



# THUNDER ADC AND VMWARE INTEGRATION

## INTEGRATING VIRTUALIZATION AND APPLICATION DELIVERY NETWORKING

A10 Networks has recognized the benefits of virtualization technology for years. As the market leader in Application Delivery Networking, A10's integration with virtualization market leader VMware is a logical choice. VMware allows a customer to consolidate their servers, and offers superior application optimization. The need for optimizing application delivery for virtual machines is just as critical as in traditional non-virtual environments.

This is why A10 Networks Thunder® ADC line of Application Delivery Controllers (ADC) are a perfect addition to VMware environments. A10 has embraced virtualization technology—not only by offering several virtualization layers within its products—but also through tight VMware integration.

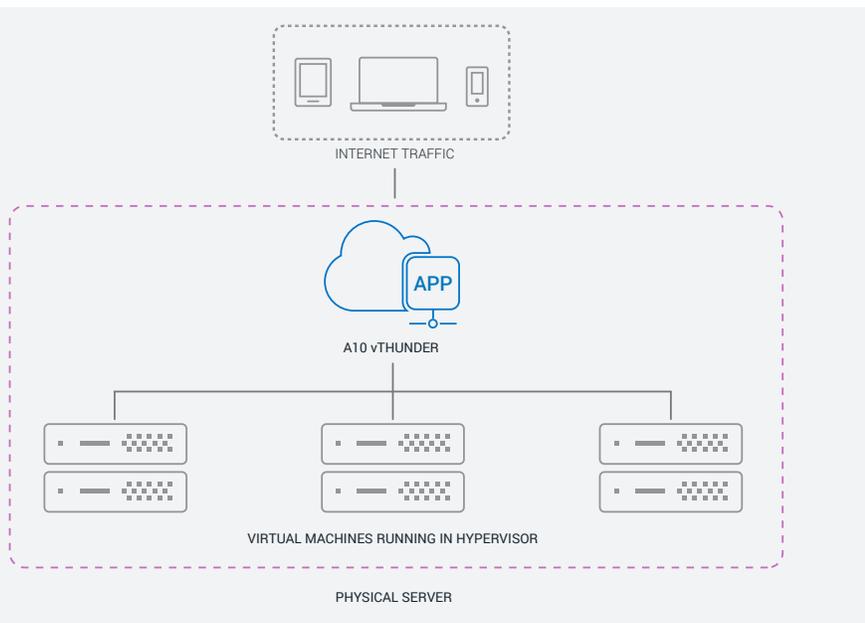
A10 Networks is an official VMware Technology Alliance Partner and has been fully certified by VMware for software (VMready) and hardware, guaranteeing worry-free interoperability.

### A10 AND VMWARE

Thunder ADC complements the VMware environment perfectly. VMware's products provide ease of deployment of virtual servers and applications, and make this environment extremely flexible and manageable. Thunder ADC adds significant value to application delivery. For example, if an application is available over HTTPS, this means the virtual machines must encrypt and decrypt traffic, which can consume substantial CPU resources.

Thunder ADCs' SSL Offload feature improves the efficiency of existing hardware. The SSL Offload feature will terminate encrypted sessions from clients. The virtual machines no longer need to encrypt and decrypt traffic, reducing hardware utilization. Other popular optimization and acceleration techniques include RAM caching, TCP connection reuse and HTTP compression.

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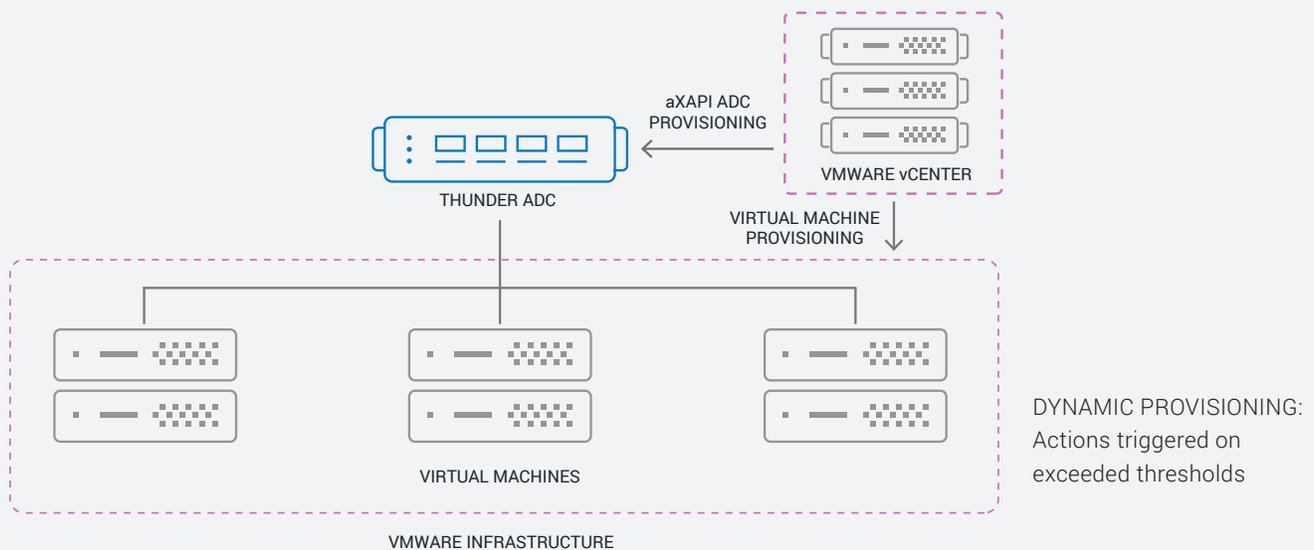
Besides complementing the VMware environment by enhancing application delivery, the VMware virtualization advantages extend into A10's product portfolio. Solutions include:

- A10 Networks vThunder® line of virtual appliances: introduces virtualization flexibility in the Thunder ADC layer—running on VMware's ESXi hypervisor
- VMware vCenter integration: A10 Networks Advanced Core Operating System (ACOS®) enables dynamic provisioning within a vSphere environment
- A10 Networks aGalaxy® Centralized Management System: Thunder ADCs' management software, which also runs on VMware as a virtual machine

All these solutions are extremely useful for enhancing application delivery in a VMware environment, or enabling a cloud ecosystem.

## vTHUNDER FOR VMWARE

vThunder is a software-based ADC solution that can run on a VMware ESXi hypervisor. vThunder is designed to meet the growing needs of organizations that require a flexible and easy-to-deploy application delivery and server load balancer solution running within a virtualized environment. Using vThunder, customers are able to leverage advanced ADC features using commodity hardware. These features can be offered as a service-in-a-cloud solution. As the business grows, vThunder configurations can be transferred easily to Thunder ADC hardware or other software appliances as needed. The virtualization allows for strong isolation; multiple ADC configurations and firmware versions can run simultaneously and share one hardware appliance. A trial copy of vThunder is available at: <https://www.a10networks.com/vThunder-trial>.



## vTHUNDER KEY BENEFITS

- High performance offers speeds up to 8 Gbps
- vThunder is certified by VMware and Microsoft (for example, Exchange and Lync)
- Software image allows download and immediate deployment
- Virtual appliance is portable to another compatible host
- Underlying hardware can be enhanced while maintaining the same image configuration and settings
- vThunder includes unique A10 Networks aVCS® Virtual Chassis System scaling for on-demand expansion
- With highly efficient CPU resource usage, vThunder can operate on a single virtual CPU
- No feature limitations; versions are licensed by bandwidth

VMware vSphere is deployed in numerous data centers, providing a flexible framework for IT to host and manage applications. A10's aXAPI can interact with the vSphere environment; this provides a flexible collaboration between the Thunder ADC and the VMware infrastructure management. This enables an automated, dynamic provisioning solution, scaling up or down as needed. For example, under peak loads, the hypervisor management software and the vThunder aXAPI can add more application servers automatically and adjust the ADC configuration to allow more capacity. Thunder ADC can improve application performance, thereby reducing Total Cost of Ownership (TCO) and virtual machine sprawl.

## COMBINED VANTAGE POINT

VMware and A10's solutions complement each other perfectly to create a powerful, flexible hosting infrastructure—for applications and for the cloud. A10 has adapted VMware's technology into its products, creating synergy between virtualization solutions and application delivery. As a result, businesses can increase their services, easily deploy and manage ADCs, and even automate provisioning based on capacity demands, lowering operational expenses (OPEX).

## NEXT STEPS

To learn more about the A10 vThunder, pls contact your A10 representative or visit [a10networks.com/vthunder](http://a10networks.com/vthunder).

## ABOUT A10 NETWORKS

A10 Networks (NYSE: ATEN) is a Secure Application Services™ company, providing a range of high-performance application networking solutions that help organizations ensure that their data center applications and networks remain highly available, accelerated and secure. Founded in 2004, A10 Networks is based in San Jose, Calif., and serves customers globally with offices worldwide.

For more information, visit: [a10networks.com](http://a10networks.com) or tweet [@a10Networks](https://twitter.com/a10Networks).

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