

## VMware warns of critical vulnerability affecting vCenter Server product

2023-10-30 - Arnis Morkāns - Comments (0) - General

Advisory ID:VMSA-2023-0023

CVSSv3 Range:4.3-9.8

Issue Date:2023-10-25

Updated On:2023-10-25 (Initial Advisory)

CVE(s):CVE-2023-34048, CVE-2023-34056

Synopsis:VMware vCenter Server updates address out-of-bounds write and information disclosure vulnerabilities (CVE-2023-34048, CVE-2023-34056)

### Impacted Products

- VMware vCenter Server
- VMware Cloud Foundation

### 2. Introduction

An out-of-bounds write (CVE-2023-34048) and a partial information disclosure (CVE-2023-34056) in vCenter Server were responsibly reported to VMware. Updates are available to remediate these vulnerabilities in affected VMware products.

#### 3a. VMware vCenter Server Out-of-Bounds Write Vulnerability (CVE-2023-34048)

##### Description

vCenter Server contains an out-of-bounds write vulnerability in the implementation of the DCERPC protocol. VMware has evaluated the severity of this issue to be in the Critical severity range with a maximum CVSSv3 base score of [9.8](#).

##### Known Attack Vectors

A malicious actor with network access to vCenter Server may trigger an out-of-bounds write potentially leading to remote code execution.

##### Resolution

To remediate CVE-2023-34048 apply the updates listed in the 'Fixed Version' column of the 'Response Matrix' below to affected deployments.

### **Workarounds**

In-product workarounds were investigated, but were determined to not be viable.

### **Additional Documentation**

A supplemental FAQ was created for additional clarification. Please see: <https://via.vmw.com/vmsa-2023-0023-qna>

### **Notes**

- While VMware does not mention end-of-life products in VMware Security Advisories, due to the critical severity of this vulnerability and lack of workaround VMware has made a patch generally available for vCenter Server [6.7U3](#), [6.5U3](#), and [VCF 3.x](#). For the same reasons, VMware has made additional patches available for vCenter Server [8.0U1](#).
- Async vCenter Server patches for VCF 5.x and 4.x deployments have been made available. Please see [KB88287](#) for more information.

### **Acknowledgements**

VMware would like to thank Grigory Dorodnov of Trend Micro Zero Day Initiative for reporting this issue to us.

### **3b. VMware vCenter Server Partial Information Disclosure Vulnerability (CVE-2023-34056)**

#### **Description**

vCenter Server contains a partial information disclosure vulnerability. VMware has evaluated the severity of this issue to be in the Moderate severity range with a maximum CVSSv3 base score of [4.3](#).

#### **Known Attack Vectors**

A malicious actor with non-administrative privileges to vCenter Server may leverage this issue to access unauthorized data.

#### **Resolution**

To remediate CVE-2023-34056 apply the updates listed in the 'Fixed Version' column of the 'Response Matrix' below to affected deployments.

#### **Workarounds**

None.

#### **Additional Documentation**

None.

## Acknowledgements

VMware would like to thank Oleg Moshkov of Deiteriy Lab OÜ for reporting this issue to us.

## Response Matrix

Product	Version	Running On	CVE Identifier	CVSSv3	Severity	Fixed Version	Workarounds	Additional Documentation
VMware vCenter Server	8.0	Any	CVE-2023-34048, CVE-2023-34056	9.8, 4.3	Critical	<a href="#">8.0U2</a>	None	<a href="#">FAQ</a>
VMware vCenter Server	8.0	Any	CVE-2023-34048	9.8	Critical	<a href="#">8.0U1d</a>	None	<a href="#">FAQ</a>
VMware vCenter Server	7.0	Any	CVE-2023-34048, CVE-2023-34056	9.8, 4.3	Critical	<a href="#">7.0U3o</a>	None	<a href="#">FAQ</a>
VMware Cloud Foundation (VMware vCenter Server)	5.x, 4.x	Any	CVE-2023-34048, CVE-2023-34056	9.8, 4.3	Critical	<a href="#">KB88287</a>	None	<a href="#">FAQ</a>

## 4. References

### Fixed Version(s) and Release Notes:

#### VMware vCenter Server 8.0U2

Downloads and Documentation:

<https://customerconnect.vmware.com/downloads/details?downloadGroup=VC80U2&productId=1345&rPid=110105>

#### VMware vCenter Server 8.0U1d

Downloads and Documentation:

<https://customerconnect.vmware.com/downloads/details?downloadGroup=VC80U1D&productId=1345&rPid=112378>

#### VMware vCenter Server 7.0U3o

Downloads and Documentation:

<https://customerconnect.vmware.com/downloads/details?downloadGroup=VC70U3O&productId=974&rPid=110262>

#### Cloud Foundation 5.x/4.x

<https://kb.vmware.com/s/article/88287>

#### Mitre CVE Dictionary Links

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2023-34048>

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2023-34056>

#### FIRST CVSSv3 Calculator

CVE-2023-34048: <https://www.first.org/cvss/calculator/3.1#CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:>

[U/C:H/I:H/A:H](#)

CVE-2023-34056: <https://www.first.org/cvss/calculator/3.1#CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:>

[U/C:L/I:N/A:N](#)

## 5. Change Log

### 2023-10-25 VMSA-2023-0023

Initial security advisory.

## 6. Contact

E-mail: [security@vmware.com](mailto:security@vmware.com)

PGP key at:

<https://kb.vmware.com/kb/1055>

VMware Security Advisories

<https://www.vmware.com/security/advisories>

VMware Security Response Policy

[https://www.vmware.com/support/policies/security\\_response.html](https://www.vmware.com/support/policies/security_response.html)

VMware Lifecycle Support Phases

<https://www.vmware.com/support/policies/lifecycle.html>

VMware Security & Compliance Blog

<https://blogs.vmware.com/security>

Twitter

<https://twitter.com/VMwareSRC>

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