Detecting and Mitigating Cyberattack Campaigns

Prevent real-world attacks by detecting and mitigating the risk.
Why Cyberattack Campaigns Pose a Threat

Cyber adversaries are intelligent, fast, and increasing in number, posing a constant threat to businesses and security professionals. While standard security tools protect against a wide range of cyberattacks, they often struggle to keep up with skilled threat actors. Among these attacks, web applications remain the primary target.

Enterprise organizations typically rely on a wide array of applications, ranging from 200 to 1,000 (Figure 1), spread across multiple public clouds, private clouds, and data centers. This complex landscape presents a challenge for organizations in terms of ensuring both availability and security for these applications. While many organizations have mature vulnerability management programs in place, often these are simply not enough to defend against the number of vulnerabilities reported—and unreported—over a year. Unfortunately, security operations (SecOps) teams don’t have the luxury of downtime.

Targeted threat campaigns can leverage known and used vulnerabilities to launch exploits and coordinate attacks. These threats can be sophisticated and difficult to detect. This is either because campaigns are designed cleverly to evade standard WAF rules and signatures or because detecting them requires comprehensive and coarse security policies that may increase false positives, overwhelming a security team and risking that attacks will go unnoticed in the deluge of alerts.

Figure 1: F5 2022 State of Application Strategy Report

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Addressing Sophisticated, Targeted Cyberattack Campaigns

The best way to mitigate the coordinated exploits of cyberattacks on applications and APIs via vulnerable code is by deploying a web application firewall (WAF). But sophisticated attacks can be difficult to detect with baseline WAF security policies and configurations. Therefore, organizations need a WAF with tactical threat intelligence specifically designed to identify and mitigate sophisticated, targeted attacks. Even if organizations are slow in patching a known vulnerability, a WAF with tactical intelligence can protect most critical apps and vital APIs from the attacks and exploits of coordinated threat campaigns.

F5 Threat Campaigns is an add-on threat intelligence service for F5 BIG-IP® Advanced WAF®, and is included in F5 NGINX® App Protect WAF and F5 Distributed Cloud WAF as well. F5 Threat Campaigns provides intelligence with contextual information about the nature and purpose of active threat campaigns. A standard WAF may detect a combination of identifiers in a web application form, but without threat intelligence, it cannot specifically search for certain payloads or unique identifiers. These highly specific identifiers surpass traditional signatures, leading to a significant reduction in false positives.

Organizations today require live and actionable threat intelligence that can enhance the efficacy of existing security controls, including WAFs. F5 Threat Campaigns achieves this with controls that automatically detect and block active threat campaigns, bolstering security measures.
The F5 Threat Campaigns service leverages a team of security experts who are dedicated to finding, analyzing, and dissecting real ongoing attacks in the wild. With an arsenal of resources that include a worldwide network of honeypots and more, the service is automatically updated with the latest campaign information released by F5. This ensures enterprises receive rapid and preemptive protection against current attack campaigns before they can have an effect. The insight collected helps security operators gain a comprehensive understanding of potential threats to their apps or infrastructure, including attack methods, perpetrators, and risk assessment.

To enhance visibility into cyberattack campaigns, the F5 Threat Campaigns world map is available on f5.com for anyone to see and use. This interactive map can be viewed at scale, delivering details into ongoing threat campaigns.

**Conclusion**

F5 Threat Campaigns is easy to use and requires only a simple activation with no need for additional configuration. The F5 Threat Campaigns service provides an additional layer of protection against real-world attack campaigns without false positives. As an add-on to F5 BIG-IP Advanced WAF (and included with F5 NGINX App Protect WAF and F5 Distributed Cloud WAF), it enables organizations to cover any security gaps that attackers might otherwise get through.

To learn more, visit [f5.com/products/security/advanced-waf](http://f5.com/products/security/advanced-waf) or contact an F5 representative.