

# CSW Expert Discovers a Zero Day Vulnerability in Tenable's Nessus Scanner

Posted on Oct 18, 2022 | By Team CSW

CSW experts have discovered a Zero Day vulnerability with medium severity in Tenable's Nessus Professional scanner. This bug has been identified as 'Sensitive Information Disclosure' and has been given the CVE identifier of CVE-2022-28291 and has a severity score of 6.5 in CVSS V3. This vulnerability has been mapped to weakness enumeration CWE-522 (Insufficiently Protected Credentials).

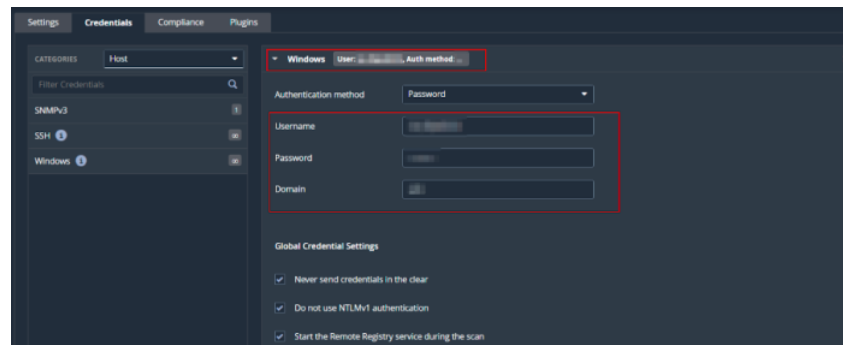
## How this vulnerability could be exploited

CVE-2022-28291 allows an attacker to access credentials stored in Nessus Scanners thus potentially compromising its customers' network of assets. An authenticated user with debug privileges can retrieve Nessus policy credentials from the 'nessusd' process in cleartext through process dumping and access sensitive information. This vulnerability affects all versions of Nessus Essentials and Professional.

## Proof of Concept

We tested the following vulnerability on Tenable's Nessus Professional 10.1.1 (#61) Windows.

1. Install Nessus Essentials or Professional, log on to the scanner, and create a Nessus policy with credentials using any Credential Type (in our case, it is Windows).

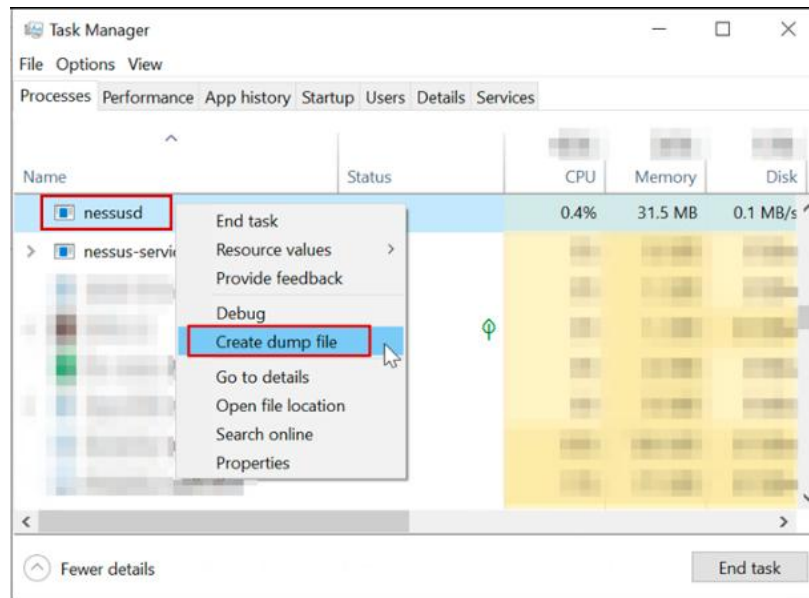


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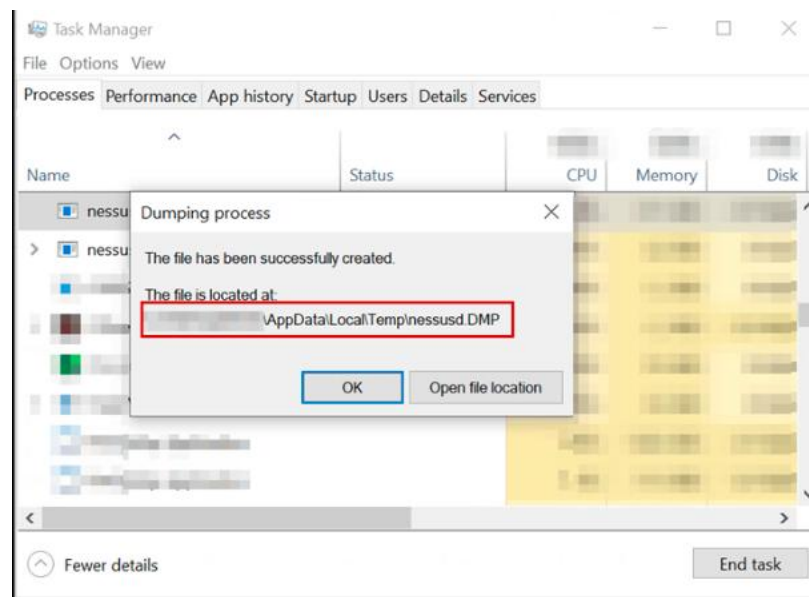
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- Figure 1:** Creating the Nessus Policy with the Windows Credential Type
2. Run a credentialed scan using the created Nessus policy.
  3. Create a process dump file of the process 'nessusd' from the Windows Task Manager.



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**Figure 2:** Creating the Process Dump of the "nessusd" Process

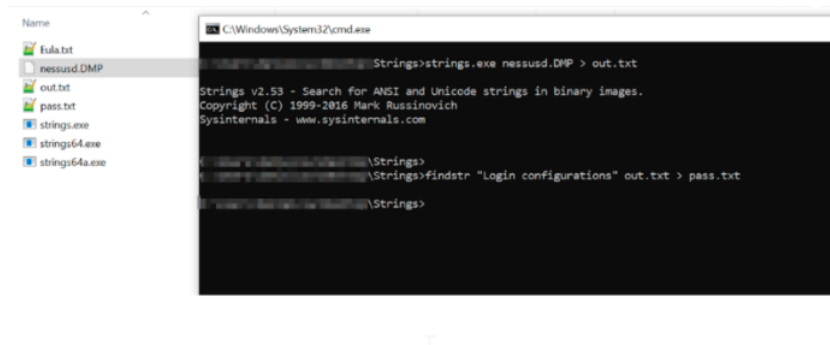


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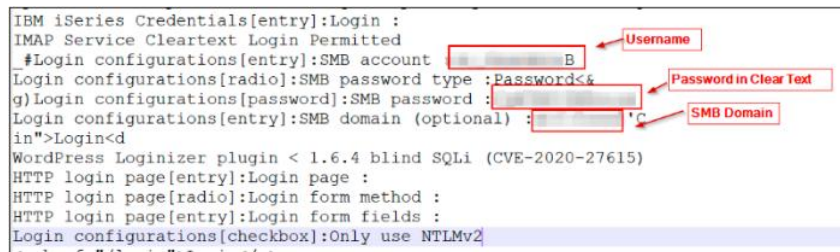
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**Figure 4:** Parsing the DMP File Using Strings and Extracting Credentials

5. The Nessus policy's Windows Domain Credentials have been retrieved in cleartext and viewed using a text editor application.



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**Figure 5:** The Nessus Policy-Stored Windows Credentials Retrieved in Cleartext

## Impact of the Vulnerability

- An attacker can retrieve stored credentials in Nessus Policies in cleartext from the "nessusd" process.
- An attacker can potentially compromise corresponding assets, internal domains, and networks with the retrieved credentials.
- With disclosed credentials, an attacker can potentially compromise its associated assets and networks of an organization leading to infiltration and breach.

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- **August 04, 2022:** Tenable has deemed the reported vulnerability as an acceptable risk.
- **August 31, 2022:** Tenable performed additional reviews and acknowledged there would be no fix for this issue.
- **September 01, 2022:** Tenable has agreed to raise a CVE for this submission.

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