Web Application Firewall

Web Application Firewalls are the next generation of products used to detect and prevent attacks against web applications. The use of an effective Web Application Firewall can ensure that your critical applications are kept secure and available for your users. 24 Solutions offers a host of effective security tools to protect your business, one of which is a top-notch WAF.
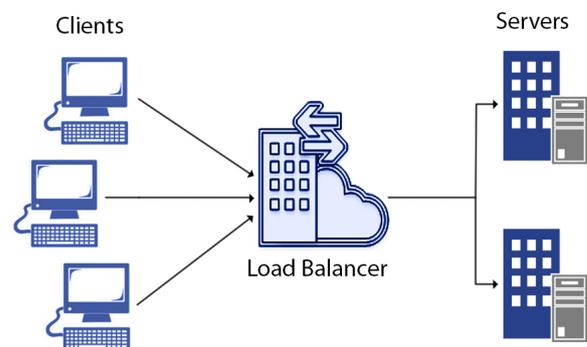
Web Application Firewall

24 Solutions offers a Web Application Firewall (WAF), which is one of the many security measures we can institute to ensure the safety of your organization's IT environment. The Web Application Firewall will analyze web traffic and detect attacks and malicious traffic. The WAF provides additional protection against threats that an Intrusion Protection System (IPS) cannot prevent.

While IPSs can interrogate traffic against anomalies and signatures, WAFs interrogate the behavior and logic of what is requested and returned by that traffic. WAFs protect against web application attacks like SQL injections, cross-site scripting, parameter or URL tampering, session hijacking, and buffer overflows by analyzing each incoming web session.

24 Solutions can offer a WAF that not only detects attacks that are known to occur in web applications, but can also detect and prevent new unknown types of attacks. By monitoring traffic and the requests made for each incoming and outgoing packet, the WAF essentially creates a baseline of normal activity, and can then watch for any unusual patterns in traffic and defend against unknown attacks.

The WAF also widely supports complex rulesets of how to handle traffic, providing much flexibility to create a configuration best inline with the different requirements.

Load Balancing

Our Web Application Firewall is always combined with our Load Balancer (LB), which is a hardware based load-balancing service with SSL acceleration. The WAF has to support failover and therefore works with load balancers to prevent disruption of service, so that we can always provide the highest availability of your protected applications.

With 24 Solutions' load-balancing service, the workload can be evenly distributed between two or more servers in order to achieve an optimal use of resources, maximize throughput, avoid overload, and minimize response time for

your applications. Through our combination of IT services, we can ensure that your applications are both highly secure and operating optimally with the highest availability and safety possible.

Where Network Firewalls fall short

Traditional Network Firewalls have fallen short in their inability to inspect the data of application layers and in their lack of analysis in distinguishing different kinds of web traffic. With most network traffic using web protocols, traditional firewalls cannot distinguish between legitimate business applications and attacks, so they are only effective at rejecting known threats. Malware can also be carried right through the firewall just by concealing it in SSL (secure sockets layer) traffic.

While a Network Firewall can provide an initial defense and protect outgoing traffic from misuse by users, a Web Application Firewall can give much needed protection in front of the server using HTTP/HTTPS oriented security equipment. The WAF is a self teaching software that studies an application over a period of time to learn general behavior of traffic, and then can monitor the application for any unusual or threatening behavior.