



# F5 fixes critical vulnerability discovered by Positive Technologies in BIG-IP application delivery controller

2 JULY 2020

Positive Technologies expert Mikhail Klyuchnikov has discovered a vulnerability in the configuration interface of the BIG-IP application delivery controller (ADC) used by some of the world's biggest companies. Attackers can run commands as an unauthorized user and completely compromise a system, including interception of controller application traffic. The vulnerability can be exploited remotely.

According to threat intelligence monitoring, Positive Technologies experts found that in June, 2020 there were more than 8,000 vulnerable devices available from the internet in the world, of which 40% lie in the United States, 16% in China, 3% in Taiwan, and 2.5% in Canada and Indonesia. Less than 1% of vulnerable devices were detected in Russia.

Vulnerability CVE-2020-5902 received a CVSS score of 10, indicating the highest degree of danger. To exploit it, an attacker needs to send a specifically crafted HTTP request to the server hosting the Traffic Management User Interface (TMUI) utility for BIG-IP configuration.

**Researcher Mikhail Klyuchnikov said:** "By exploiting this vulnerability, a remote attacker with access to the BIG-IP configuration utility could, without authorization, perform remote code execution (RCE<sup>1</sup>). The attacker can create or delete files, disable services, intercept information, run arbitrary system commands and Java code, completely compromise the system, and pursue

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14.1.2.6, 15.1.0.4). Users of public cloud marketplaces such as AWS, Azure, GCP, and Alibaba should switch to BIG-IP Virtual Edition (VE) versions 11.6.5.2, 12.1.5.2, 13.1.3.4, 14.1.2.6, 15.0.1.4, or 15.1.0.4, if available. Other recommendations are given in the F5 BIG-IP bulletin. To block this and other potential attacks, companies may deploy web application firewalls such as PT Application Firewall.

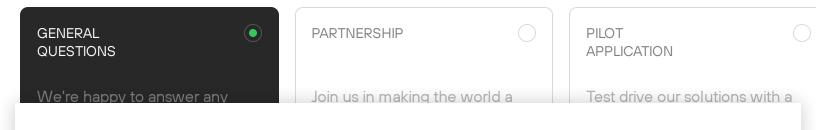
F5 has also fixed a second vulnerability discovered by Mikhail Klyuchnikov in the BIG-IP configuration interface. XSS vulnerability CVE-2020-5903 (score: 7.5) enables running malicious JavaScript code as the logged-in user. If the user has administrator privileges and access to Advanced Shell (bash), successful exploitation can lead to a full compromise of BIG-IP via RCE. F5 has provided details and recommendations in a security bulletin.

To block attacks exploiting vulnerabilities such as CVE-2020-5902 and CVE-2020-5903, companies may deploy web application firewalls such as PT Application Firewall.

1. Remote Code Execution is one of the most critical threat according to OWASP. In 100 percent of cases, remote code execution on a server allows hacking the attacked resource.

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