

Hash Suite - Windows password security audit tool. GUI, reports in PDF.

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Date: Tue, 12 Jan 2021 13:59:59 +0100
From: Marcus Meissner <meissner@...e.de>
To: OSS Security List <oss-security@...ts.openwall.com>
Subject: Security issues in hawk2 and crmsh

Hi folks,

We have received reports of 2 security issues for hawk and crmsh. These hawk and crmsh projects refer to distros® for their disclosure work.

These issues were reported to SUSE by Vincent Berg of Anvil Ventures.

1. Remote unauthenticated shell injection into the Hawk webserver

Hawk is a High Availability specific webconsole with its own webserver.

The Hawk webserver versions 2.2 up to now have a shell code injection issue via the "hawk_remember_me_id" cookie.

It can be triggered from 2 places, via /login (with login_from_cookie) and /logout interfaces.

The cookie value is passed unquoted and unfiltered from ruby to a shell command as commandline argument. (Using %[shellcommand] pattern.)

As hawk is running as "hauser" usually, this allows unauthenticated remote attackers to gain access to the "hauser" account.

Introduced by <https://github.com/ClusterLabs/hawk/commit/a939a099c6abdac383fbaede5e8655853222c887#diff-5349b200e8dc7ea82818115aa0aa1522>

We have received CVE-2020-35458 from Mitre for this issue.

Our team did a fix that does not use an subshell to invoke the command, patch is attached.

2. Local root privilege escalation via hawk and crmsh shell code injection

crmsh is a commandline shell utility to query or configure a HA cluster.

The Hawk webconsole contains a "setuid root" helper tool called "hawk_invoke", which allows hawk to call some root functionality in "crmsh".

hawk_invoke allows calls from "hauser" or "vagrant" users only.

hawk_invoke has a whitelist of "crmsh" commandline options, but does not do any filtering or blocking of stdin.

The "crm history" sub-command is whitelisted by hawk_invoke.

It opens its own sub-shell with various commands, one of them is "session create SESSION" This subcommand will create a directory "SESSION" by calling:

```
if utils.pipe_cmd_nosudo("mkdir -p %s" % session_dir) != 0:
```

which again does not filter the input.

This allows local privilege escalation from "hauser" or "vagrant" to root.

We have received CVE-2020-35459 from Mitre for this issue.

Currently we will fix only the unsafe mkdir and add ; to the blacklist filtering, a patch is attached.

Due to shortness of time we did not yet do a full (re)audit of crmsh and hawk, we are currently working on that.

The whole hawk_invoke setuid root setup also needs a full redesign.

Ciao, Marcus

View attachment "hawk2-CVE-2020-35458.patch" of type "text/x-patch" (1974 bytes)

View attachment "crmsh-CVE-2020-35459.patch" of type "text/x-patch" (3341 bytes)

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