



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 (RCE¹). The attacker can create or delete files, disable services, intercept information, run arbitrary system commands and Java code, completely compromise the system, and pursue further targets, such as the internal network. RCE in this case results from security flaws in multiple components, such as one that allows directory traversal exploitation. This is particularly dangerous for companies whose F5 BIG-IP web interface is listed on search engines such as Shodan. Fortunately, most companies using the product do not enable access to the interface from the internet.”*

Affected companies are advised to update. Vulnerable versions of BIG-IP (11.6.x, 12.1.x, 13.1.x, 14.1.x, 15.0.x, 15.1.x) should be replaced by the corresponding updated versions (11.6.5.2, 12.1.5.2, 13.1.3.4, 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**.

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F5 has provided details and recommendations in a **security bulletin**.

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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