



## vAPV SOLUTION BRIEF

# Load Balancing Microsoft Exchange on Nutanix

## Array Virtual ADCs Deploy Directly on Nutanix to Enhance the Availability, Security and Performance of Microsoft Exchange

### Background

Microsoft Exchange is one of the most widely deployed office productivity tools in the world. For enterprises adopting private cloud environments, Exchange is often deployed on Nutanix for optimal performance and to simplify management and scaling. The Nutanix Enterprise Cloud Platform natively converges compute, virtualization and storage in a resilient, software-defined solution with rich machine intelligence.

Microsoft recommends the use of load balancers to intelligently optimize Exchange traffic, providing enhanced levels of availability, security and performance. To ensure interoperability and successful

deployment, Array's vAPV virtual ADCs have been verified through the Nutanix Ready testing program for ESXi, Hyper-V, and AHV and validated by Microsoft for Exchange. By running load balancing as a workload directly on Nutanix, customers gain an application and software-centric approach that achieves even higher levels of convergence.

vAPV L4-L7 services include load balancing, connection multiplexing, SSL offloading, caching, compression, traffic shaping, global server load balancing, link load balancing and other capabilities that optimize Exchange deployments for any user, anywhere.

### Array Load Balancing Benefits

Array vAPV ADCs ensure that employees can access and use Exchange services anytime, anywhere and on nearly any device. Availability and response times are improved by distributing traffic among Exchange instances, caching files that are frequently accessed and compressing data traversing the network. In addition, global server load balancing directs external users to the optimum Exchange services based upon proximity, latency, performance and availability.

Array ADCs check the health of Exchange services and route traffic to the best possible instance or site. This strategy protects against local infrastructure failure and ensures global availability in the event of site or ISP failure.

The vAPV also plays an important role in a layered security strategy. Acting as a full reverse proxy, Array ADCs protect Exchange instances against DoS/DDoS attacks, UDP flooding and port scans, SYN floods, TCP port scans and other malicious attacks. For encrypted connections, vAPV ADCs offload SSL to improve the efficiency of Exchange instances and SSL certificates can be consolidated and centrally managed via the vAPV to further improve operational efficiency.

## SSL VPN for Secure Remote Access

Array vxAG SSL VPNs can also be deployed on Nutanix platforms to enforce security policies at the network edge, allowing only authorized remote users to access Exchange instances and other resources. A wealth of security features, as well as 'burst' licensing for unplanned outages, provide comprehensive protection.

## Multiple Deployment Models

In addition to Array's vAPV virtual ADCs and vxAG virtual SSL VPNs which run as workloads on Nutanix platforms, Array also supports dedicated and multi-tenant physical hardware appliances that provide ADC and SSL VPN functionality. These alternative deployment models are an ideal complement to Nutanix for compute-intensive use cases that benefit from the horsepower of purpose-built application delivery and security appliances.

## Summary

Nutanix makes IT infrastructure invisible with an enterprise cloud platform that delivers the agility and economics of the public cloud – without sacrificing the security and control of on-premises infrastructure. By converging compute, virtualization and storage into a resilient, software-defined solution, Nutanix helps simplify datacenters and provides predictable performance, linear scalability and cloud-like infrastructure consumption.

By deploying Microsoft Exchange and Array vAPV ADCs on the Nutanix Enterprise Cloud Platform, IT managers gain the best of all worlds – a streamlined, efficient platform with high performance and highly available Exchange services. In addition, leveraging Array Networks and Nutanix AHV delivers an excellent price-performance ratio and value.

Virtual ADC and SSL VPN appliances on a Nutanix hyperconverged platform for flexibility and price/performance



Dedicated ADC and SSL VPN appliances for higher performance, scalability and SSL offloading capabilities



## Solution Benefits

- > Ensure high availability and efficient handling of Microsoft Exchange application traffic

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- > Seamlessly scale Exchange services while maintaining a premium accelerated end-user experience

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- > Prevent DoS/DDoS and other malicious attacks

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- > Enable local and global failover capability

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- > Secure local and remote access to Exchange services with centralized SSL certificate management

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- > Consolidate storage, compute, app delivery, security, management and application workloads on a single solution, with predictable scalability delivered by Nutanix's Web-scale architecture

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- > Leverage sizing tools, reference designs and Array deployment guides for Nutanix and Exchange to go from concept to production up to 30X faster than traditional approaches

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- > Eliminate infrastructure silos, while using up to 80% less space and spending up to 50% less on hardware

For additional information about the Nutanix Enterprise Cloud Platform and AHV, visit [www.nutanix.com](http://www.nutanix.com).

For additional information about Array Networks solutions, visit our [Microsoft solutions page](#) or [Nutanix hyperconverged solution page](#), or send us an email at [sales-info@arraynetworks.com](mailto:sales-info@arraynetworks.com).