

Check Raid-Controller state with Observium (LSI/Adaptec)

Both methods have been tested on Debian.

To monitor a **RAID-Controller** (not the RAID-State) with Observium the Observium-Agent can be used:

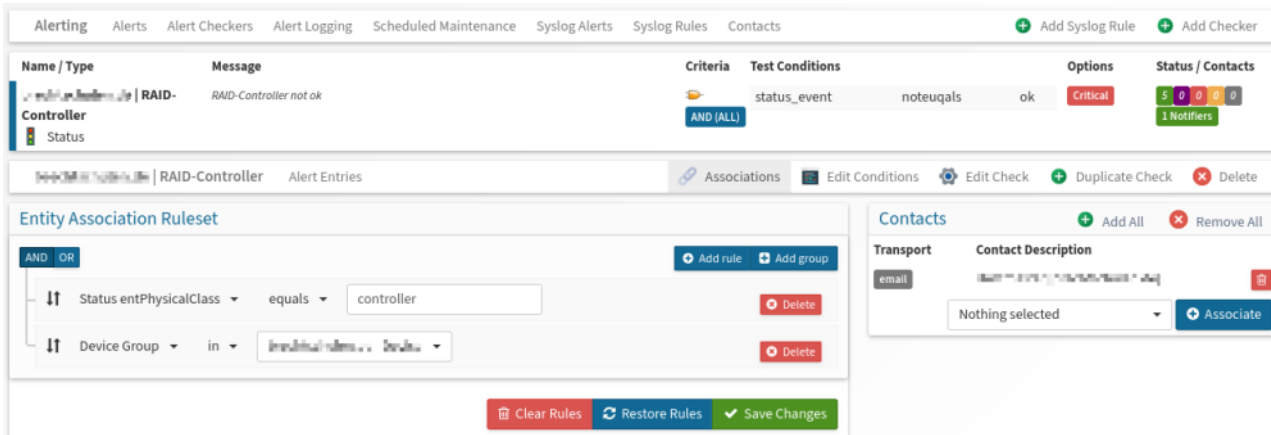
1. Firstly install Observium's Agent by using this script: [github.com/Zyxonix/attic - observium-agent-quick-install.sh](https://github.com/Zyxonix/attic/blob/master/observium-agent-quick-install.sh)
2. Then verify that the correct software for the RAID-Controller in use is installed. LSI: MegaCLI64 and Adaptec arconf is required. Verify a correct working of the software, otherwise the agent's module hdarray will not work.
3. Enable hdarray:

```
ln -s /usr/lib/observium_agent/scripts-availabe/hdarray /usr/lib/observium_agent/scripts-availabe/.
```

4. Restart the socket:

```
systemctl restart observium_agent.socket
```

5. Finally add an Alert-Checker for Status with the following settings: **Conditions:** status_event noteuqals ok and associate it with Status entPhysicalClass equals controller



Other Method to monitor the RAID-state (insecure/outdated)

To use this method the enterprise version of Observium is required!

Structure of this method: Observium uses the check_by_ssh plugin from Nagios to connect to the remote machine via SSH. A special user with limited access will then execute the check_raid-Plugin (also from Nagios) on the remote machine and will then send back the output to Observium. An alert checker can then check the RAID-state.

Setup:

1. Firstly install `monitoring-plugins-contrib` on the remote machine and `monitoring-plugins-basics` on Observium.
2. Then add a user called `observium` on the remote machine and add him to the group `ssh`:

```
sudo usermod -aG ssh observium
```

3. Edit the `/etc/sudoers` file and allow `observium` to execute `check_raid`, therefore add the following lines:

```
# Add permission for knecht (used by Observium) to execute check_raid
observium ALL= NOPASSWD: /usr/lib/nagios/plugins/check_raid
```

4. Now allow password-less authentication by copying the SSH-keys from the `observium` machine to the remote machine:

```
ssh-copy-id -i .ssh/id_rsa.pub observium@<remote-ip>
```

5. By default the `check_by_ssh` plugin is disabled for Observium. Enable it by adding the following lines to `/opt/observium/includes/definitions/entities/probes.inc.php`:

```
// Custom extension for remote checks
$probe = 'check_by_ssh';
$config['probes'][$probe]['enable'] = 1;
$config['probes'][$probe]['descr'] = 'Execute checks remotely via SSH';
// End of custom code
```

6. Finally restart `apache2`
7. Now add a probe in Observium's webinterface with the following values:

Config-Option	Value
Device	Remote-Device
Probe Type	<code>check_by_ssh</code>
Description	RAID <hostname>
Extra arguments	<code>-H <hostname> -l observium -C '/usr/bin/sudo /usr/lib/nagios/plugins/check_raid'</code>

Check `/opt/observium/includes/definitions/entities/probes.inc.php` **after each update to verify that `check_by_ssh` is still enabled!**

From:

<http://fixes.brecht-schule.hamburg/> - **Fixes | Public BIT Wiki**

Permanent link:

<http://fixes.brecht-schule.hamburg/monitoring/observium/check-raidcontroller-state>



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