



# Solution Brief

## Comprehensive Security for Web Applications on VMware® vCloud Air™

Real-time application protection against attacks

vCloud Air allows you to quickly extend your data center into the cloud, providing customers secure infrastructure, networking and storage. However, the responsibility of protecting web applications that are moved to the cloud still rests squarely on the customers. Web applications connect directly to databases, operating systems, and users. They are accessible to anyone with an Internet connection. This makes them an ideal target for attackers. According to the 2014 Verizon Data Breach Report, Web Application Attacks are the #1 attack vector today, overtaking Point of Sale (PoS) attacks from previous years.

With wide use of third party code and developers focusing on delivery rather than security, all web applications are vulnerable. With the Barracuda Web Application Firewall now available on vCloud Air, you can easily secure this threat vector. Having secured thousands of production web applications against more than 11 billion attacks since 2008, the Barracuda Web Application Firewall is the ideal solution for easy-to-use and real-time application security.

### Keep your web apps safe in the cloud

Deployed inline as an application proxy, the Barracuda Web Application Firewall inspects all inbound and outbound traffic to provide superior protection against all known and unknown (zero-day) web application attacks. It provides protection against the OWASP Top 10 attacks such as SQL Injection and Cross-Site Scripting, and ensures PCI Compliance for section 6.6. Automatic signature updates patch against the latest vulnerabilities without requiring changes on the servers.

### The Barracuda Difference

The Barracuda Web Application Firewall integrated in vCloud Air stands out from the competition with market-leading features like URL Encryption, Integrated AV, Instant SSL, Exception Profiling, Client Fingerprinting, CAPTCHA Integration, Active/active clustering, TOR and anonymous proxy detection, Multi Tenancy and FTP Security. It is ICSA certified and NSS Recommended.

The customer's investment is protected with a unique Virtual License Portability program. A flat licensing model provides all the advanced features as well as a centralized management solution at a single attractive price point.

**VMware vCloud® Air™** is a secure, dedicated hybrid cloud service operated by VMware, built on the trusted foundation of VMware vSphere®.

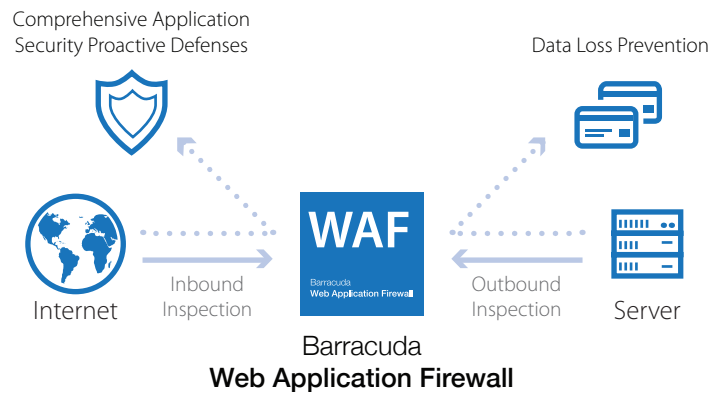
The service supports existing workloads and third-party applications as well as new application development, giving IT a common platform for seamlessly extending its data center to the cloud.

“The more closely we worked with the Barracuda Web Application Firewall, the more we were convinced by its performance, functionality, and above all, its operations.”

Charles Scholtens, IT Consultant  
Belga News Agency

## How it works

The Barracuda Web Application Firewall acts as a reverse proxy to the protected servers. It performs protocol layer checks for HTTP/S, and deep inspections on all the application layer constructs, such as URL, query string, parameters, headers, cookies and form fields for malicious inputs. It can secure the network and SSL stack of the protected servers and provide Perfect Forward Secrecy (PFS) for HTTPS communications.



To learn more about Barracuda Web Application Firewall, visit [www.barracuda.com/vcloud](http://www.barracuda.com/vcloud).