



## SOLUTION BRIEF

# Deploying Fortinet FortiGate NGFW Virtual Appliances on Array Network Functions Platforms

Deploy best-of-breed next-generation firewall virtual appliances on Array AVX Series platforms for security, agility and guaranteed performance.

## Next-Generation Security

As network attacks continuously increase in sophistication, persistence and deception, enterprises and other organizations have come to routinely deploy next-generation firewalls (NGFWs) to combat and protect against these threats. Further, to support virtualization initiatives, large numbers of organizations are choosing to deploy their NGFWs as virtual appliances.

The Fortinet FortiGate VM NGFWs offer complete, end-to-end security for the data center, mitigating blind spots and implementing critical security controls. Through the advanced FortiOS operating system, FortiGate VM appliances can neutralize a broad range of security threats working at the edge for front-line defense, or within the virtual infrastructure to provide inter-zone security. FortiGate VM is further supported by real-time intelligence provided by FortiGuard security

services, with real-time updates, in-depth security research and validated security intelligence.

## Security, Agility & Performance

In addition to NGFWs, businesses are increasingly deploying other networking and security functions as virtual appliances. VA licenses are portable and can be quickly and remotely provisioned; capacity can easily be increased via software upgrades; costs for space, power and cooling can often be significantly reduced; and VA software is usually available on a CAPEX-reducing subscription basis.

However, the agility of virtual appliances often comes at the expense of performance, especially for highly compute-intensive networking and security functions. Array AVX Series network functions platforms address this challenge by providing guaranteed performance for virtualized network functions through dedicated CPU, SSL, memory and I/O resources. The AVX Series is an open platform that supports Array virtual ADC and SSL VPN functions, as well as 3rd-party virtual appliances such as the FortiGate VM next-generation firewalls.

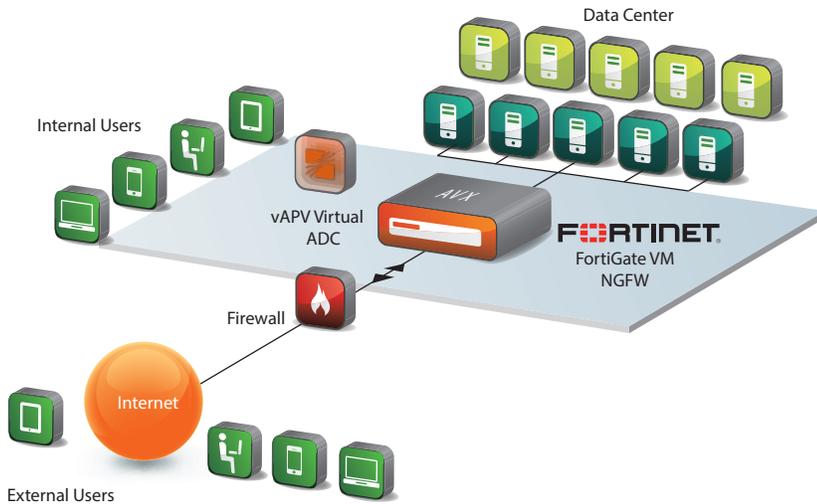


## Fortinet FortiGate & Array Networks: Virtualized Security That Performs Like Hardware

By deploying Fortinet FortiGate VM NGFW appliances on Array AVX Series, enterprises and managed service providers can replace traditional hardware appliances with a single Network Functions Platform that significantly reduces costs associated with space, power and cooling. Consolidation and software agility is achieved while maintaining performance equivalent to that of dedicated stand-alone appliances. As compared to deploying FortiGate VM NGFW on general-purpose servers, Array's Network Functions Platform provides both guaranteed performance and significantly higher levels of performance.

Array's vAPV virtual application delivery controllers and Fortinet FortiGate VM NGFWs can also be deployed together on Array's Network Functions Platform to help ensure availability and high performance by load balancing traffic across multiple NGFWs, and by offloading compute-intensive SSL processing to ADC resources, rather than NGFW resources. Solutions that attempt to combine the two functions into a single product can quickly run into performance challenges. In addition, the majority of companies that try to provide a combined NGFW and ADC solution excel at perhaps one, but not both, technologies.

vAPV virtual ADCs provide best-of-breed, award-winning application availability, acceleration and traffic management capabilities for virtualized environments, including Array's network functions platform. The vAPV virtual ADCs provide integrated Layer-4 and Layer-7 server load balancing, global server load balancing, connection multiplexing, SSL acceleration, caching, compression, traffic shaping, and support for IPv6 migration.



### FortiGate VM Benefits

- > Provides multi-threat security to effectively neutralize a wide range of security threats
- > Mitigate blind spots by implementing critical security controls for virtual infrastructure
- > Rapidly provision security infrastructure whenever and wherever it is needed

### AVX Series Benefits

- > Delivers up to 10x performance improvements for FortiGate VM versus general-purpose servers
- > Provides the agility of virtualized appliances with the performance of dedicated appliances
- > Supports a wide range of adjacent and complementary network and security functions
- > Guaranteed performance through dedicated CPU, SSL, memory and I/O; separate hypervisor resources

### vAPV Virtual ADC Benefits

- > Industry-leading performance and cost per SSL TPS for 2048-bit SSL
- > Customizable application traffic management without impacting performance or scalability
- > 99.999% application availability, and up to 5x application acceleration

For more information on how Fortinet FortiGate VM can protect your enterprise from sophisticated threats, visit [fortinet.com](http://fortinet.com) or email [info@fortinet.com](mailto:info@fortinet.com). For more information about how Array Networks can help you consolidate network and security functions, and assure performance of critical applications, visit us at [arraynetworks.com](http://arraynetworks.com) or send us an email at [sales-info@arraynetworks.com](mailto:sales-info@arraynetworks.com).