DEFEND YOUR APPS AT SCALE AND SPEED
A GUIDE TO BIG-IP CLOUD EDITION. PER-APP SOFTWARE SERVICES AND PROTECTION.
INTRODUCTION

Security professionals understand that, in absolute terms, the most secure system (such as a system encased in concrete and sitting at the bottom of a deep lake) is not likely to be acceptable to the business. Security operations are as much about finding the right balance between security and acceptable business constraints as they are about identifying the most potent security solutions. F5 BIG-IP Cloud Edition was created with that balance in mind.

BIG-IP Cloud Edition provides security operations professionals with the tools to embed corporate security policies into a template attached to each application upon deployment. You can update and test policies and redeploy on your timeline, without impacting development and deployment schedules for your application teams.

From the perspective of application development, security compliance becomes much simpler and less intrusive. Developers simply subscribe to the security policy in the same way that they subscribe to other common services in the development stack. Importantly, when it is time to update your security policies, you can centrally manage the updates and then push them out to the various applications that subscribe to the policies. This also simplifies the auditing process and solves for issues like policy drift that occur when some applications are overlooked during security updates and consequently drift out of compliance.

The advantages of making security easy to implement cannot be overstated. The pressure to quickly deliver revenue-generating applications to market can easily supersede good intentions around secure practices, leaving the business at risk. At the same time, malicious traffic drives up infrastructure costs and distorts the customer interaction data used to make business decisions. BIG-IP Cloud Edition simplifies compliance while ensuring strong, consistent security across your entire application portfolio.

¹ Verizon 2017 Data Breach Investigations Report
Threats to applications are evolving. Your applications need to evolve, too. The increase in brute-force attacks, credential-stealing malware, and the ongoing discovery of application, framework, or web server bugs demand that you step up your level of protection.

Sophisticated threats demand sophisticated protection. Simple pattern matching and basic web attack mitigation may not provide you with the protection your application needs. As the hacking arms race heats up, you need a better defense that can be deployed at scale—and at speed.

As attackers increasingly use automated tools to bypass security devices, steal sensitive data, or simply disrupt your operations, you need an automated response—along with a way to deploy advanced policies to every application.

BIG-IP Cloud Edition Advanced Web Application Firewall (WAF) provides leading levels of protection, along with tunable, out-of-the-box policies that can be applied as part of BIG-IP Cloud Edition deployments simply by adding the policy to the deployment template.
Denial-of-service (DoS) attacks are bad news. They are either designed to take your app offline, cost you money, or distract you while something worse happens. DoS attacks might be simple volumetric floods which are usually easy to spot—even if they can be hard to mitigate—or more insidious application-layer attacks. Some will tie up your server resources with slow connections, while others will spider your application, looking to create disruption. And if you’re using public cloud services, every bot could potentially drive up costs. Regardless of the design, you need to defend against these attacks.

Spotting and defending against application DoS and “bad bot” attacks requires sophisticated behavioral analysis and real-time application monitoring. Plus, your protection needs to be advanced, dynamic, and self-learning. The good news is: that’s just what you get with BIG-IP Cloud Edition Advanced WAF.

ADVANCED DDOS PROTECTION KEEPS YOUR APPLICATIONS ONLINE—AND YOUR COSTS INLINE.

A GROWING PERCENTAGE OF WEB TRAFFIC TO YOUR SITE IS PROBABLY FROM BOTS, SOME MALICIOUS, SOME NOT. EITHER WAY BOTS CAN DISTORT YOUR DATA AND DRIVE UP YOUR COSTS.²
THE MOST EFFECTIVE SECURITY POLICIES ARE THE ONES PEOPLE USE

Security teams often struggle to remain compliant with policies that are intended to protect the business, especially when businesses prioritize revenue-generating activity over higher security standards.

BIG-IP Cloud Edition simplifies the process of provisioning industry-leading application security services in front of every application. Your corporate security standards are embedded into a template that can easily and consistently be deployed into production.

Because the security services are provided on a per-app basis, security policy changes only apply to one application at a time, eliminating a source of friction that can occur when changes needed by one application impact multiple others. This front-end provisioning makes it easier and more cost effective to protect every application and reduce your vulnerability to attacks.

With complexity increasing every day, organizations can struggle to provide strong, standardized protection for critical applications and the data that flows through them. Fully customizable BIG-IP Cloud Edition security templates offer industry-leading application security out of the box, which makes it easy to deploy consistent security policies across your entire application portfolio.

Learn more at f5.com/cloudedition.
UNLEASH YOUR APPS WITH MULTI-CLOUD FREEDOM

With cloud, the options have multiplied and so has the complexity. Ensuring every app works flawlessly in every environment is a big ask. You need to scale, you need consistent security, you need to automate and simplify operations to do it faster. You need to move apps freely between clouds with consistent services. You need the freedom to deliver any app, anywhere with confidence.

To learn more, visit f5.com/multicloud.