

**SOLUTION BRIEF**

# Fortinet and Nuage Networks Integrated Network Security Solution

## Delivering Advanced Software-defined Security for Data Centers

### Executive Summary

Fortinet and Nuage Networks have created the ability to seamlessly bring advanced firewall and security technologies directly into the core of your data center environment.

Data center managers are under pressure to protect infrastructure and applications from increasingly sophisticated and targeted threats. Data centers need a high-performance, flexible network security solution that safely enables applications and protects against modern threats. The solution must also support the dynamic nature of a virtualized environment.

### Solution Overview

The Fortinet and Nuage Networks integrated network security solution eliminates many of the unacceptable compromises previously endemic to data center network security.

The integrated network security solution secures the data center against modern threats, protects the integrity of data center applications, and secures the virtual machine (VM) environment and underlying network fabric.

Fortinet FortiGate firewalls are certified for use with the Nuage Networks Virtualized Services Platform (VSP). When deployed alongside the Nuage Networks VSP, the Fortinet FortiGate provides a simplified, high-performance, flexible network security infrastructure that safely enables the complex and growing number of applications in the data center. The solution addresses key virtualization and cloud requirements including intra-host inspection of VM traffic, tracking policies to VM creation and movement, and full integration with the Nuage Networks Virtualized Services Controllers (VSC) to automate policy changes. With consistent next-generation security features available in physical and virtual form factors, and optimized low-latency architecture, the Fortinet FortiGate delivers security for your data center without compromising performance.

### Joint Solution Components

- Fortinet FortiGate
- Fortinet FortiManager
- Nuage Networks Virtualized Services Platform (VSP)
- Nuage Networks Virtualized Services Controllers (VSC)

### Joint Solution Benefits

- Delivers unparalleled security protection
- Identifies, controls, and safely enables data center applications
- Leverages dynamic and reactive adaptability to deliver exceptional service velocity
- Flexible deployment for highly efficient and secure traffic forwarding in data centers



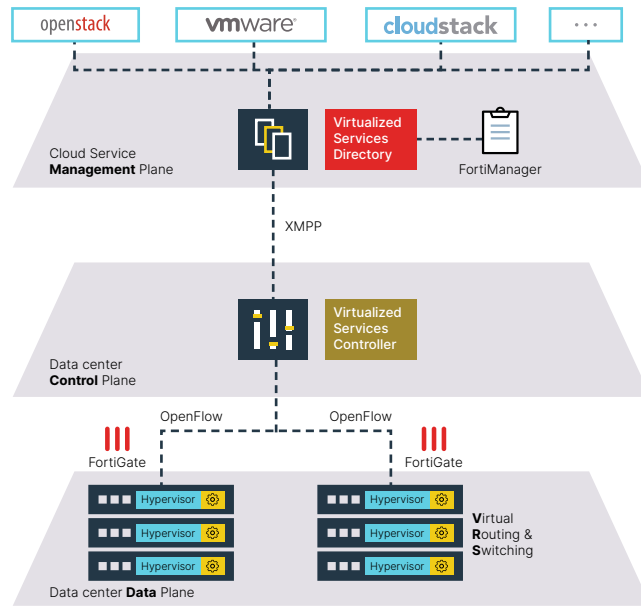


Figure 1: Solutions overview.

Fortinet security can be deployed alongside the Nuage Networks VSP in three implementation models, as shown in the figure. 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 critical tenants and their applications.

Through the combined power of Nuage Networks VSP and Fortinet FortiGate, you can identify, control, and safely enable data center applications while simultaneously inspecting content for all threats. You benefit from a complete threat protection framework that addresses targeted attacks, exploits, malware, and spyware on standard ports, nonstandard ports, and within encrypted traffic.

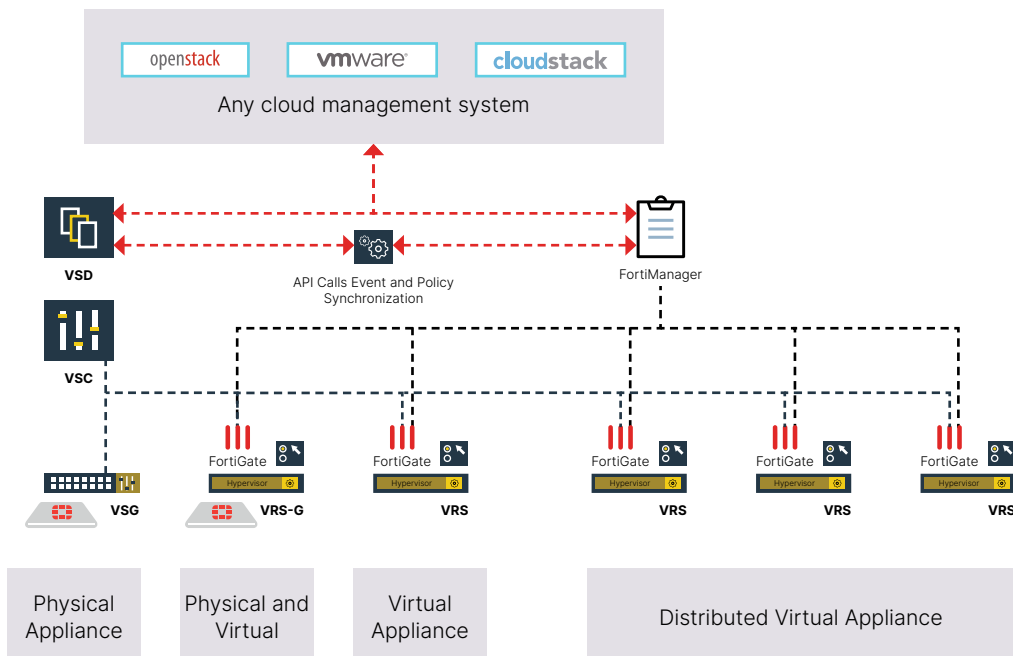


Figure 2: Deployment models.



## Solution Benefits

- Delivers unparalleled security protection. Fully validated and integrated into the Nuage Networks VSP, security from Fortinet offers the highest level of protection against sophisticated cyber threats on the market today.
- Identifies, controls, and safely enables data center applications while simultaneously inspecting content for all threats.
- Leverages dynamic and reactive adaptability to deliver exceptional service velocity.
- Utilizes highly flexible deployment scenarios for more efficient and secure traffic forwarding in data centers.
- Single, unified control point ensures security is always linked to application and service domains.

As data center networks evolve to optimized fabrics, security protection must now also evolve to become part of the network fabric. Together, Fortinet and Nuage Networks deliver just that. A Nuage Networks VSP data center with integrated Fortinet security eliminates many of the traditional data center network security compromises. Leverage the solution and prevent threats, comply and compartmentalize, and maintain application performance and availability. With Fortinet and Nuage Networks, security becomes an integral part of the data center fabric. Traffic is protected without compromise.

## About Nuage Networks

Nuage Networks ([www.nuagenetworks.net](http://www.nuagenetworks.net)) brings a unique combination of groundbreaking technologies and unmatched networking expertise to the enterprise and telecommunications industries. The Silicon Valley-based start-up has applied radically new thinking to the problem of delivering massively scalable and highly programmable SDN solutions with the security and availability required by business-critical environments. Nuage Networks, backed by the rapidly growing IP division of Alcatel-Lucent (Euronext Paris and NYSE: ALU), 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 <http://www.nuagenetworks.net/partners/>.



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