Azure VM Backup & Site Recovery

CHECKCENTRAL

BINARYFORTRESS

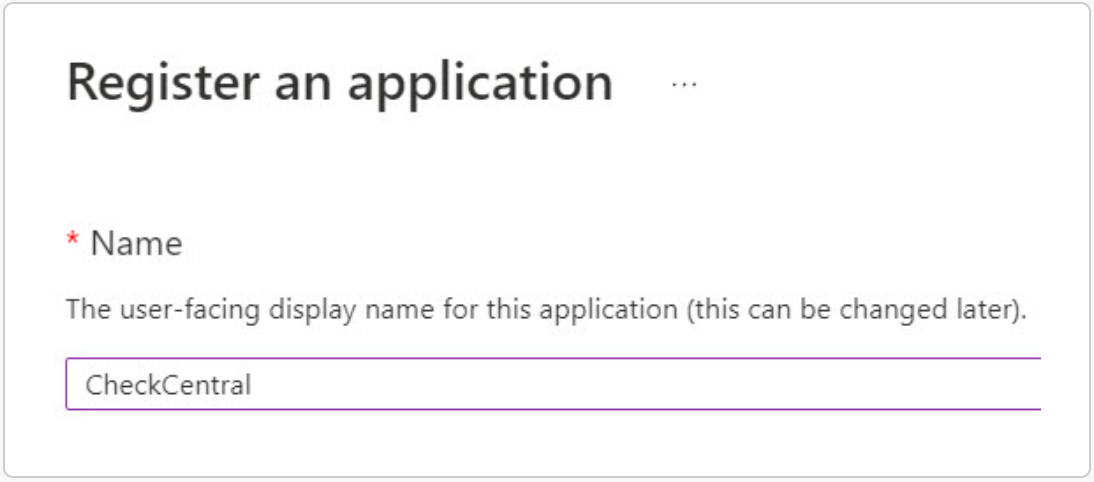
Azure VM Backup and Replication

As of March 2025, there's now a built-in Direct Integration for Azure. It pulls the same information as this script, is automated, and allows for filtering on things like Resource Group, Subscription, and more. To get started with the Direct Integration, navigate to your Dashboard, then click Services > Direct Integrations on the top menu. Click the Microsoft Azure integration in the list, and the configuration wizard will open. Written instructions and a video link for the integration are located on the right side of the wizard.

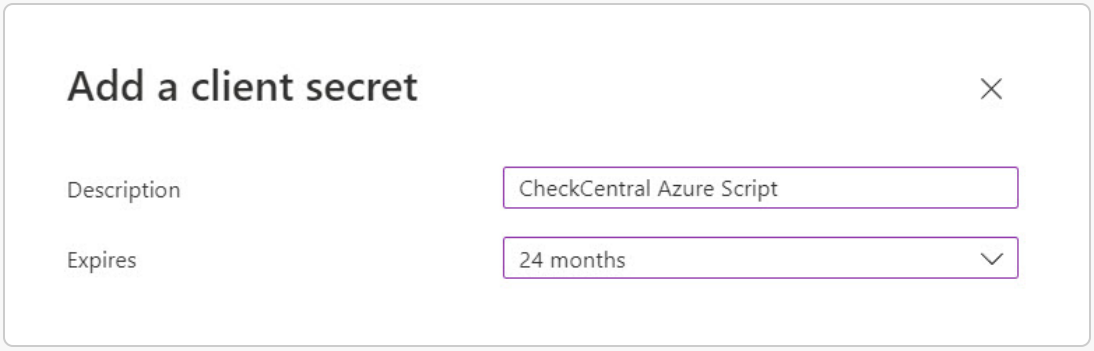
Azure doesn't send email notifications for backups and replication jobs. This script can be used to pull all jobs from the Recovery Services Vaults in your Azure Subscription and send their status to CheckCentral. It's recommended to run this script daily.

Configuring the Azure App Registration

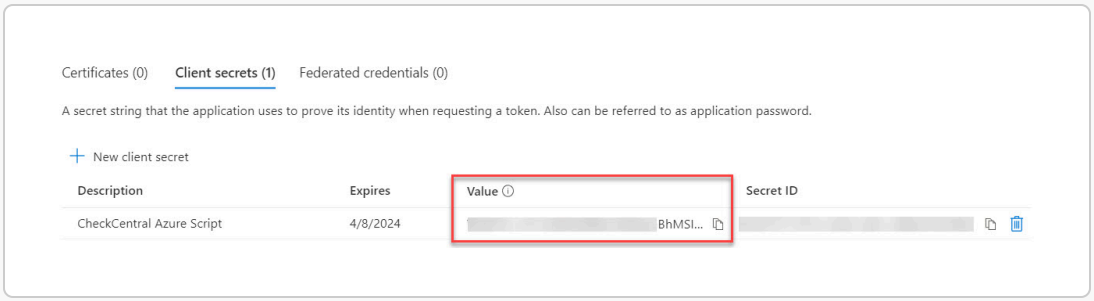
- In your Azure Portal, navigate to your Azure AD page.
- In the left pane, click "App registrations."
- Click "New registration."
- Give it a name (e.g. CheckCentral), then click the Register button. After it finishes creating, you'll be on the page for the App Registration.



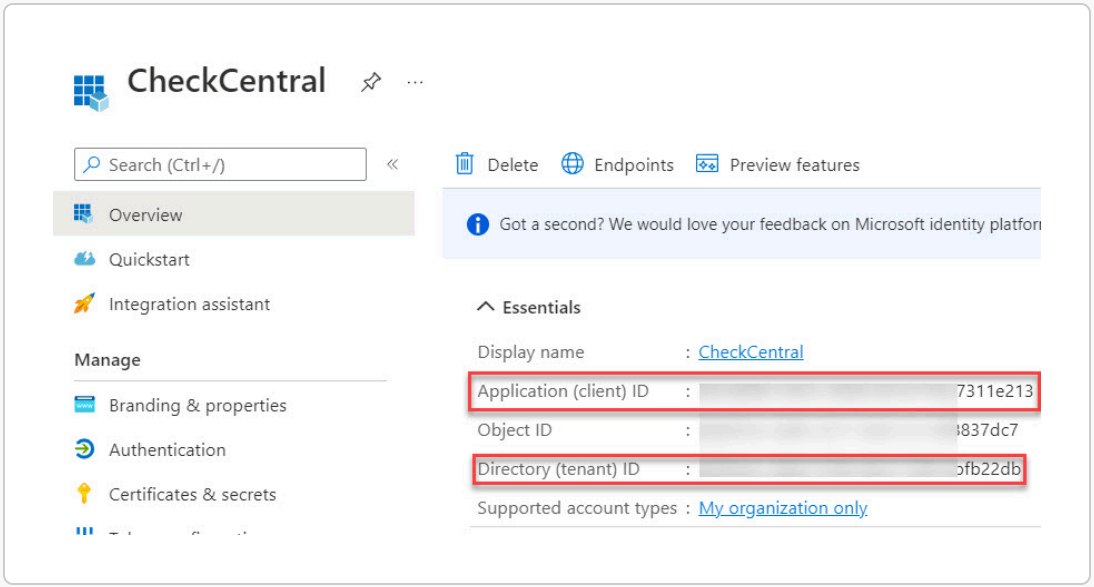
- In the left pane, click "Certificates & secrets."
- Click "New client secret."
- Enter a description (e.g. CheckCentral Azure Script) and set the expiry time. Note that the max expiry time is 24 months, so you'll need to re-generate the token every two years (or less if you choose a shorter expiry time). Click the Add button.


Add a client secret
Description
CheckCentral Azure Script
Expires
24 months

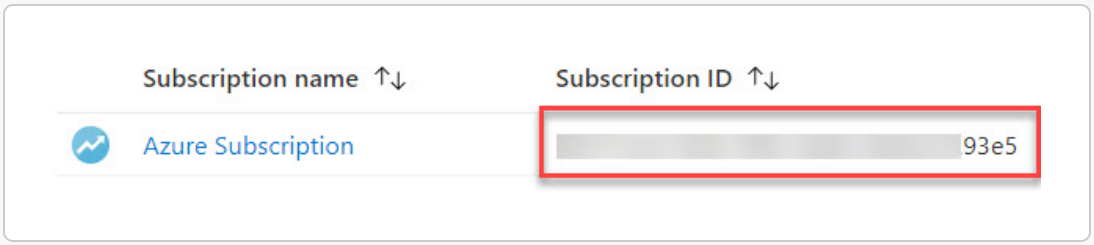
- Click the Client secrets tab and copy the string from the "Value" column (not the Secret ID). After navigating away from this page it won't be shown again, so make sure you've got it saved somewhere for the script setup section of this guide.



- In the left pane, click "Overview."
- Copy the "Application (client) ID" and "Directory (tenant) ID" values and save them somewhere for the script setup section of this guide.

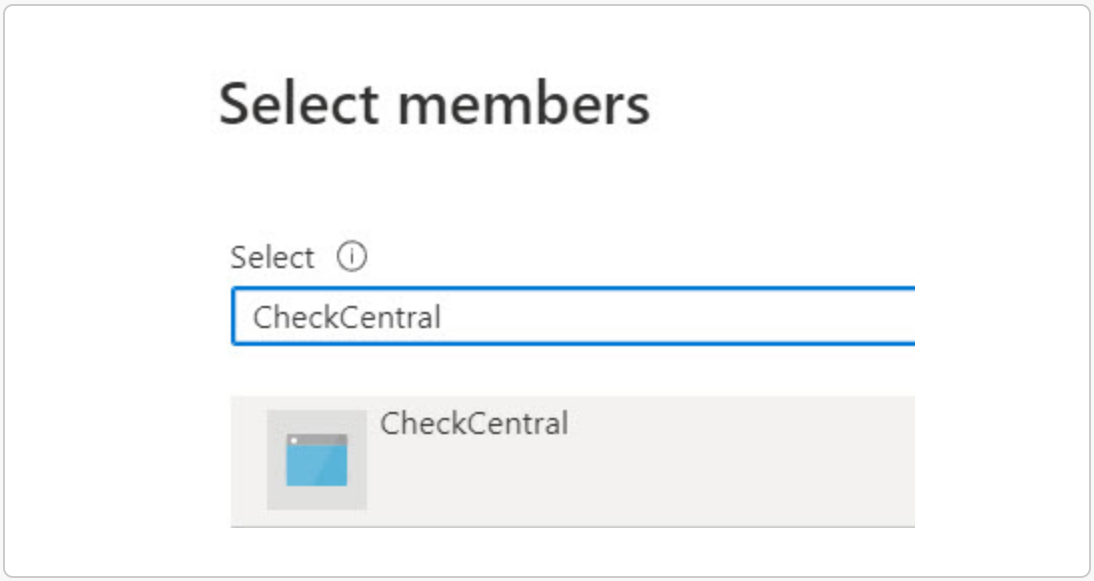


- On the top-left of the portal, click Home, then click Subscriptions.
- Copy the "Subscription ID" and save it somewhere for the script setup section of this guide.



- Click the Subscription name, then in the left-pane, click "Access control (IAM)."

- Click the "Role assignments" tab.
- Click "Add" and select "Add role assignment."
- Click the "Reader" role in the list to select it, then click the "Members" tab.
- Click "Select members," type "CheckCentral," and select the App Registration you created earlier in the guide. Click "Select."



- Click "Review + assign." Confirm that the Role is "Reader" and that you've selected the correct App Registration.



- Click "Review + assign" again to save the Role Assignment.
- The Azure configuration is now complete. In the next section, you'll configure your CheckCentral API token.

Configuring the CheckCentral API Token

- On your CheckCentral dashboard, go to Organization > API.
- Click "Add Token" next to the "API Tokens" header (not "User API Tokens").
- Give the token a name, e.g. "Acme Widgets Azure Backup and Replication Script."
- Select "CreateActivities Only" in the Access Level drop-down and click Save.
- Copy the token and save it somewhere for the script setup section of this guide.

> For multiple instances, consider using unique API keys. If at a later date one needs to be revoked, it will then only impact a single instance.

Configuring the Script

Installation

- Paste your CheckCentral API token into the $ccOauthToken variable.
- Paste your Azure Subscription ID into the $subscriptionId variable.
- Paste your Azure Directory (tenant) ID into the $tenantId variable.
- Paste your Azure CheckCentral App Registration's "Application (client) ID" into the $applicationId variable.
- Paste your Azure CheckCentral App Registration's "Client secret" into the $secret variable.
- Save the script and run it to confirm that the activities get created in CheckCentral. The activities will be unmatched and can be found either via the Activities menu or clicking the unmatched messages link in your dashboard's Current Issues section.

Scheduling

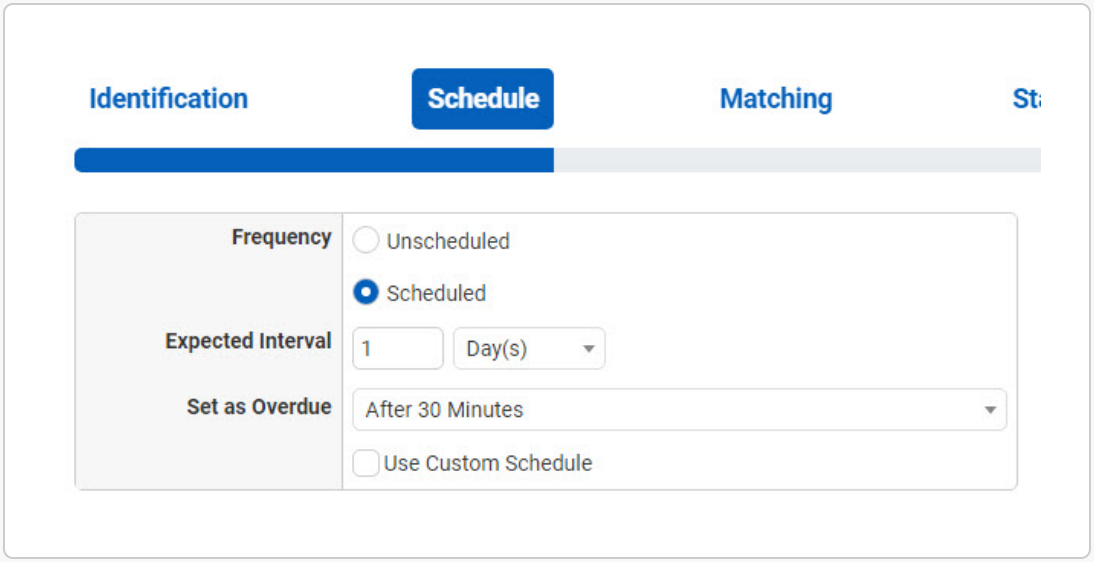
- Configure this script to run on a machine somewhere as a regularly scheduled task. (Daily in this example)

Setting Up the Check Schedule

- View your unmatched messages in CheckCentral, either via the Activities menu or clicking the unmatched messages link in your dashboard's Current Issues section.
- Click the "[create check]" link next to the activity. This will take you to the check creation area.
- Leave the name as the default, and choose a Check Group from the drop-down, then click Next to advance to the Schedule tab.
- For this guide, we'll assume that you're going to run the script every day. In order for CheckCentral to notify you when the Check is overdue (e.g. if the script didn't run as scheduled), you'll want to configure the "Expected Interval" setting to "1 Day."
- Click Next to advance to the Matching tab.

Notice that there's nowhere to assign the time of day that the email is expected. This is because CheckCentral will automatically adjust the expected time based on when the last email arrived. If your script runs at 9am and finishes at 9:01am today, then the next email will be expected at 9:01am tomorrow.

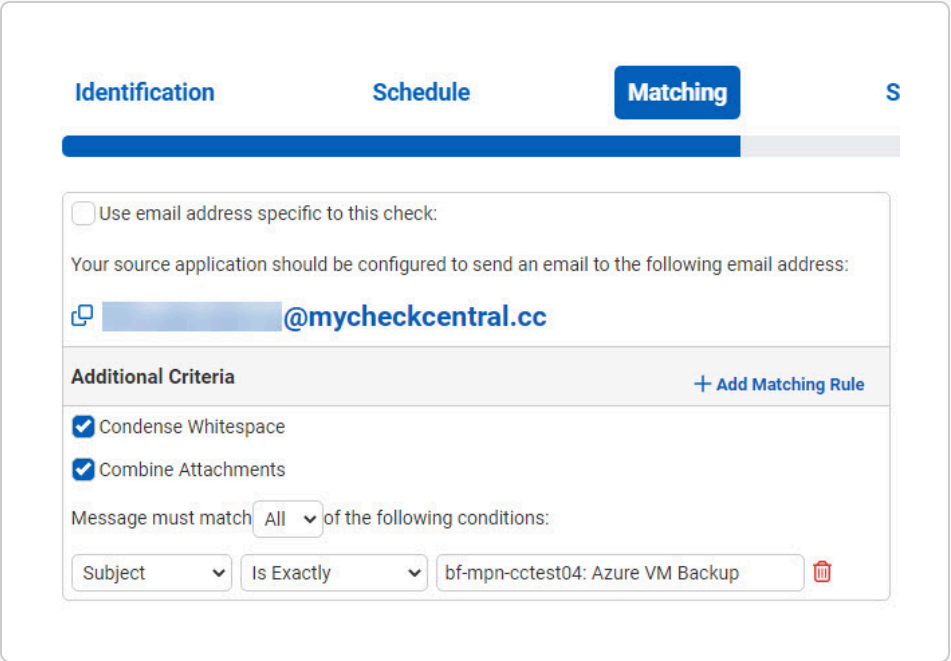
In case the script runs slightly late one day, you can configure the Check to only notify you if the email is late by more than a certain amount of time. We'll leave it at the default of 30 minutes for this example, which means that you won't get an "Overdue" notification until 9:31am tomorrow. This allows an extra 30 minutes for the script to run before any action is taken.



Configuring the Matching Rules

The activity that the script creates will include the VM name and the job type (backup or replication) in the subject line, so you'll match on the subject when configuring the check.

- On the Matching tab of the wizard, leave the defaults and click Next to advance to the Status tab.



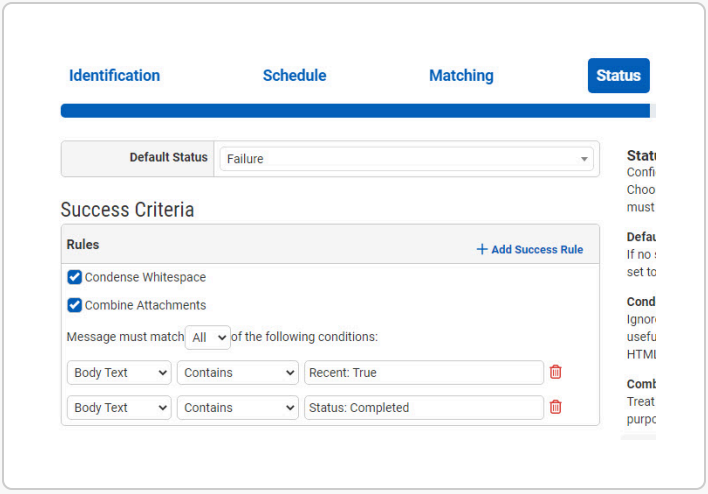
Configuring the Status Rules

IMPORTANT: The success rules will be different depending on whether it's a backup activity or a replication activity. Use only the backup rules, or replication rules below, depending on whether the activity is a backup or a replication activity.

Status Rules for Azure VM Backup and Azure Backup Agent activities

For a backup activity **ONLY**, use these conditions:

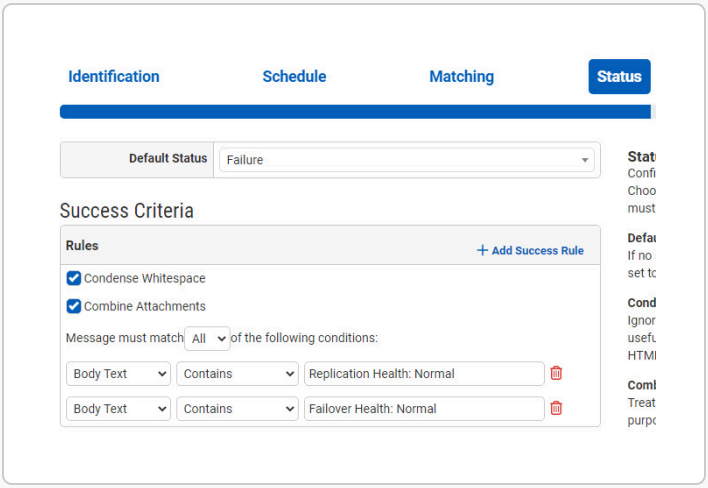
- On the Status tab, click "Add Success Rule."
- Set the rule to Body Text **Contains** `Recent: True`
- Click "Add Success Rule." again.
- Set the rule to Body Text **Contains** `Status: Completed`
- Click Next when you're done configuring the success conditions to advance to the Notifications tab.



Status Rules for Azure Replication activities

For a replication activity **ONLY**, use these conditions:

- On the Status tab, click "Add Success Rule."
- Set the rule to Body Text **Contains**
  `Replication Health: Normal`
- Click "Add Success Rule." again.
- Set the rule to Body Text **Contains**
  `Failover Health: Normal`
- Click Next when you're done configuring the success conditions to advance to the Notifications tab.

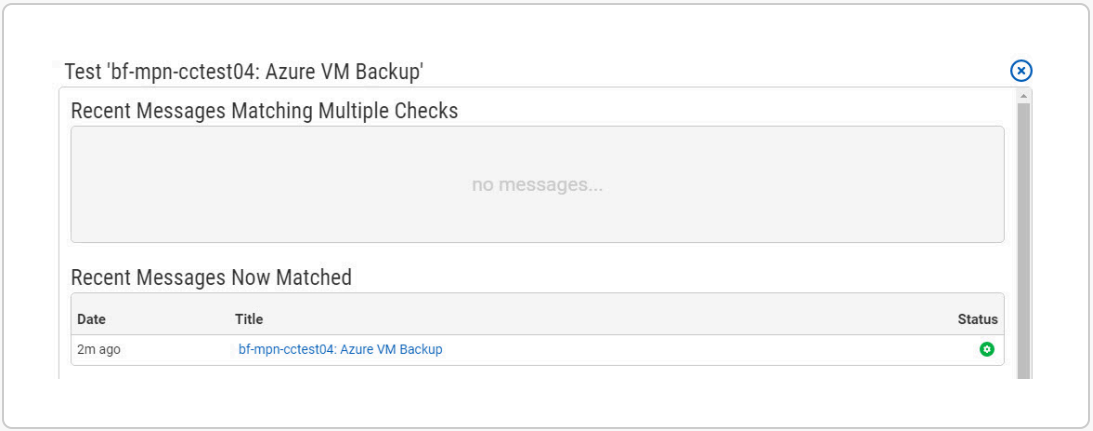


Configuring Notifications

- Configure your Notifications for this check, then click Next to advance to the Save tab.

Testing the Check Configuration

- On the Save tab of the wizard, click the Test button on the lower-right to confirm that the activity now matches the check. If the check configuration is correct, you will see the unmatched messages appear in the "Recent Messages Now Matched" section.
- Close the Check Test dialog, then click Save Check.



You can now repeat the check setup steps using the unmatched activities for any other VMs that were found in the vaults and sent in by the script.

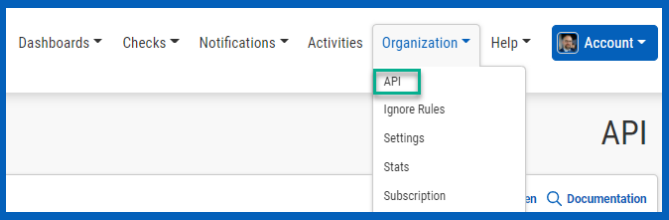
Troubleshooting

As always, if you run into any trouble configuring your Checks, please feel free to **contact us** and we'll be glad to help out.

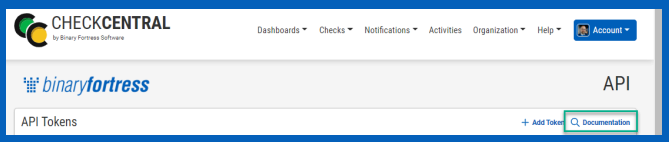
More API Documentation and Help

A full list of API Methods are available via the API page under your CheckCentral organization.

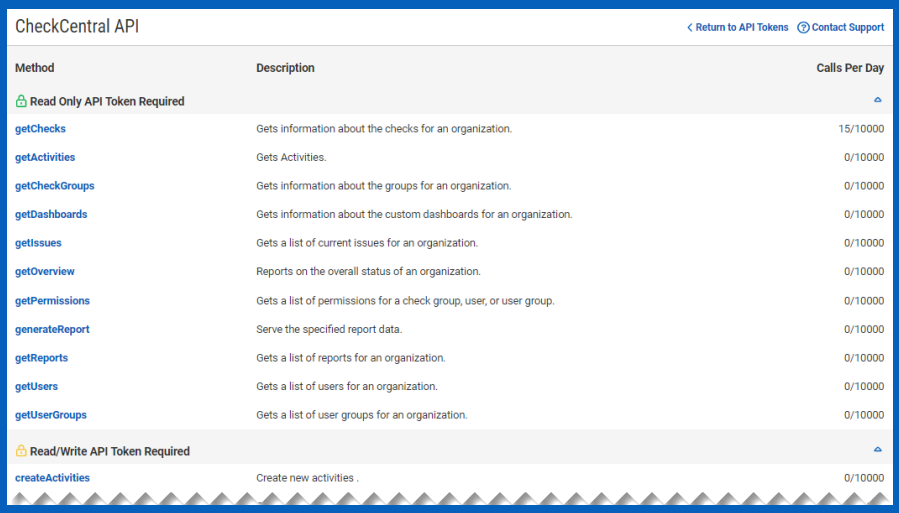
Log in to your account. Click "Organization" from the main menu, then "API."



Click "Documentation."



Here you'll see the list of Methods available, their permission requirements, their purpose, and the call limit per day.

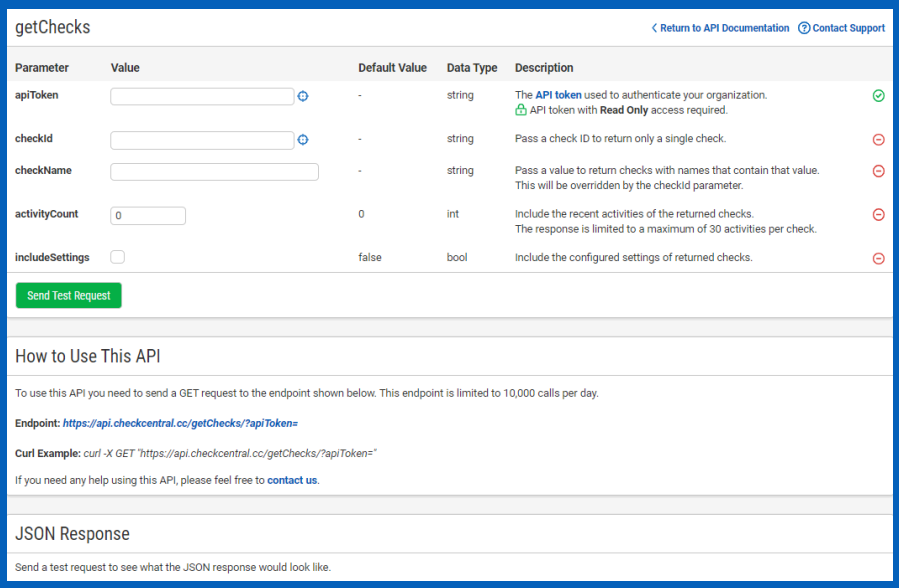


CheckCentral API

Return to API Tokens | Contact Support

Method	Description	Calls Per Day
Read Only API Token Required		
getChecks	Gets information about the checks for an organization.	15/10000
getActivities	Gets Activities.	0/10000
getCheckGroups	Gets information about the groups for an organization.	0/10000
getDashboards	Gets information about the custom dashboards for an organization.	0/10000
getIssues	Gets a list of current issues for an organization.	0/10000
getOverview	Reports on the overall status of an organization.	0/10000
getPermissions	Gets a list of permissions for a check group, user, or user group.	0/10000
generateReport	Serve the specified report data.	0/10000
getReports	Gets a list of reports for an organization.	0/10000
getUsers	Gets a list of users for an organization.	0/10000
getUserGroups	Gets a list of user groups for an organization.	0/10000
Read/Write API Token Required		
createActivities	Create new activities .	0/10000

Click on any of the Methods to see a testing area with parameter requirements and an example of usage. Populate the fields and click "Send Test Request" to see the JSON Response.



getChecks

Return to API Documentation | Contact Support

Parameter	Value	Default Value	Data Type	Description
apiToken		-	string	The **API token** used to authenticate your organization. API token with **Read Only** access required.
checkId		-	string	Pass a check ID to return only a single check.
checkName		-	string	Pass a value to return checks with names that contain that value. This will be overridden by the checkId parameter.
activityCount	0	0	int	Include the recent activities of the returned checks. The response is limited to a maximum of 30 activities per check.
includeSettings		false	bool	Include the configured settings of returned checks.

Send Test Request

How to Use This API

To use this API you need to send a GET request to the endpoint shown below. This endpoint is limited to 10,000 calls per day.

Endpoint: *https://api.checkcentral.cc/getChecks/?apiToken=*

Curl Example: *curl -X GET "https://api.checkcentral.cc/getChecks/?apiToken="*

If you need any help using this API, please feel free to **contact us**.

JSON Response

Send a test request to see what the JSON response would look like.

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.

Copyright © 2007-2026 Binary Fortress Software, all rights reserved.
The Binary Fortress logo is a trademark of Binary Fortress Software.
The CheckCentral logo is a trademark of Binary Fortress Software.

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