

Securing the datacenter with Nuage Networks VSP and Palo Alto Networks next-generation firewalls

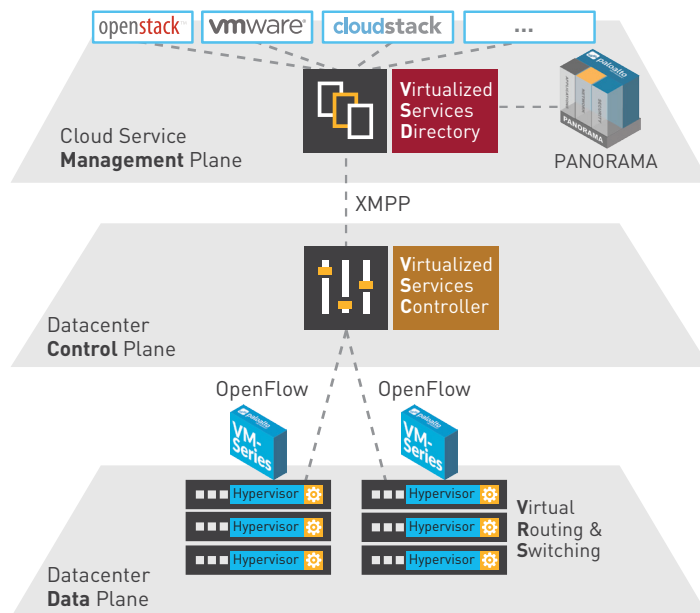
SOLUTION OVERVIEW

Nuage Networks Virtualized Services Platform (VSP) and firewalls from Palo Alto Networks® protect the integrity of the applications in your datacenter, the virtual machine (VM) environment and the underlying network fabric.

The physical and virtual next-generation firewalls from Palo Alto Networks are certified to interwork with Nuage Networks VSP.

SOLUTION FOR

- Application Service Providers with Internet-facing datacenters
- Enterprise /Internal datacenters with connectivity to Virtual Private Networks (VPNs)
- Telecommunication Providers offering clean Internet services



- Uses single, unified control point for ensuring security is always linked to application and service domains
- Extends the speed and efficiencies of Nuage Networks-enabled network consumption to service layer next-generation firewalls and threat protection
- Enables highly flexible deployment scenarios for more efficient and secure traffic forwarding across VMs, hosts and datacenters

Together, Nuage Networks and Palo Alto Networks have created the ability to seamlessly bring the next-generation firewall technology directly into the core of your datacenter environment.

As a datacenter manager, you are under pressure to protect your infrastructure and applications from increasingly sophisticated and targeted threats.

Datacenters need a high-performance, flexible network security solution. The ideal solution not only safely enables applications and protects against modern threats, it does so while supporting the dynamic nature of a virtualized environment.

Palo Alto Networks next-generation firewalls offer you a network security solution that eliminates many of the unacceptable compromises previously endemic to datacenter network security.

When deployed alongside the Nuage Networks VSP, next-generation firewalls provide a simplified, high-performance, flexible network security infrastructure that safely enables the complex and growing number of applications in the datacenter. Key virtualization and cloud requirements are addressed including intra-host inspection of VM traffic, tracking policies to VM creation and movement. The firewalls are fully integrated with the Nuage Networks Virtualized Services Controllers (VSC) to automate policy changes.

With consistent next-generation security features available in physical or virtual form factors and an optimized low-latency architecture, Palo Alto Networks next-generation firewalls deliver security for your datacenter design without compromising performance.



BUSINESS BENEFITS

Fully validated and integrated with the Nuage Networks VSP, security from Palo Alto Networks offers the highest level of protection available on the market today.

PROTECTING THE INTEGRITY OF THE APPLICATION

Palo Alto Networks next-generation firewalls eliminate many of the traditional datacenter network security compromises enterprises have traditionally struggled with.

For the first time, organizations can prevent threats, comply and compartmentalize, and maintain application performance and availability.

SECURING THE DATACENTER NETWORK

With Nuage Networks and Palo Alto Networks, security becomes an integral part of the datacenter fabric. Traffic is protected without compromises.

PALO ALTO NETWORKS

Palo Alto Networks products enable enterprises, service providers, and government entities to secure their networks and safely enable the increasingly complex and rapidly growing number of applications running on their networks. Its Next-Generation Firewall delivers application, user and content visibility and control integrated within the firewall through proprietary hardware and software architecture.

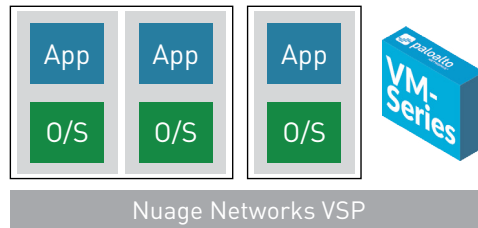
Learn more:

www.paloaltonetworks.com

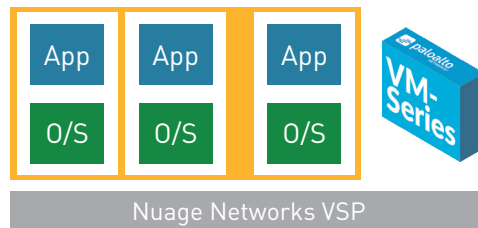
Solution features and benefits

The Palo Alto Networks next-generation firewall solution can be deployed alongside the Nuage Networks VSP in three implementation models as shown in the figure.

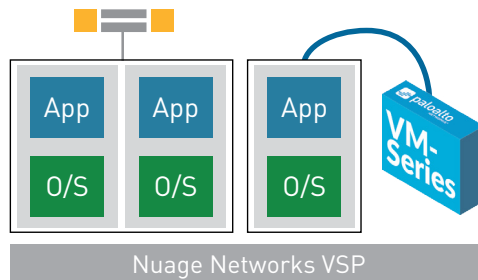
Virtual firewall per domain



Virtual firewall per host



Hybrid virtual/physical firewall



Each deployment model can be adapted to maximize protection while utilizing the dynamic and reactive adaptability of the Nuage Networks VSP to deliver exceptional service velocity for your critical tenants and their applications.

With the Palo Alto Networks next-generation firewall technologies, you can identify, control and safely enable datacenter applications while simultaneously inspecting content for all threats. Palo Alto Networks next-generation firewalls feature a complete threat protection framework that addresses targeted attacks, exploits, malware and spyware on standard ports, non-standard ports and within encrypted traffic.

As datacenter networks evolve to optimized fabrics, security protection must also evolve to become part of the network fabric. Together, Nuage Networks and Palo Alto Networks deliver just that.

Features

- Next-generation firewall
- Application visibility
- Modern malware protection
- Enterprise-class IPS
- DOS/DDOS attack protection
- Virtualization security
- Anti-virus

About Nuage Networks

Nuage Networks (www.nuagenetworks.net) brings a unique combination of groundbreaking technologies and unmatched networking expertise to the enterprise and telecommunications industries. The Silicon Valley-based business has applied radically new thinking to the problem of delivering massively scalable and highly programmable SDN solutions within and across the datacenter and out to the wide area network with the security and availability required by business-critical environments. Nuage Networks, backed by the rapidly growing IP/Optical Networks business of Nokia, has the pedigree to serve the needs of the world's biggest clouds. The cloud has made promises — the mission of Nuage Networks is to help you realize them.

Discover more at www.nuagenetworks.net/partners and follow us [@nuagenetworks](https://twitter.com/nuagenetworks)