

ManageEngine Applications Manager Authenticated SQLi

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Synopsis

 $Tenable\ Research\ discovered\ an\ authenticated\ SQL\ injection\ vulnerability\ in\ ManageEngine\ Applications\ Manager.$

A flaw exists in the doFilter method in the com.adventnet.appmanager.filter.UriCollector Java class. A low-privileged user can inject SQL statements via the resourceid parameter in an HTTP request sent to URL /showresource.do while using a mobile User-Agent (i.e., User-Agent:blackberry HTTP header):

```
if (isMobile.equalsIgnoreCase("true")) {
if (str1.startsWith("/showapplication.do") && queryString.contains("method=showApplication")) {
  hresp.sendRedirect(hresp.encodeRedirectURL("/mobile/DetailsView.do?method=showMGDetails&groupId=" + req.getParameter("haid"))); \\
  } else if (queryString.contains("method=showResourceForResourceID")) {
     ManagedApplication mo = new ManagedApplication();
    String qryToChkHAI = "Select * from AM_ManagedObject where TYPE='HAI' and RESOURCEID=" + req.getParameter("resourceid");
```

The attacker can perform the following actions to achieve SQLi:

- Using the Chrome browser, fetch the Applications Manager login page at https://<AppMgrHost>:8443/index.do
- Change the user agent of the Chrome browser to Android with steps: Customize and control Google Chrome -> More tools -> Developer tools -> Customize and control DevTools -> More the login page at https://cappMgrHost>:8443/index.do
- The login page should be in mobile view Login as a normal, non-administrator user
- Type in the following URL in the address bar:
- https://<AppMgrHost>:8443/showresource.do?method=showResourceForResourceID&resourceid=99999<sqli>
- For example, to change the admin password to \$attacker\$, type:
- https://<AppMgrHost>:8443/showresource.do?method=showResourceForResourceID&resourceid=99999%3bUPDATE%20AM_UserPasswordTable%20SET%20password %3d%24%241de45bbd0d85df3028bbcc4e1





Solution

Upgrade to ManageEngine Applications Manager build 15000 or later.

Additional References

 $https://www.manageengine.com/products/applications_manager/security-updates/security-updates-cve-2020-35765.html$

Disclosure Timeline

12/11/2020 - Vulnerability discovered

12/17/2020 - Report sent to ManageEngine via email

12/18/2020 - ManageEngine requests report via ZOHO bugbounty webform

12/18/2020 - Tenable resubmitted report via web form

12/21/2020 - Z0H0 acknowledges, says fix is ready and patches will release soon

01/13/2021 - fix is released, Tenable is not informed

02/04/2021 - Tenable notices released fix, releases advisory

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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-2020-35765

Tenable Advisory ID: TRA-2021-02 CVSSv2 Base / Temporal Score: 9.0 CVSSv2 Vector: AV:N/AC:L/Au:S/C:C/I:C/A:C CVSSv3 Base / Temporal Score: 8.8

CVSSv3 Vector: AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

Affected Products: ManageEngine Applications Manager <= build 14930

Risk Factor: High

Advisory Timeline

Otenable

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 ightarrow View all Products FEATURED SOLUTIONS Application Security **Building Management Systems** Cloud Security Posture Management Exposure Management Finance Healthcare IT/OT Ransomware State / Local / Education US Federal Vulnerability Management Zero Trust $\rightarrow \text{View all Solutions}$ 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



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