

# 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

The screenshot displays the Observium web interface for configuring an alert checker. The main table shows an alert checker named 'RAID-Controller' with the message 'RAID-Controller not ok'. The criteria are set to 'status\_event' with the test condition 'noteuqals' and the option 'ok'. The status is 'Critical' and it has 1 notifier. Below the table, the 'Entity Association Ruleset' is configured with two rules: 'Status entPhysicalClass equals controller' and 'Device Group in [unavailable] Devices'. The 'Contacts' section shows the 'email' contact selected for association.

## Other Method to monitor the RAID-state (insecure/outdated)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 &lt;hostname&gt; -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!**

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