

Check HP RAID Status



CHECKCENTRAL



BINARYFORTRESS

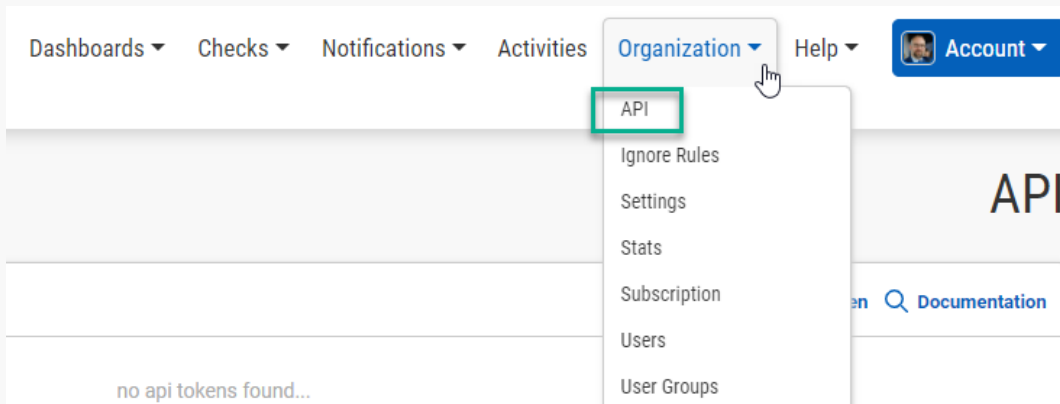
Check HP RAID Status

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.

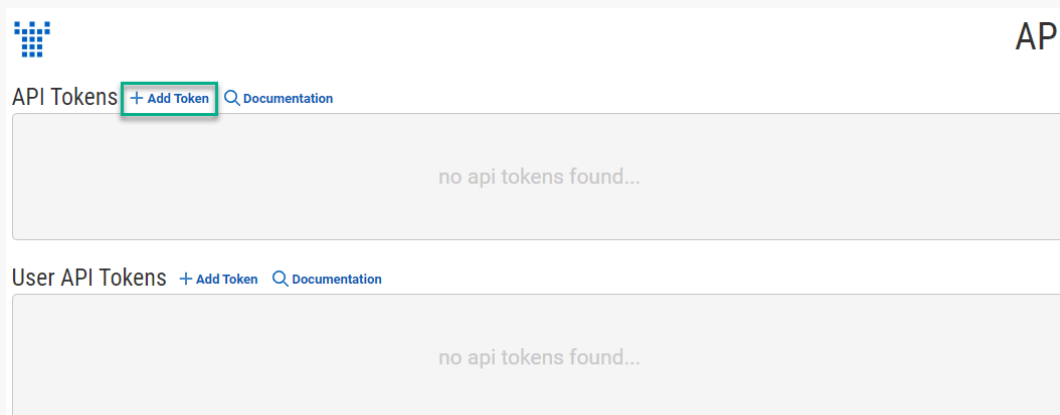
This script requires HP Smart Storage Administrator to be installed on the server as it uses the ssaccli.exe CLI tool.

Setting Up the API Token and the Script

1. Download the script: [hp_ssaccli_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`.

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

Add API Token

Name: SERVER01 HP RAID Script

Access Level: CreateActivities Only

The API token will have access to the following endpoints:

- CreateActivities Only
- createActivities

Save Close

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

API Tokens + Add Token Documentation

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

```

- 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.*
- ssacli.exe can be located in different directories depending on the version, so update the directory path on line 16 if needed.
- Run the script. You'll now see an unmatched activity in CheckCentral.

Configure the Check

Create and Identify

- In CheckCentral, go to Activities.



Dashboards ▾ Checks ▾ Notifications ▾ **Activities** Organization ▾ Help ▾

- 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]

- 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

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Today

Prev Day

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Last 7 Days

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This Month

Last Month

This Year

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Delete Unmatched

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<input type="checkbox"/> Date	Title	Matched Check
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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]

- Leave the Name as is.

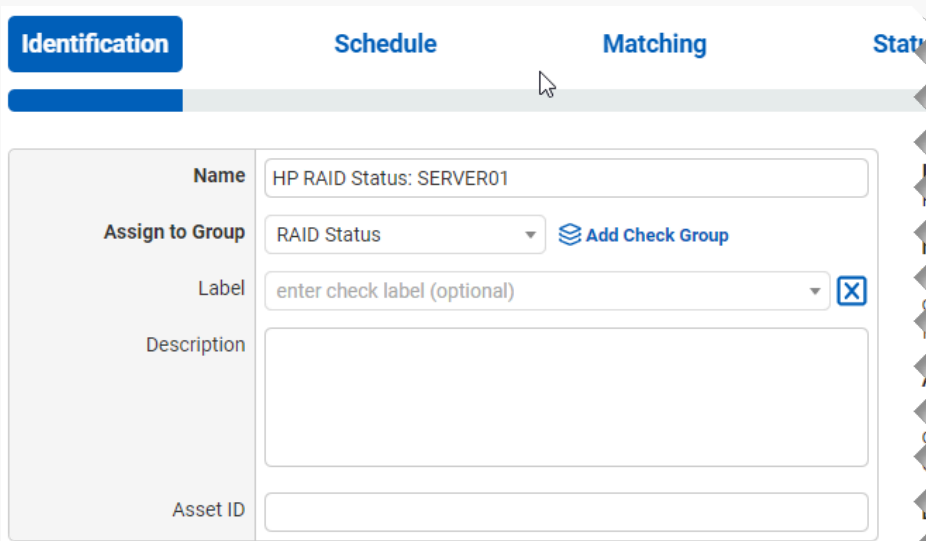
- Select an existing Check Group or create a new one by clicking " Add Check Group".

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 text area for entering a description.
- Asset ID:** A text field for entering an asset ID.

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

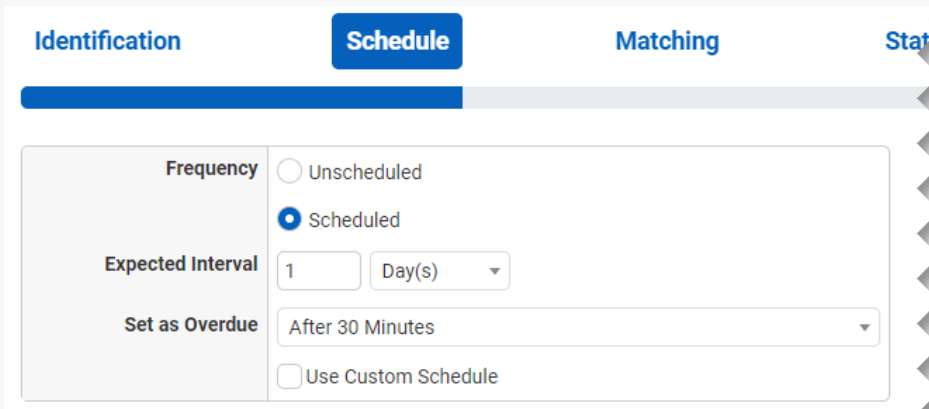
Schedule

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 progress bar at the top with four segments: 'Identification' (blue), 'Schedule' (white), 'Matching' (light blue), and 'Status' (light blue). Below the progress bar, the 'Schedule' section is active. It contains the following controls:

- Frequency:** Two radio buttons, 'Unscheduled' and 'Scheduled'. 'Scheduled' is selected.
- Expected Interval:** A text input field containing '1' and a dropdown menu set to 'Day(s)'.
- Set as Overdue:** A dropdown menu 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."

The screenshot shows the 'Matching' tab of the CheckCentral configuration interface. At the top are four tabs: 'Identification', 'Schedule', 'Matching' (which is active and highlighted in blue), and 'Status'. Below the tabs is a blue progress bar. The main content area has a checkbox labeled 'Use email address specific to this check:' which is unchecked. Below this is a text field containing the email address 'genericcompanyabc@mycheckcentral.cc'. Underneath the email field is a section titled 'Additional Criteria' with a '+ Add Matching Rule' link. This section contains two checked checkboxes: 'Condense Whitespace' and 'Combine Attachments'. Below these is a text label 'Message must match' followed by a dropdown menu set to 'All' and the text 'of the following conditions:'. There are two rows of matching criteria, each with a dropdown for the field, a dropdown for the operator, and a text field for the value, followed by a trash icon. The first row has 'To' as the field, 'Is Exactly' as the operator, and 'genericcompanyabc@mycheckcentral.cc' as the value. The second row has 'Subject' as the field, 'Is Exactly' as the operator, and 'HP RAID Status: SERVER01' as the value.

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.

IdentificationScheduleMatchingStatus

Default StatusFailure

Success Criteria

RulesAdd Success Rule

Condense Whitespace

Combine Attachments

Message must matchAll of the following conditions:

Body TextComplex Match": OK"{3}

Warning Criteria

RulesAdd Warning Rule

Condense Whitespace

Combine Attachments

Message must matchAll of the following conditions:

No Conditions Set

Status

Configure Choose must me

Default SIf no statu set to th

CondensIgnore an useful for HTML.

CombineTreat all purposes

RulesBy defaul This can incoming

Notifications

Check HP RAID Status

Identification
Schedule
Matching
Status
Notifications

Notifications

Failure and Warning Notifications

☒ Email
☐ SMS
☐ Push
☐ Pushbullet
☐ Pushover

Notification Channels

Asana
Bugzilla
Custom Webhook
Discord (webhook)

External Emails
GitHub
GitLab
Google Chat (webhook)

IFTTT (webhook)
Jira Software (webhook)
Mattermost (webhook)

Microsoft Teams (webhook)
Microsoft To Do List
Redmine

Rocket.Chat (webhook)
Slack
Slack (webhook)

External Ticketing Systems

Atera
Autotask
Bugzilla
ConnectWise Manage
Freshdesk

GitHub
GitLab
HaloPSA
Jira Service Management

Jira Software
Kaseya BMS
Microsoft To Do List
Redmine

SyncroMSP
Zendesk

Options

☒ Notify authorized users when this check is restored to success from failure or warning
☒ Send notifications for messages processed outside of the Arrival Time Window

Notify on Repeated Alerts

Notify on every failure or warning

Notification Grace Period

No Grace Period

Notifications

Configure how failures, warnings, and status changes are communicated for this check.

Failure and Warning Notifications

Users will be sent Failure and Warning notifications based on their personal notification settings.

Notification Channels (optional)

Configure which organization notifications CheckCentral will send when updating this check's status. Add notification channels on your [organization page](#).

External Ticketing Systems (optional)

Configure which external ticketing systems CheckCentral will update based on this check's status. Configure external ticketing systems on your [external systems page](#).

Notify authorized users when this check is restored to success from failure or warning

Users will be notified based on this check's notifications and their personal notification settings. In order to receive notifications, users must have the appropriate notification permissions.

Send notifications for messages processed outside of the Arrival Time Window

Uncheck to have CheckCentral only send notifications during the configured Arrival Time Window. The window can be configured on the [advanced schedule](#) page. If this option is enabled, CheckCentral will send notifications outside of the window.

Notify on Repeated Alerts

Configure notification behaviour for consecutive failures or warnings. Set to failure or warning multiple times without success. If this option is enabled, CheckCentral will use this grace period.

Notification Grace Period

If there is a grace period set, CheckCentral will not send notifications for each failure activity received. If the activity is successful before an activity's grace period expires, the activity will be marked as successful.

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.

Check HP RAID Status

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 18 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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Binary Fortress Software
1000 Innovation Drive, Suite 500
Kanata, Ontario, Canada
K2K3E7
<https://www.binaryfortress.com>