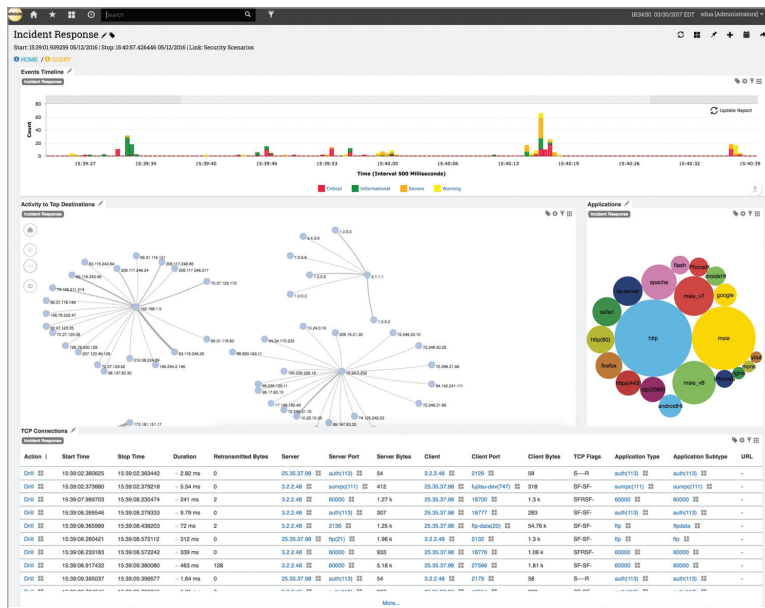
Proactive Virtual Security Monitoring

Cloud or virtual servers face the same security hazards as physical servers. As traffic between virtual servers or within the cloud is isolated from the physical network, having an Intrusion Detection System residing within those environments is essential to counteract threats. The Virtual NetDetector monitors virtual network traffic for user-defined and threshold-based behaviors, while packets are analyzed and compared to preset signature and anomaly definitions. Incident alerts are linked to all packet information corresponding to an event occurrence. These alarms are available for further forensic investigation through an easy-to-use GUI that enables you to navigate anywhere with a single click. The NIKSUN Network Knowledge Warehouse (NKW) stores the indexed packets and provides the necessary data to reconstruct any incident and quickly analyze the traffic within the virtual network.

Unified View of All Network Traffic

While data from all distributed virtual appliances can be viewed on NIKSUN NetOmni™ for a complete picture of a virtualized enterprise environment, traffic from deployed appliances can also be pulled into NetOmni to present a unified view of all traffic across the virtual, LAN, WAN and MAN environments.

As organizations move towards virtualization, as well as public and private cloud networks, NIKSUN's Virtual Appliances ensure visibility into both the existing physical, virtual and cloud infrastructure, providing a comprehensive platform that ensures the integrity of all facets of the network.



Security Overview Report

Technical Information

- » **Models:** Virtual NetDetector, Virtual NetDetectorLive
- » **Database Size:** 8 TB
- » **Network Interface:** 1 Gbps / 10 Gbps
- » **Scaleability:** unlimited instances for continuous growth and scalability
- » **Hypervisor Support and Management:** OpenStack; VMWare ESX/ESXi and vSphere; Oracle VM 3.3.1; KVM; AWS.
- » **Supported Protocols:** TCP, UDP, SCTP, IPv4, IPv6, fragmented IP, IEEE 802.3 (Ethernet), Ethernet MPLS, VLAN (ISL, IEEE 802.1q and stacked 802.1q), DNS, ICMP, HTTP, HTTPS, MSSQL, Oracle QinQ, Multicast, ISO8583, FIX, GTP, SIP, CDMA 2000, RADIUS, Diameter and many more.

Integration: Authentication - TACACS+, RADIUS, CAC, LDAP and Active Directory. All NIKSUN products integrate with NIKSUN NetOmni Full Suite for enterprise-wide aggregation, reporting and visualization.

Interested in learning more?

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