

Full Application Delivery Controller (ADC) benefits for cloud applications

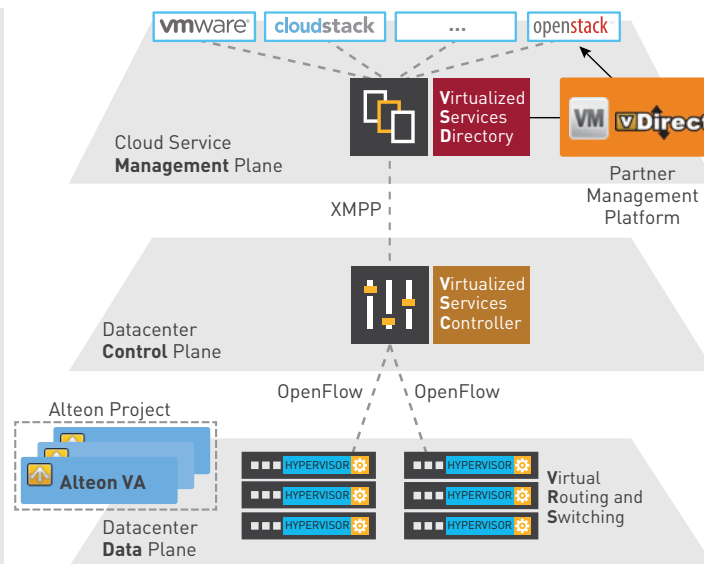
Powered by Nuage Networks and Radware

Solution overview

The joint Nuage Networks and Radware solution helps your network become more agile, secure, and automated. Launch services faster, reduce operational costs, and take full advantage of virtualization and cloud technologies without compromising performance or scale.

The Nuage Networks Virtualized Services Platform (VSP) provides a versatile multitenant overlay networking platform that securely connects virtual as well as physical datacenter assets with full service chaining capabilities.

Radware's Alteon Virtual Appliance (Alteon VA™) is a fully-functional Application Delivery Controller (ADC) solution. Packaged as a virtual appliance, it lets you take an application-aware approach to deploying and managing applications, guaranteeing full availability, maximum performance and complete security. Alteon VA provides identical functionality to Alteon physical ADC devices, including local and global server load balancing, Layer 7 capabilities and application acceleration.



- Complete elasticity in deploying ADC and security services throughout the network
- High-throughput overlay networks and ADC services wherever required
- Integrated solution that simplifies the deployment, management and monitoring of ADC and security solutions
- High-scale network services with NFV-compliant ADC

Together, the Nuage Networks™ Virtualized Services Platform (VSP) and Radware's Alteon Virtual Appliance (VA) provide an application-centric, Software Defined Networking (SDN)-based cloud solution that virtualizes and simplifies your datacenter network so you can maximize the value of your cloud infrastructure.

Complex, static networking models require tedious, error-prone manual programming, which increases operational costs, reduces efficiency, and delays the availability of network services for cloud-based financial applications. The delivery of business applications from the cloud can improve business agility and simplify operations based on the rapid and cost-effective instantiation of the underlying applications. To deliver on this promise, your datacenter network must be as agile and flexible as your virtualized server and storage infrastructure.

Based on a unique, application-centric approach, Nuage Networks and Radware have come together with a SDN-based cloud

solution that abstracts application delivery control requirements from your physical network topology to streamline management operations and improve agility. Programmable business logic and a powerful policy engine lets you define ADC requirements once in simplified application terms and ensure compliance with resource policies across your infrastructure — on both a per tenant and per application basis.

Event-driven network service instantiation reserves network resources as they are required and without manual intervention, allowing the demands of cloud applications to be quickly met for thousands of users. This frees network administrators to focus on critical issues such as supporting the launch of new applications.

Seamless interoperability across multiple domains and datacenters lets you place cloud workloads optimally across your infrastructure, improving server utilization and allowing cloud bursting and hybrid cloud services.

Nuage Networks and Radware Integrated Solution features and benefits

- Flexible overlay networking platform that adapts to evolving business needs
- Integration of leading solutions to deliver secure business applications, regardless of workload (container, virtual machine, bare metal), or hypervisor type or location (one or multiple datacenters, public cloud)
- Customizable service profiles to tailor services per customer type and accelerate onboarding
- Global server load balancing to support business-critical applications across cloud and non-cloud infrastructures without additional software or hardware
- On-demand ADC service provisioning according to individual customer needs
- Traffic steering to scale applications by disaggregating functionality across servers
- Accelerated provisioning to improve adoption of cloud services
- Full automation of Day 0 through 2+ operations to provide best use of staffing power and shorten time to launch new services
- Native integration with OpenStack using tenant-facing and standard, non-proprietary APIs
- Per-tenant resource allocation to enable fault tolerance and resource assurance

About Radware

Radware is a global leader of application delivery and cyber security solutions for virtual, cloud and software defined data centers. Its award-winning solutions portfolio delivers service level assurance for business-critical applications, while maximizing IT efficiency. Radware's solutions empower more than 10,000 enterprise and carrier customers worldwide to adapt to market challenges quickly, maintain business continuity and achieve maximum productivity while keeping costs down.

Learn more at www.radware.com

Alteon VA improves application availability and guarantees SLAs by leveraging dedicated virtual resources and running advanced load balancing features, including:

Alteon's local and global server load balancing ensures the optimal distribution of requests between virtual machines and available VMs that are required to handle requests. In multisite, global deployments, load can be distributed across sites based on the location of clients and the DNS response times.

With each cloud tenant assigned a dedicated Alteon VA Virtual Machine (VM) (or pair), a dedicated amount of compute resources is available solely to the application delivery function, without any contention with other services or tenants. This ensures the proper QoE for tenant applications.

Advanced health monitoring functionality tests servers with actual application transactions and evaluate a server's ability to deliver specific content, beyond the limited "are you alive" type of health monitoring. Consequently, a far greater sensitivity to QoE variation is available in the ADC, and the load can be distributed more precisely between servers.

Radware's Alteon VA is designed to provide maximum ADC agility for Nuage Networks VSP-based virtualized data centers. While taking advantage of the virtual infrastructure dynamic service provisioning, decommissioning and migration, Alteon VAs can be rapidly provisioned and deployed in the datacenter to perform application delivery services and provide greater business agility in minutes.

Radware's AppShape™ provides application configuration templates, automatic configuration synchronization and full reporting, compliance and logging, enabling fast application roll-out and simplified operations over a Nuage Networks VSP infrastructure for greater cost reduction.

Using Radware's Alteon VA and vDirect™ plug-in allow you greater operational simplicity and higher efficiency by streamlining virtualized datacenter workflows. The result is a consistent and simplified workflow for managing the virtual datacenter.

About Nuage Networks

Nuage Networks strikes at the heart of the cloud networking challenge: Choreographing datacenter and wide-area networks to maximize responsiveness, utilization and visibility. Nuage Networks delivers a highly programmable infrastructure that bridges the gap between the application-centric view and the equally important network-centric view, realizing the full power of SDN. The Nuage Networks solution combines groundbreaking SDN and virtualization techniques with unmatched networking expertise to deliver a massively scalable solution that consistently spans datacenters and remote locations. Our solution enables enterprise IT to respond instantly and securely to the demands of users and applications anywhere.

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