

McAfee Virtual Network Security Platform

Complete threat detection and intrusion prevention for cloud networks

McAfee® Virtual Network Security Platform (McAfee vNSP) is a complete network threat and intrusion prevention system (IPS) built for the unique demands of private and public clouds. It quickly discovers and blocks sophisticated threats in cloud architectures with accuracy and simplicity, enabling organizations to protect workloads and restore compliance with confidence. Advanced technologies include signature-less detection, in-line emulation, and signature-based vulnerability patching. Streamlined workflows, flexible integration options, and simplified licensing allow organizations to easily manage and scale their security to meet existing and future needs.

Complete Public Cloud Security

Public clouds offer convenience, cost savings, and the opportunity to shift infrastructure spending to an operational expense model. They also introduce a new level of risk, where a vulnerability in publicly accessible software could enable an attacker to puncture the cloud and exfiltrate sensitive information or accidentally expose customer data to other tenants using the same service. McAfee vNSP supports Amazon Web Services (AWS) and Microsoft Azure, today's leading public cloud services, delivering complete threat visibility and protection for data going through an internet gateway or server-to-server (east-west traffic).

Securing Virtualized Environments

Enterprises are rapidly adopting virtualized IT infrastructures, such as private and public clouds, where physical servers can simultaneously host multiple virtual machines (VMs) and virtualized workloads. The resulting inter-VM communication, along with instant migration, replication, and backup of these workloads, have combined to dramatically increase east-west traffic inside private and public clouds, as well as software-defined data centers (SDDC). Adding to the chaos, the flexibility provided by network virtualization makes these escalating traffic flows dynamic and unpredictable. To keep up, virtualized security solutions must be flexible and scalable, and, even more importantly, they must function seamlessly with software-defined networking (SDN) platforms that orchestrate these often short-lived VMs and workloads.

Key Advantages

- Complete protection for private and public clouds (AWS, Azure)
- True east-west traffic protection
- Centralized management console for control and visibility
- Advanced inspection technologies protect against known and unknown threats
- High availability, disaster recovery, and load balancing for performance
- Cloud license sharing for flexibility across private and public clouds
- Integrates with McAfee portfolio for device-to-cloud security
- Available at **AWS Marketplace**
- Available at **Azure Marketplace**

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Agility in Private Clouds

McAfee vNSP integrates seamlessly with popular private cloud platforms, including VMware NSX and OpenStack-based SDN environments. McAfee vNSP is the only dedicated virtual IPS solution certified to work with VMware NSX. Micro-segmentation of VMs and deep inspection of east-west traffic is maintained automatically in virtualized environments, even as workloads are rapidly born, migrated, and retired.

Advanced Threat Prevention

McAfee vNSP is based on a next-generation inspection architecture designed to deliver deep inspection of virtual network traffic. It uses a combination of advanced inspection technologies—including full protocol analysis, threat reputation, behavior analysis, and advanced malware analysis—to detect and prevent both known and unknown zero-day attacks on the network.

No single malware detection technology can prevent all attacks, which is why McAfee vNSP layers multiple signature and signature-less detection engines to help prevent unwanted malware from wreaking havoc in your clouds. It utilizes multiple inspection technologies, including in-line emulation of browser, JavaScript, Adobe files, botnet, malware callback detection, behavior-based DDoS detection, and protection from advanced cross-site scripting and SQL injection attacks.

McAfee vNSP can also identify and block the stealthiest of files via integration with McAfee Advanced Threat Defense, where files are submitted for behavior

analysis. McAfee Advanced Threat Defense combines in-depth static code analysis, dynamic analysis (malware sandboxing), and **machine learning** to increase zero-day threat detection, including threats that use evasion techniques and ransomware. McAfee also provides native support for Snort signatures to detect and protect against malware.

Flexible Cloud License Sharing

Enterprise organizations often spread their IT resources and infrastructure across multiple clouds and platforms to support legacy applications, reduce dependency on a single vendor, and for system redundancy and cost savings. Licensing security solutions for virtualized environments can be complicated and expensive, as most vendors require the purchase of separate licenses for private and public clouds and for different SDN platforms.

McAfee simplifies licensing and reduces costs through cloud license sharing, allowing organizations to share their McAfee vNSP licenses and throughput across any combination of public and private cloud platforms. Cloud license sharing provides flexibility and improves security by enabling administrators to rapidly deliver east-west traffic protection and micro-segmentation to virtual workloads wherever they reside, without the hassles of complex licensing and time-consuming procurement processes.

Learn More

- [Securing Your Amazon Web Services Virtual Networks](#)
- [Securing Your Microsoft Azure Virtual Networks](#)

DATA SHEET

Streamlined Workflows and Analytics

Modern threats can generate large volumes of alerts, quickly outpacing a security operator's ability to prioritize and track them. If the response is too slow, real threats can slip by undetected. McAfee vNSP includes advanced analytics and actionable workflows that correlate multiple IPS alerts into a single actionable event, enabling administrators to quickly identify relevant information. Also, integration with additional McAfee security solutions creates a truly comprehensive, connected network threat detection and mitigation platform.

Centralized Management for Real-Time Visibility and Control

A single McAfee Network Security Manager appliance delivers centralized, web-based management for real-time visibility and control. The state-of-the-art console puts you in control of real-time data via a single pane of glass. You can easily manage, configure, and monitor all McAfee Network Security Platform appliances, virtual or physical, as well as McAfee Network Threat Behavior Analysis appliances across traditional, private, and public cloud environments. The intuitive interface also scales to easily manage widely distributed mission-critical clusters.

McAfee Network Security Manager can also be deployed as a virtual instance on VMware ESX servers and in AWS or Azure environments. McAfee vNSP supports AWS Identity and Access Management (IAM), enabling administrators to easily and securely manage access to AWS services and resources based upon permissions assigned to specific users and groups.

High Availability, Disaster Recovery, and Load Balancing

The McAfee vNSP automatically delivers uninterrupted control, protection, and performance via multiple methods. McAfee Network Security Manager provides high availability by proactively monitoring the environment. If an active controller becomes unavailable, McAfee Network Security Manager will automatically failover to a standby controller for uninterrupted visibility and security. In addition, a standby McAfee Network Security Manager can be deployed for disaster recovery in AWS and Azure environments.

The McAfee vNSP also provides high availability for IPS sensors. If a sensor becomes unavailable, the auto-scaling capability automatically creates a new virtual IPS sensor for seamless, uninterrupted protection. Also, if network traffic increases, automatic load balancing across sensors ensures that performance is optimized, and additional sensors can be deployed automatically to meet the required throughput performance.

Integrated Security

Sophisticated attacks do not respect product boundaries and will quickly take advantage of any infrastructure gaps, especially between security products. McAfee vNSP is the only IPS to seamlessly integrate across multiple security products, efficiently leveraging data and workflows across solutions for superior security, protection, and an increased return on investment. Examples of McAfee security solution integration include:

DATA SHEET

- **McAfee ePolicy Orchestrator® (McAfee ePO™) software:** Complete endpoint visibility for all IPS events and alerts
- **McAfee Endpoint Intelligence Agent:** Combines network and endpoint perspectives to stop data leaks
- **McAfee Enterprise Security Manager:** Rich data sharing and IPS quarantining for IPS alerts
- **McAfee Threat Intelligence Exchange:** Shared learning across different types of devices
- **McAfee Global Threat Intelligence:** Largest and most active reputation service in the world
- **McAfee Network Threat Behavior Analysis:** Extend visibility across the network
- **McAfee Virtual Advanced Threat Defense:** Provides in-depth inspection to detect evasive threats
- **McAfee Cloud Threat Detection:** A service that plugs into existing McAfee security solutions to detect advanced malware
- **McAfee Management for Optimized Virtual Environments (McAfee MOVE):** An antivirus solution for virtual environments
- **Third-party vulnerability scanners:** Host and risk analysis for endpoints

Additional Features

Advanced threat prevention

- McAfee Gateway Anti-Malware emulation engine
- PDF JavaScript emulation engine (lightweight sandbox)
- Adobe Flash behavioral analysis engine
- Advanced evasion protection

Botnet and malware callback protection

- Domain name servers (DNS)/domain generation algorithms (DGA) fast flux callback detection
- DNS sinkholing
- Heuristic bot detection
- Multiple attack correlation
- Command and control database

Advanced intrusion prevention

- IP defragmentation and TCP stream reassembly
- McAfee, user-defined, and open-source signatures
- Host quarantine and rate limiting
- Inspection of virtual environments
- Denial-of-service (DoS) and distributed denial-of-service (DDoS) prevention
- Whitelist/blacklist enhancements in support of Structured Threat Information eXpression (STIX)
- Threshold and heuristic-based detection
- Host-based connection limiting
- Native support for Snort signatures
- Self-learning, profile-based detection

McAfee Global Threat Intelligence

- File reputation
- IP reputation
- Geolocation-based restricted access
- IP address-based access control

DATA SHEET

	Sensor Type 1	Sensor Type 2
Platform	VMware ESX 5.5/6.0/6.5	AWS Azure VMware vSphere 6.5 and NSX 6.3
Virtual IPS sensor model	IPS-VM600	IPS-VM600-VSS
Type of virtual IPS deployment	Stand-alone	Distributed
VMware NSX support	No	Yes
AWS support	No	Yes
Azure support	No	Yes
Number of logical CPU	4	AWS 4, Azure 5
Memory required	6 GB	6 GB
Storage	8 GB	8 GB
Virtual Sensor Specifications		
Maximum throughput	Up to 1 Gbps	Up to 1 Gbps
Number of monitoring port pairs	3	1 (monitoring port, not a port pair)
Virtual interfaces (VIDS) per sensor	100	100
DoS profiles	300	300
Management port	Yes	Yes
Response port	No	No
Deployment modes	Inter-VM inspection, physical-to-VM inspection, physical-to-physical inspection, SPAN/Inline port inspection	

McAfee technologies' features and benefits depend on system configuration and may require enabled hardware, software, or service activation. Learn more at mcafee.com. No network can be absolutely secure.



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