

## Security Advisory 2023-050

# Citrix NetScaler Critical Vulnerability

July 19, 2023 — v1.0

**TLP:CLEAR**

### History:

- 19/07/2023 — v1.0 – Initial publication

## Summary

On July 18, 2023, Citrix released a security bulletin regarding one critical vulnerability and two high severity vulnerabilities affecting Citrix NetScaler Application delivery controllers (ADCs) and Netscaler Gateway [1]. Citrix Netscaler ADC is a purpose-built networking appliance used to improve the performance, security, and resiliency of applications delivered over the web [2]. Citrix NetScaler Gateway consolidates remote access infrastructure to provide single sign-on across all applications whether in a data center, in a cloud, or if the apps are delivered as SaaS apps. It allows people to access any app, from any device, through a single URL [3].

## Technical Details

**CVE-2023-3519** (CVSS score of 9.8): Unauthenticated remote code execution. **Exploits of CVE-2023-3519 on unmitigated appliances have been observed!** In order to exploit the vulnerability the appliance must be configured as a Gateway (VPN virtual server, ICA Proxy, CVPN, RDP Proxy) or AAA virtual server [1].

**CVE-2023-3466** (CVSS score of 8.3): Reflected Cross-Site Scripting (XSS). The vulnerability can be exploited if a victim access an attacker-controlled link in the browser while being on a network with connectivity to the appliance [1].

**CVE-2023-3467** (CVSS score of 8.0): Privilege Escalation to root administrator (`nsroot`). Authenticated access to NSIP or SNIP with management interface access is required in order to leverage this flaw [1].

## Affected Products

The following supported versions of NetScaler ADC and NetScaler Gateway are affected by the vulnerabilities [1]:

- NetScaler ADC and NetScaler Gateway 13.1 before 13.1-49.13
- NetScaler ADC and NetScaler Gateway 13.0 before 13.0-91.13
- NetScaler ADC 13.1-FIPS before 13.1-37.159
- NetScaler ADC 12.1-FIPS before 12.1-55.297
- NetScaler ADC 12.1-NDcPP before 12.1-55.297

Note: NetScaler ADC and NetScaler Gateway version 12.1 is now End Of Life (EOL) and is vulnerable [1].

## Recommendations

CERT-EU highly recommends installing the latest updated versions as soon as possible.

## References

[1] <https://support.citrix.com/article/CTX561482/citrix-adc-and-citrix-gateway-security-bulletin-for-cve20233519-cve20233466-cve20233467>

[2] <https://www.netscaler.com/articles/what-is-an-application-delivery-controller>

[3] <https://docs.citrix.com/en-us/citrix-gateway.html>