

Cloud-Augmented Application Delivery and Security



Overview

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

Radware Alteon redefines application delivery by combining high-performance ADC capabilities integrated 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 on-device 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 on-premises and cloud environments
- Reduced vendor sprawl with a single integrated platform



Elastic Scalability with Global Elastic Licensing (GEL)

- Dynamically scale capacity across hardware, virtual and cloud deployments
- Eliminate overprovisioning and reduce total cost of ownership
- Reuse capacity across environments with a single license



AI-Driven Operations and Analytics

- Real-time SLA visibility and application performance monitoring
- 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 and 3rd party orchestration tools
- 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
- No architectural changes required
- Supports hybrid and multi-cloud environments out of the box

Application Delivery Capabilities

Alteon ensures application availability, performance and scalability through advanced ADC capabilities:

- High-performance server load balancing and global server load balancing
- Advanced health checks to ensure optimal application availability
- SSL offloading with dedicated hardware acceleration
- 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 Protect integrates on-device enforcement with cloud-scale security services to deliver comprehensive application protection:

Unified Protection Across Environments

- Cloud-based WAAP augments on-device security for advanced application protection
- Available API discovery and security options
- 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
- Automatic cloud escalation for large-scale attacks to scale beyond device limits
- No impact to latency or application performance

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

Architecture and Deployment

Alteon is available across multiple form factors with consistent architecture:

- Hardware appliances (entry, mid-range and high-end)
- Virtual appliances for public and private cloud
- Cloud-native deployments for public cloud environments

All form factors share the same code base, enabling seamless portability and consistent operations across environments.

Automation and Lifecycle Management

Alteon enables full automation of ADC services:

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

Integration with VMware, OpenStack, Kubernetes and DevOps tools such as Ansible and Terraform ensures rapid deployment and operational efficiency.

Smart Analytics and Visibility

Alteon 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 recommendations
- Integration with third-party tools (Splunk, Grafana)

Why Choose Radware Alteon

Radware Alteon delivers a modern ADC platform that combines:

- Integrated security with cloud intelligence
- Elastic scalability and flexible licensing
- AI-driven operations and analytics
- Proven, low-risk migration programs

Together, these capabilities enable organizations to modernize application delivery, improve security posture and reduce operational complexity and cost.

Summary

Radware Alteon, enhanced with Alteon Protect, delivers a security-led, cloud-augmented ADC architecture that unifies application delivery and protection. By combining on-device performance with cloud-scale security and AI-driven operations, Alteon enables organizations to scale beyond hardware limits, simplify operations and protect applications consistently across any environment.

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