Azure VM Backup & Site Recovery



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.

Register an application	
* Name	
The user-facing display name for this applic	ation (this can be changed later).
CheckCentral	

- 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	\sim



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.

secret string that the application use:	s to prove its identity when	requesting a token. Also can be referred to as applica	tion password.	
+ New client secret				
Description	Expires	Value 🛈	Secret ID	
	4/8/2024	BbMSL D		n 🖻

- 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.

道 Delete 🌐 Endpoin	ts 💀 Preview features	
Got a second? We wo	uld love your feedback on Mid	crosoft identity platf
		27.43.
∧ Essentials		
Display name	: <u>CheckCentral</u>	
Application (client) ID	:	7311e21
Object ID	· · · · · · · · · · · · · · · · · · ·	\$837dc7
Directory (tenant) ID	:	ofb22db
	 Delete Endpoin Got a second? We wo Essentials Display name Application (client) ID 	 Delete Endpoints Preview features Got a second? We would love your feedback on Mid Essentials Display name : <u>CheckCentral</u> Application (client) ID :

- 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.

	Subscription name $\uparrow \downarrow$	Subscription ID ↑↓
~	Azure Subscription	93e5

- 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.

Role	Reader			
Scope	/subscriptions/	431		
Members	Name	Object ID		Тур
	CheckCentral		?f540	App
Description	No description			

- 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.

initiation	Schedule	Watching	
Frequency			
(requeries)			
Expected Interval			
Expected interval	1 Day(s) 🔻		
Set as Overdue	After 30 Minutes		
	Use Custom Schedule		

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.

Use email address spe	cific to this check:	
our source application sh	ould be configured to send an	email to the following email address:
ç (@mycheckcentral.cc	
Additional Criteria		+ Add Matching Bu
Condense Whitespace		,
Combine Attachments		
Combine Attachments	ullet of the following conditions	£

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.

Identification	Sched	lule	Matching	Statu
Default Status	Failure			₹
Success Criteria				Cl
Rules			+ Add Succ	ess Rule If
Condense Whitespace Combine Attachments Message must match All	✓ of the following the fol	ng conditions:		Se C Ig US
Body Text 🗸 Conta	iins 🗸	Recent: True		1 0 0
Body Text 🗸 Conta	iins 👻	Status: Completed		Tr pu



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.

			•		
Default Sta	tus Failure				Sta
Success Criteria					Cho
Rules			+ 4	dd Success Rule	Def
Condense Whitespa Combine Attachmer Message must match	nts All vof the fr	ollowi	ng conditions:		Set Cor Igno Use
Body Text 🗸 C	ontains	*	Replication Health: Normal	1	Cor
Body Text 🗸	ontains	*	Failover Health: Normal	1	Tre

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.

Recent Mes	ages Matching Multiple Checks	
	no messages	
Recent Mes	ages Now Matched	
Recent Mess	ages Now Matched	Status

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



Account -

API

Heln 🔻

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."



Notifications * Activities

CI		"Doo		atatia	<u> </u>
UI.	ICK		ume	illatio	П.

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

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.

CheckCentral API		< Return to API Tokens ⑦ Contact Support
Method	Description	Calls Per Day
🔓 Read Only API Token Required		۵
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		۵
createActivities	Create new activities .	0/10000

iii binaryfortress API Tokens

getChecks < Return to API Documentation ⑦ Contact Support											
Parameter	Value		Default Value	Data Type	Description						
apiToken		0	-	string	The API token used to authenticate your organization. API token with Read Only access required.	0					
checkId		Ø	-	string	Pass a check ID to return only a single check.	Θ					
checkName			-	string	Pass a value to return checks with names that contain that value. This will be overridden by the checkid parameter.	Θ					
activityCount	0		0	int	Include the recent activities of the returned checks. The response is limited to a maximum of 30 activities per check.	Θ					
includeSettings			false	bool	Include the configured settings of returned checks.	Θ					
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.											
an a											



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.com

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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