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# CVE-2021-22005: Critical File Upload **Vulnerability in VMware vCenter Server**



September 22, 2021 • 5 Min Read by Satnam Narang Blog Home / Cyber Exposure Alerts

VMware published an advisory addressing 19 vulnerabilities, including one critical flaw in vCenter Server that is reportedly simple to exploit.



### **Background**

On September 21, VMware published a security advisory addressing 19 vulnerabilities in vCenter Server, its centralized management software for VMware vSphere systems. The full list of vulnerabilities patched includes:

	CVE	Description	CVSSv3
Tracking Preferences		er Server file upload vulnerability	9.8
We use cookies and similar technologies on our websites and		er Server local privilege escalation vulnerability	8.8
applications to help provide you with the best possible online experience. By		a Server reverse proxy bypass vullerability	8.3
selecting "Opt in" below, you agree that we may store and access cookies and		that er server unauthenticated API endpoint vulnerability	8.1
similar technologies on your device.  Read more in our privacy policy.		er Server improper permission local privilege escalation vulnerabilities	7.8
Opt in	Opt out	or Server unauthenticated API information disclosure vulnerability	75









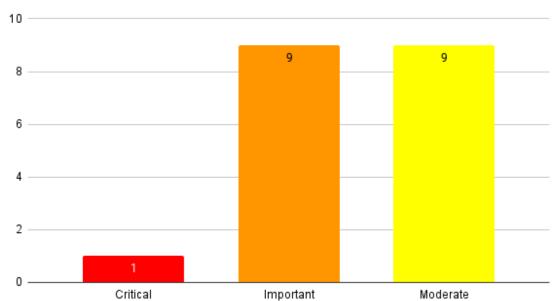


CVE-2021-22017	vCenter Server rhttpproxy bypass vulnerability	7.3
CVE-2021-22014	vCenter Server authenticated code execution vulnerability	7.2
CVE-2021-22018	vCenter Server file deletion vulnerability	6.5
CVE-2021-21992	vCenter Server XML parsing denial-of-service vulnerability	6.5
CVE-2021-22007	vCenter Server local information disclosure vulnerability	5.5
CVE-2021-22019	vCenter Server denial of service vulnerability	5.3
CVE-2021-22009	vCenter Server VAPI multiple denial of service vulnerabilities	5.3
CVE-2021-22010	vCenter Server VPXD denial of service vulnerability	5.3
CVE-2021-22008	vCenter Server information disclosure vulnerability	5.3
CVE-2021-22020	vCenter Server Analytics service denial-of-service Vulnerability	5.0
CVE-2021-21993	vCenter Server SSRF vulnerability	4.3

Source: VMware, September 2021

In addition to publishing the security advisory, VMware published a blog post and a Questions and Answers post addressing some foundational questions about the advisory. Of the 19 vulnerabilities, only CVE-2021-22005 was assigned a severity of Critical.

#### Count of Severity



Source: Tenable, 2021

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d vulnerability in the vCenter Server. An unauthenticated attacker capable of ame network or directly from the internet could exploit a vulnerable vCenter Server iter Server analytics service. Successful exploitation would result in remote code og post, VMware notes that this vulnerability exists in vCenter Server "regardless of nich makes this exploitable by default in affected vCenter Server installations.

Inerabilities patched in today's release aren't critical, they are split evenly between rity flaws. The remaining vulnerabilities vary, from privilege escalation and denial of re and path traversal vulnerabilities. These flaws will likely be valuable to attackers,





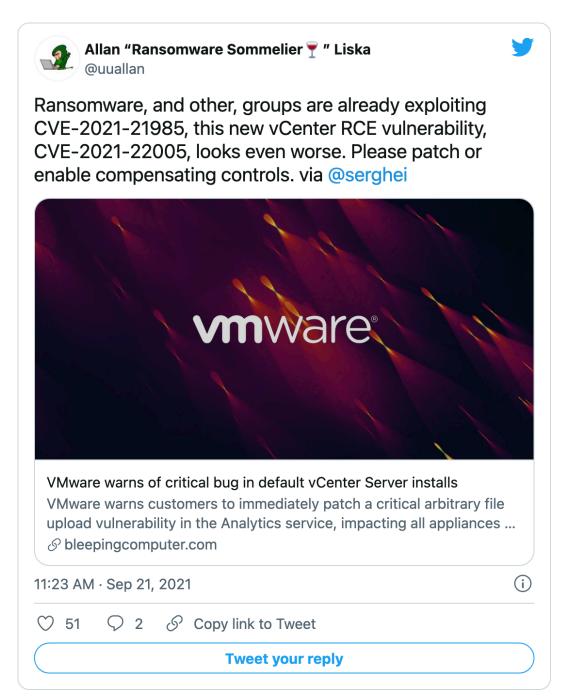






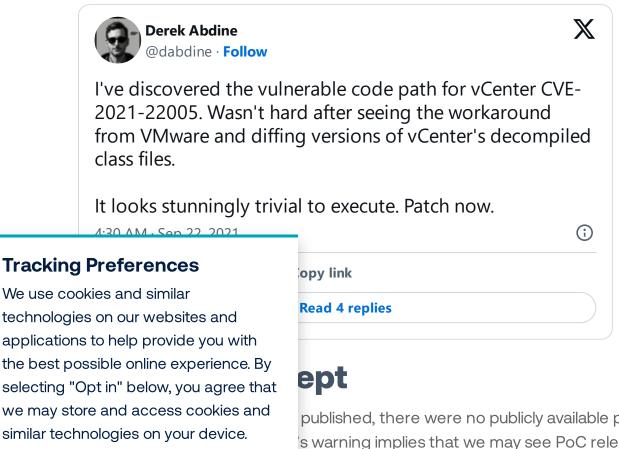


Security researcher Allan Liska tweeted that CVE-2021-21985 has already been leveraged as part of ransomware attacks and that CVE-2021-22005 "looks even worse."



#### Researchers stress urgency to patch as the vulnerability is "trivial to execute"

Derek Abdine, chief technology officer for Censys, tweeted that he discovered the vulnerable code path for this vulnerability and that it "looks stunningly trivial to execute." As a result, Abdine added that users should "Patch now."



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as the installation addressed.

Version of vCenter Server	Fixed Version	Installation
7.0	7.0 U2c	Any
6.7	6.7 U3o	Virtual Appliance

Please note that vCenter Server version 6.7 for Windows and version 6.5 for any installation are not affected by CVE-2021-22005.

Organizations are strongly encouraged to apply these patches as soon as possible.

If patching is not feasible at this time, VMware has provided workaround instructions for CVE-2021-22005. However, the workaround should be considered a temporary solution and should not be a replacement for upgrading to a fixed version.

# **Identifying affected systems**

A list of Tenable plugins to identify these vulnerabilities will appear here as they're released.

### Get more information

VMware Advisory VMSA-2021-0020

VMware VMSA-2021-0020 Blog Post: What You Need To Know

VMware VMSA-2021-0020: Questions & Answers

VMware Workaround Instructions for CVE-2021-22005

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#### **Satnam Narang**

Satnam joined Tenable in 2018. He has over 15 years experience in the industry (M86 Security and Symantec). He contributed to the Anti-Phishing Working Group, helped develop a Social Networking Guide for the National Cyber Security Alliance, uncovered a huge spam botnet on Twitter and was the first to report on spam bots on Tinder. He's appeared on NBC Nightly News, Entertainment Tonight, Bloomberg West, and the Why Oh Why podcast.

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outside of work: Satnam writes poetry and makes hip-hop music. He enjoys live pending time with his three nieces, football and basketball, Bollywood movies and d Grogu (Baby Yoda).

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By Satnam Narang, Rody Quinlan, and Scott Caveza

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