

# Hawk: Operating HA cluster(s)

HA-SAP devel team

Dario Maiocchi <[dmaiocchi@suse.com](mailto:dmaiocchi@suse.com)>



# Index:

- 1) PAST: brief demo on hawk history
- 2) PRESENT: problem solved for the hawk maintainability problem, and security etc.
- 3) FUTURE: future of hawk. Short open discussion with follow-up actions



# What Is hawk?

released since 2010.

for more historical point of view visit:

[https://confluence.suse.com/display/haslesforsap/  
Cluster+Stack+Introduction+by+Kristoffer?  
preview=/251594913/251599322/hawk-  
api+server.pdf](https://confluence.suse.com/display/haslesforsap/Cluster+Stack+Introduction+by+Kristoffer?preview=/251594913/251599322/hawk-api+server.pdf)





# DEMO



# Current Maintenance updates

(status: not already released  
on all channels, on review)



# Highlights:

- \* CVEs fixes on puma  
rubygem (webserver  
used by hawk )

# Highlights:

- \* security: allow disabling of TLS 1.0 and 1.1 for web-server (jira: PM-220)

SLE12: lower version of puma 2.16

```
updated to version 4.3.5  
disabling TLSv1.0 and TLSv1.1 (jsc#SLE-6965)
```

- \* fix bsc#1172175, CVE-2020-11077
- \* fix bsc#1172176, CVE-2020-11076



# Highlights:

\* hawk is running on rails 6.1  
on opensuse TW Factory  
(bsc#1172840)

where on sle15 is rails 5.1



## 2<sup>nd</sup> MU for hawk

Status: code mostly implemented, SR need to be done

## Highlights:

- \* fix bug bsc#1163381

Hawk2 returns "Low level server error occurred"

## Highlights:

- \* allow user belong to haclient group to access history explorer ( #PM-51)

# Highlights: (contained in 1 MU)

- \* the maintenance process improvements

# Maintenance Process of hawk highlights: more **CI/Automation:**

- \* QA tests are now merged upstream  
And documented here:

[https://github.com/ClusterLabs/hawk/blob/master/e2e\\_test/README.md](https://github.com/ClusterLabs/hawk/blob/master/e2e_test/README.md)

And can be run manually executed

This are executed automatically and maintained by QA CI systems  
(thx to Rbranco, Alvaro and team)

# Maintenance Process of hawk highlights: faster **Release process**

## PROBLEM

Maintaince process for  
SLE12SP3 and  
SLE12sp4 was not  
simple or compact

## SOLUTION

\* SLE12sp3 and SLE12sp4 codebase are using only  
1 codebase branch instead of 2 confusing

\*SLE12SP3 and SLE12sp4 don't have any patches  
since code has been refactored and patches  
merged in code

# Maintenance Process of hawk highlights:

## Documentation on hawk maintainance

### PROBLEM

The release processs on  
HAWK was obscure.  
Lot of difference on  
SLE12 and SLE15.

### SOLUTION

Added new  
documentation on  
confluence regarding  
release process

\* added related jira  
cards for tech-debts

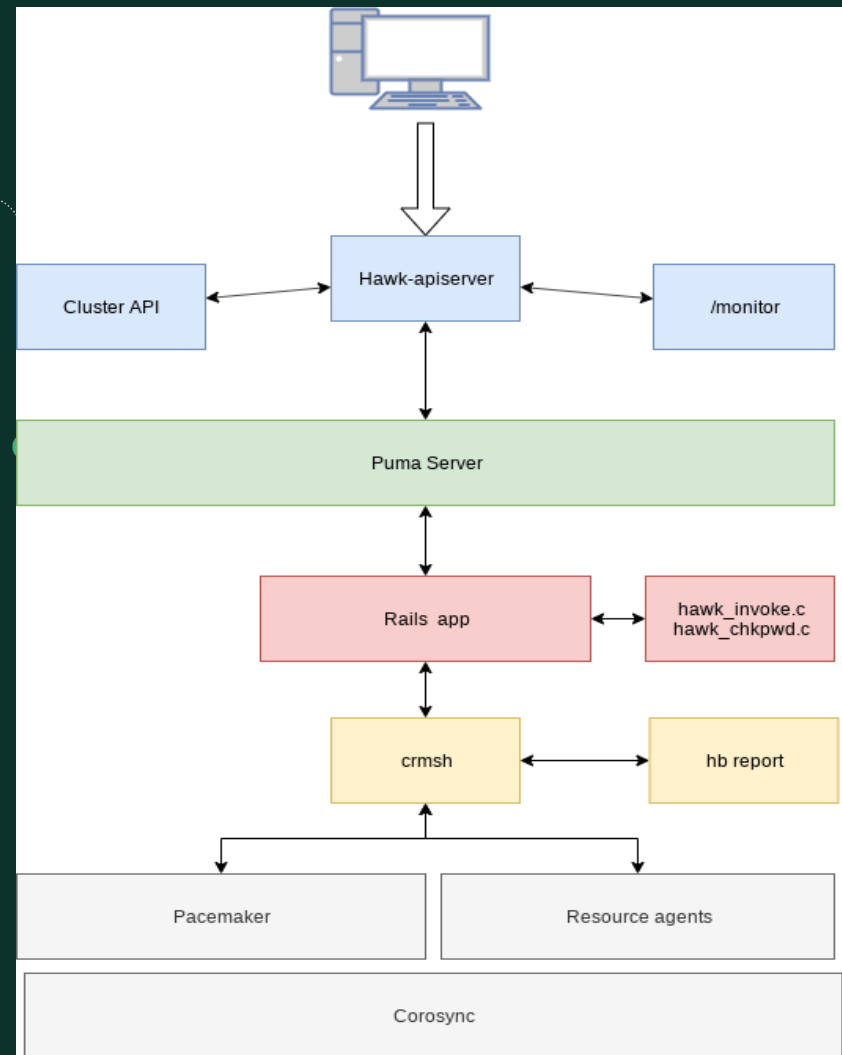
# Feature preview:

## disable tls 1.0/1.1



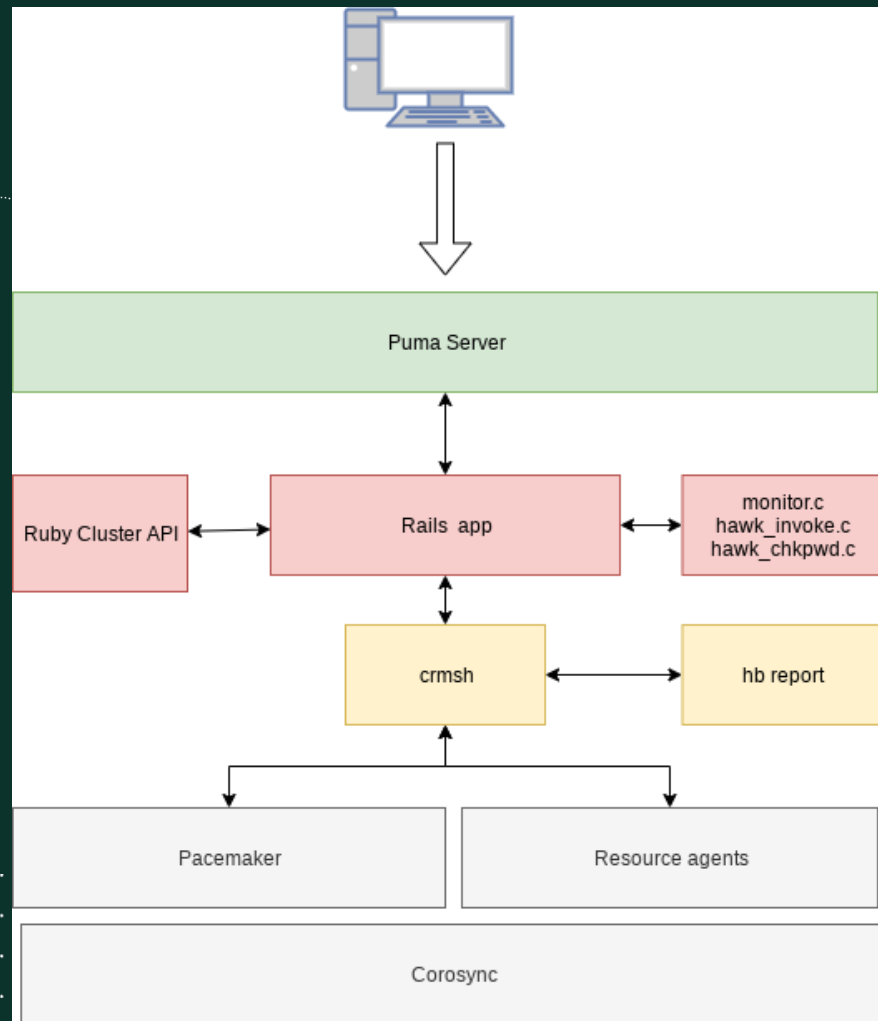
# SLE15 and higher:

Status:  
not implemented  
hawk-api-server handle  
this differently  
and customer req on  
SLE12 codebase first



# SLE12 and higher

## Maintenance update Status: under review



# SLE12: how to disable TLS 1.0 or TLS 1.1

Easy to configure manually  
(1line change)

# Hawk disable tls1.0 howto

---

1. edit file `/srv/www/hawk/config/puma.rb`

Change line from

```
ssl_bind @listen, @port, cert: @cert, key: @key, verify_mode: 'none'
```

to

```
ssl_bind @listen, @port, cert: @cert + "&no_tlsv1=true", key: @key, verify_mode: 'none'
```

2. `systemctl restart hawk && systemctl status hawk`

3. verify

```
openssl s_client -tls1 -connect localhost:7630
```

# Where can HAWK help the SAP future (? open question)

1) SAP Windows users  
transition to Linux (?)

2) ..

\* we need to think about the  
new shape in high-level  
manner

Thank you.

