

## Security Advisory 2022-076

# Critical Vulnerability in VMware Cloud Foundation

October 31, 2022 — v1.0

TLP:CLEAR

### History:

- 31/10/2022 — v1.0 – Initial publication

## Summary

On October 25, 2022, VMware released a new version of Cloud Foundation (NSX-V) fixing a critical Remote Code Execution vulnerability [1]. VMware has confirmed that exploit code leveraging CVE-2021-39144 against impacted products has been published [2]. It is highly recommended applying the last version.

## Technical Details

The vulnerability, identified by CVE-2021-39144, with a CVSS score of 9.8 out of 10, is due to an unauthenticated endpoint that leverages XStream for input serialization in VMware Cloud Foundation (NSX-V). By exploiting this vulnerability, an unauthenticated attacker could achieve remote code execution in the context of the `root` user on the affected server.

## Affected Products

- All versions for VMware NSX Data Center for vSphere (NSX-V) prior to NSX-V 6.4.14 appliances [3]
- All the VMware Cloud Foundation(VCF) 3.x versions

## Recommendations

CERT-EU highly recommends applying the latest version or the workaround provided by VMware.

## References

- [1] <https://www.vmware.com/security/advisories/VMSA-2022-0027.html>
- [2] <https://srcincite.io/blog/2022/10/25/eat-what-you-kill-pre-authenticated-rce-in-vmware-nsx-manager.html>
- [3] <https://kb.vmware.com/s/article/89809>