

Check HP RAID Status

 CHECKCENTRAL

 BINARYFORTRESS

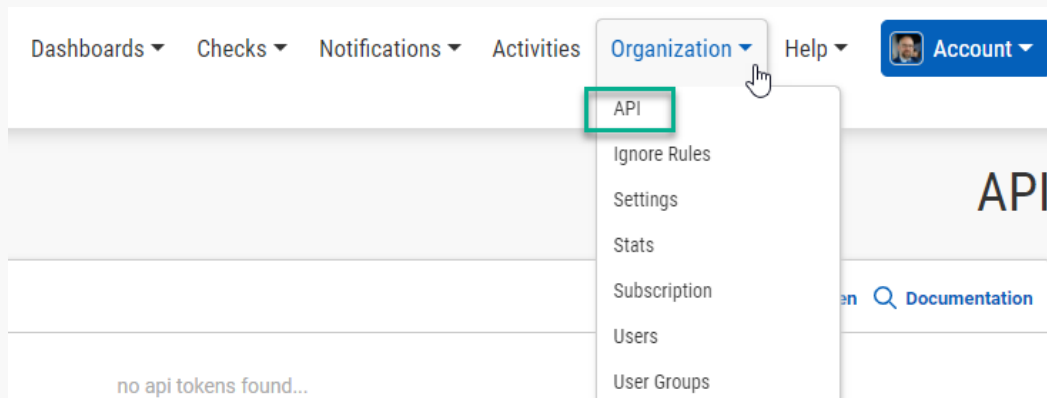
Check HP RAID Status

CheckCentral can parse anything you send to it, which means you can monitor more than just backups! With this script, you can send the status of your HP RAID volumes to CheckCentral daily and get notified if anything is amiss.

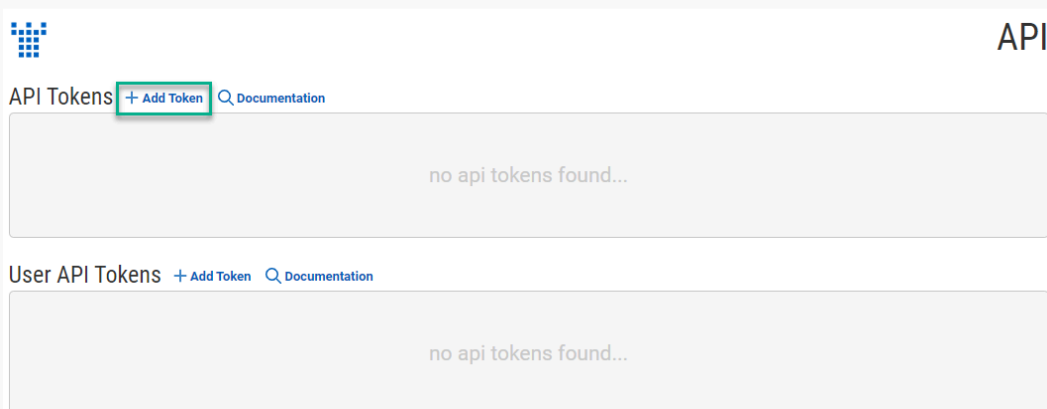
This script requires HP Smart Storage Administrator to be installed on the server as it uses the ssacli.exe CLI tool.

Setting Up the API Token and the Script

1. Download the script: [hp_ssacli_raid_check.ps1](#)
2. In CheckCentral, go to Organization > API.



3. Click "Add Token."



4. Give the token a name, e.g. `SERVER01 HP RAID Script`.

5. Select "createActivities Only" in the Access Level drop-down and click Save.

6. Copy the token, and paste it in the \$apiToken variable on line 11 of the script.

API Token	Name	Created	Created By
CreateActivities Only Access Tokens			
f1cab8a074db453c9ed04fa80d62c0b8	SERVER01 HP RAID Script	Jun 6, 2022 8:52 AM	System

```

7 #####
8 # Script Settings #
9 #####
10
11 # CheckCentral API key
12 $apiToken = "f1cab8a074db453c9ed04fa80d62c0b8"
13
14 # Set the RAID controller ID to check here. If the system only has one RAID controller, it should be ID 0.
15 $raidControllerID = 0
16
17
    
```

7. On line 14 of the script, set the RAID Controller ID. If there's only one in the machine, this will most likely be 0.

8. ssaccli.exe can be located in different directories depending on the version, so update the directory path on line 16 if needed.

9. Run the script. You'll now see an unmatched activity in CheckCentral.

Configure the Check

Create and Identify

10. In CheckCentral, go to Activities.

11. Select "Unmatched" from the Matched dropdown selector and then click the "Filter" button.

The results will show below.

Filter

Group Name: All

Check Name: All

Activity Status: All

Matched: **Unmatched**

Activity Limit: 25

Activity Source: Email User Set Overdue CheckCentral API

Date Range: 2021-04-30 to 2022-06-06

Today Prev Day Next Day Last 7 Days Last 30 Days

This Month Last Month This Year Last Year All Time

Filter Reset Save PDF Save CSV Reprocess Delete Unmatched

Activities

<input type="checkbox"/> Date	Title	Matched Check
<input type="checkbox"/> May 17, 2022 3:48 PM	HP RAID Status: SERVER01	Unmatched [create check] [add ignore rule]
<input type="checkbox"/> May 12, 2022 2:57 PM	[Success] ACME Accounting Backup (1 machines)	Unmatched [create check] [add ignore rule]

12. Click the "Create Check" link next to the relevant activity.

Filter

Group Name: All

Check Name: All

Activity Status: All

Matched: Unmatched

Activity Limit: 25

Activity Source: Email User Set Overdue CheckCentral API

Date Range: 2021-04-30 to 2022-06-06

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Activities

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<input type="checkbox"/> May 12, 2022 2:57 PM	[Success] ACME Accounting Backup (1 machines)	Unmatched [create check] [add ignore rule]

13. Leave the Name as is.

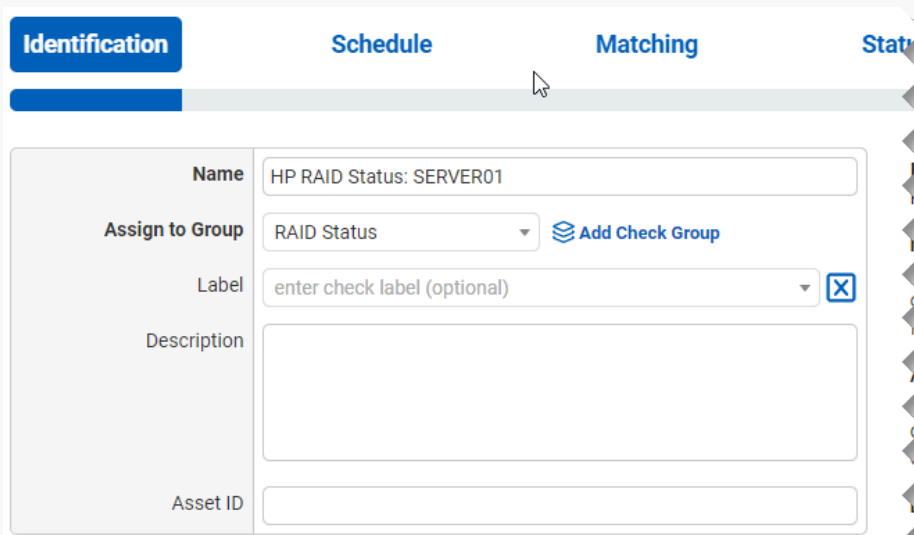
14. Select an existing Check Group or create a new one by clicking "Add Check Group".

15. Select an existing Label or create a new one by typing the name in the text field of the dropdown (optional).
16. Add a description (optional).

The Asset ID is used exclusively with certain ticketing systems and is not required for Checks. Asset ID details and ticketing systems are more fully covered by other documents (e.g. [Halo Integration \(asset ID\)](#).)

17. Leave the Asset ID blank.

Your Check so far will look something like this:



The screenshot shows the 'Identification' tab of the CheckCentral interface. The form contains the following fields:

- Name:** HP RAID Status: SERVER01
- Assign to Group:** RAID Status (dropdown menu) with an 'Add Check Group' button.
- Label:** enter check label (optional) (dropdown menu) with a close button (X).
- Description:** A large empty text area.
- Asset ID:** An empty text field.

Navigate to the next step in CheckCentral by clicking the "Next" button or the tab name.

Schedule

18. Leave "Scheduled" selected as we will be running the script regularly.
19. Assuming you'll run the script daily, leave the Expected Interval on "1" "Day(s)." If you plan to run the script on another interval, adjust accordingly.

The initial expectation time is set by the first email message that is received and processed by its Check. (For example, if a notification email arrives at noon and its Check is set for every half hour, it will expect another notification email at 12:30.)

20. Leave the Set as Overdue setting at "After 30 Minutes." If the script notification email is not received after this amount of time has been exceeded, the Check will be marked as a failure.

Leave Custom Schedule de-selected.

The screenshot shows the 'Schedule' tab of a configuration interface. It features a horizontal navigation bar with four tabs: 'Identification', 'Schedule' (which is active and highlighted in blue), 'Matching', and 'Status'. Below the navigation bar, there is a form with the following fields:

- Frequency:** Two radio buttons are present. 'Unscheduled' is unselected, and 'Scheduled' is selected.
- Expected Interval:** A text input field contains the number '1', followed by a dropdown menu currently set to 'Day(s)'.
- Set as Overdue:** A dropdown menu is set to 'After 30 Minutes'.
- Use Custom Schedule:** An unchecked checkbox.

Matching

The Matching step is what matches a notification email to its specific Check. It's also where you'll set the notification's CheckCentral destination email. For email-based notifications, this email can be used for quick matching. Because this is an API-created activity, other Matching Rules are needed.

A Matching Rule is created by default with the Subject of the message crafted by the earlier test run of the script. The "Subject" "Is Exactly" dropdowns and the text `HP RAID Status:` are displayed, appended with the Computer Name of the computer running the script.

21. Leave the "HP RAID Status" Matching Rule as is. You can delete the other email address Matching Rule by clicking the trashcan icon, but it is not required.
22. Leave Condense Whitespace and Combine Attachments enabled and the matching modifier set to "All."

Identification Schedule **Matching** Status

Use email address specific to this check:

Your source application should be configured to send an email to the following email address:

genericcompanyabc@mycheckcentral.cc

Additional Criteria [+ Add Matching Rule](#)

Condense Whitespace

Combine Attachments

Message must match All of the following conditions:

To Is Exactly genericcompanyabc@mycheckcentral.cc

Subject Is Exactly HP RAID Status: SERVER01

The email address will appear different based on your organization name and the name you specified for your check.

Status

The previous Matching step identifies the incoming message to the Check. The Status step looks for indicators of what type of notification you're receiving (e.g. The job was successfully run, it failed, or there were some issues.)

23. Leave the Default Status on "Failure."

The "Success Criteria" section is where you'll set the criteria that will mark an activity as successful.

24. Click [+ Add Success Rule](#).

The output from omreport will show `" : OK"#{#}` (where # is the number of volumes reported).

25. Set the rule to "Body Text" "Complex Match" and then type `" : OK"#{#}` (with quotes included) in the empty text field, replacing the `#` with the number of volumes. For RAID controllers with only one volume, use `" : OK"` instead (without `{#}`).

26. The "Warning Criteria" section is where you'll set the criteria that will mark an activity with a warning. Because there is no warning criteria for this Check, we do not add a rule.

27. Leave the Condense Whitespace and Combine Attachments checkboxes enabled.

Identification Schedule Matching **Status**

Default Status Failure

Success Criteria

Rules + Add Success Rule

- Condense Whitespace
- Combine Attachments

Message must match **All** of the following conditions:

Body Text Complex Match "": OK"{3}

Warning Criteria

Rules + Add Warning Rule

- Condense Whitespace
- Combine Attachments

Message must match **All** of the following conditions:
No Conditions Set

Status
Configure
Choose
must me

Default
If no statu
set to th

Condens
Ignore e
useful for
HTML.

Combine
Treat all
purposes

Rules
By defaul
This can
incoming

Notifications

Notifications are simply how you want to be informed of Check Failures, Warnings, and some other Status changes.

Email, push, chat and other software can be integrated as well as ticketing systems, allowing for automatic ticket creation and management.

Further configuration is required for each to function and is done via the Notifications tab in the main menu. They can be configured before or after Check creation.

For more understanding of Notification setup, see the [CheckCentral Beginner's Guide \(Notifications\)](#).

28. Select the desired means of Notification. If in doubt of the selections here, leave the defaults.

Save

29. To confirm the activity now matches the check, click the Test button.

Identification Schedule **Matching** Status Notifications **Save**

Existing Messages

Process unmatched messages after saving

Process matched messages after saving

Process unmatched messages after saving
Any unmatched messages for your organization will be rematched against your checks, including any updated conditions for this check.

Process matched messages after saving
Recent messages already matched to this check will have their status reprocessed using the updated status conditions. CheckCentral will reprocess up to 100 recent activities bas... +

Switch to Advanced Mode Cancel Back View JSON **Test** Save Check

Under "Recent Messages Now Matched" your previously unmatched activity will be displayed with a green Status indicator (assuming the full number of volumes returned an "OK").

Test 'HP RAID Status: SERVER01'

Recent Messages Matching Multiple Checks

no messages...

Recent Messages Now Matched

Date	Title	Status
15m ago	HP RAID Status: SERVER01	OK

30. Close the Test window.

31. Click the "Save Check" button.

For more detail on Check creation and best practices, see our [Check Creation Guide](#).

For other guides and support contact information, see [CheckCentral Support](#)

Create a Scheduled Task

Now that the script is configured and the check is created, you'll want to create a Scheduled Task on the machine to run the script daily. The Scheduled Task should run the following command:

```
powershell.exe -ExecutionPolicy Bypass -File "path-to-the-script".
```

About CheckCentral

CheckCentral Monitoring consolidates and simplifies backup, system, and software email updates into a clean, graphical dashboard, bringing peace of mind to IT administrators of SMBs, Enterprises, and MSPs.

To learn more about CheckCentral, visit: <https://www.checkcentral.cc>

About Binary Fortress Software

Binary Fortress has spent 19 years in pursuit of one goal: create software to make life easier. Our software ranges from display management and system enhancement utilities to monitoring tools and digital signage. IT administrators, professional gamers, coffee-shop owners, and MSPs all rely on Binary Fortress to make their days better, and their lives easier.

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