

## Security Advisory 2022-087

# Critical Vulnerability in Citrix Gateway and Citrix ADC

December 13, 2022 — v1.0

**TLP:CLEAR**

### History:

- 13/12/2022 — v1.0 – Initial publication

## Summary

On December 13, 2022, Citrix released a Security Bulletin regarding a critical vulnerability CVE-2022-27518 affecting its Citrix Gateway and Citrix ADC products [1]. If exploited, this vulnerability can enable an unauthenticated remote attacker to perform arbitrary code execution on the appliance.

According to NSA, the vulnerability is being exploited by APT5 group [2, 3]. APT5 is also known to have exploited Pulse Secure VPN vulnerabilities in 2021. It is then highly recommended to install the last security updates.

## Technical Details

This zero day vulnerability CVE-2022-27518 is due to improper control of a resource through its lifetime. This vulnerability is exploitable only if Citrix ADC or Citrix Gateway is configured as a SAML SP or a SAML IdP.

## Affected Products

The following supported versions of Citrix ADC and Citrix Gateway are affected by this vulnerability:

- Citrix ADC and Citrix Gateway 13.0 before 13.0-58.32
- Citrix ADC and Citrix Gateway 12.1 before 12.1-65.25
- Citrix ADC 12.1-FIPS before 12.1-55.291
- Citrix ADC 12.1-NDcPP before 12.1-55.291

Citrix ADC and Citrix Gateway version 13.1 is unaffected. Moreover for Citrix-managed cloud services or Citrix-managed Adaptive Authentication there is not need to take any action.

For identifying if Citrix ADC or Citrix Gateway is configured as a SAML SP or a SAML IdP, you need to inspect the `ns.conf` file for the following commands:

- `add authentication samlAction` - Appliance is configured as a SAML SP or,

- `add authentication samlIdPProfile` - Appliance is configured as a SAML IdP

If either of the commands are present in the `ns.conf` file and if the version is an affected version, then the appliance must be updated.

## Recommendations

CERT-EU highly recommends installing the latest updated versions of Citrix ADC or Citrix Gateway as soon as possible:

- Citrix ADC and Citrix Gateway 13.0-58.32 and later releases
- Citrix ADC and Citrix Gateway 12.1-65.25 and later releases of 12.1
- Citrix ADC 12.1-FIPS 12.1-55.291 and later releases of 12.1-FIPS
- Citrix ADC 12.1-NDcPP 12.1-55.291 and later releases of 12.1-NDcPP

Please note that Citrix ADC and Citrix Gateway versions prior to 12.1 are EOL and customers on those versions are recommended to upgrade to one of the supported versions.

## Detection

Please consider using the NSA APT5: Citrix ADC Threat Hunting Guidance [3] to verify possible compromise.

## References

[1] <https://support.citrix.com/article/CTX474995/citrix-adc-and-citrix-gateway-security-bulletin-for-cve202227518>

[2] <https://www.bleepingcomputer.com/news/security/hackers-exploit-critical-citrix-adc-and-gateway-zero-day-patch-now/>

[3] <https://media.defense.gov/2022/Dec/13/2003131586/-1/-1/0/CSA-APT5-CITRIXADC-V1.PDF>