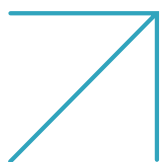


Cloud-Augmented Application Delivery and Security for Cloud and Software-Defined Environments



Overview

Applications power digital transformation, but as workloads span private clouds, public clouds and software-defined data centers, delivering and securing them consistently has become increasingly complex. Traditional virtual ADC and security solutions create operational overhead, require deep expertise and lack scalability and consistent protection across environments.

Radware Alteon Virtual Appliance (VA) redefines software-based application delivery by combining high-performance ADC capabilities with cloud-augmented security through Alteon Protect. This unified architecture delivers on-device enforcement with cloud-scale intelligence, enabling organizations to achieve consistent application delivery, protection and visibility across hybrid and multi-cloud environments.

Key Benefits



Security-Led, Cloud-Augmented ADC

- Integrated virtual ADC with cloud-based WAAP services (WAF, API security, bot protection and Web DDoS)
- No traffic rerouting, no DNS changes and no SSL key sharing
- Eliminate “Harvest Now, Decrypt Later” scenarios with public key cryptography (PKC) support
- Unified protection across private and public cloud and hybrid environments
- Reduced vendor sprawl with a single integrated platform



Elastic Scalability with Global Elastic Licensing (GEL)

- Dynamically scale virtual ADC capacity across any environment
- Spin up or down instances based on workload demand
- Reuse capacity across environments with a single license
- Reduce total cost of ownership and eliminate overprovisioning



AI-Driven Operations and Analytics

- Real-time SLA visibility across applications and environments
- AI-driven root cause analysis and anomaly detection
- Faster troubleshooting and reduced MTTR
- Unified analytics across ADC and cloud security services



Simplified Operations and Automation

- Full lifecycle automation with REST APIs, Ansible, Terraform and orchestration tools
- Native integration with VMware, OpenStack, Nutanix, AWS, Azure and GCP
- Kubernetes-native integration via Alteon Kubernetes Connector (AKC)
- Enables both NetOps and DevOps teams to operate efficiently



Proven, Low-Risk Migration

- Seamless migration from legacy ADC platforms to virtual environments
- No architectural changes required
- Supports hybrid and multi-cloud deployments out of the box

Application Delivery Capabilities

Alteon VA ensures application availability, performance and scalability in cloud environments:

- High-performance server load balancing and global server load balancing
- Advanced health checks to ensure optimal application availability
- SSL offloading for improved application performance
- Application performance optimization (HTTP/2/3, compression, TCP optimization)
- TCL (AppShape++) scripting for rapid customization and protocol support

Cloud-Augmented Application Protection (Alteon Protect)

Alteon VA integrates on-device enforcement with cloud-scale security services to deliver comprehensive protection without impacting application performance.

Unified Protection Across Environments

- Cloud-based WAAP augments on-device security for advanced application protection
- API discovery and security with behavioral analysis
- Bot management with device fingerprinting and intent analysis
- Real-time threat intelligence with global attack correlation

Advanced Web DDoS Protection

- Inline, low-latency protection against Layer-7 attacks
- Always-on behavioral detection and mitigation
- Automatic cloud escalation for large-scale attacks
- No impact to latency or application performance

Sideband Cloud Protection Architecture

- Small traffic samples are analyzed in the cloud (no inline dependency)
- Enforcement remains on the Alteon VA for full control and low latency
- No SSL key sharing or traffic redirection required

Zero-Trust Security Model

- Unified authentication gateway with SSO and MFA
- Consistent policy enforcement across environments
- Protection against OWASP Top 10 and API Top 10 threats

Cloud-Native and Multi-Cloud Deployment

Alteon VA is designed for modern cloud environments:

- Deploy in private cloud (VMware, OpenStack, Nutanix)
- Deploy in public cloud (AWS, Azure, GCP)
- Support hybrid and multi-cloud architectures
- Consistent feature set across all environment

Automation and Lifecycle Management

Alteon VA enables full automation of ADC services:

- Day 0: Automated provisioning of virtual ADC instances
- Day 1: Network and system configuration
- Day 2: Application service deployment
- Day 3: Ongoing maintenance and updates

Integration with orchestration platforms and DevOps tools ensures rapid deployment and operational efficiency.

Smart Analytics and Visibility

Alteon VA provides unified visibility across application delivery and security:

- Single-pane-of-glass management via Cyber Controller
- Real-time monitoring of performance and security metrics
- Actionable insights and AI-driven recommendations
- Integration with third-party tools (Splunk, Grafana, Terraform)

Why Choose Radware Alteon

Radware Alteon VA delivers a modern, cloud-ready ADC platform that combines:

- Integrated security with cloud intelligence
- Elastic scalability for cloud-native workloads
- AI-driven operations and analytics
- Flexible licensing with GEL
- Proven, low-risk migration to virtual and cloud environments

Summary

Radware Alteon VA, enhanced with Alteon Protect, delivers a security-led, cloud-augmented virtual ADC architecture. By combining on-device performance with cloud-scale security and AI-driven operations, Alteon VA enables organizations to scale elastically, simplify operations and protect applications consistently across any cloud or software-defined environment.

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