# Hyper-V Replication Health



# **Check Hyper-V Replication Status**

With Hyper-V, you can get the replication status using the Get-VMReplication command. This script gets the replication status from each of the servers you specify, and creates an activity in CheckCentral for each one, allowing you to have a separate check for each Hyper-V host that you want to monitor.

### Setting Up the API Token and the Script

#### Installation

- Download the script: <u>hyperv\_replication\_health.ps1</u>
- In CheckCentral, go to Organization > API.

ctivities Organization - Help -	Notifications 🕶	Checks 🕶	Dashboards 🔻
API			
Manage your CheckCentral API.			
Settings			
Stats			
Subscription			

Click "Add Token."

EVERYDAYmsp	API
API Tokens	+ Add Token Q Documentation
	no api tokens found

- Give the token a name, e.g. SERVER01 Hyper-V Replication Script.
- Select "createActivities Only" in the Access Level drop-down and click Save.

Add API To	ken	$\otimes$
Name	SERVER01 Hyper-V Replication Health	
Access Level	CreateActivities Only	T
	The API token will have access to the following endpoints:	
	CreateActivities Only	
	createActivities	
		Save

• Copy the token, and paste it in the script.

created
022-12-13 16:13
□ ▷ ▷ ቩ   ₪
.3 '

• Put the hostnames you want the script to run against in the \$hvHosts variable of the script.



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

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.

#### Scheduling

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

### **Configure the Check**

#### Create and Identify

• In CheckCentral, go to Activities.



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



The results will show below.

Filter				Save CSV	Save PDF	🖱 Reset
Group Name	All	* X				
Check Name	All	* 🗙				
Activity Status	All	* 🗙				
Matched	Unmatched	- 🗙				
Activity Limit	25					
Activity Source	🗹 Email 🗹 User Set 🗹 Overdue 🗹 CheckCentr	al API				
Date Range	💼 2022-07-15 x to 💼 2022-12-13 x					
	Today         Prev Day         Next Day         Last           This Month         Last Month         This Year         Last	7 Days Last 30 Days Year All Time				
			Reprocess	Delete Unmatched	Filt	ter
Activities						
Date	Title	Matched Check				
14s ago	Hyper-V Replication Status: SERVER01	Unmatched [create check]	[add ignore rule]			

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

Activities		
Date	Title	Matched Check
14s ago	Hyper-V Replication Status: SERVER01	Unmatched [create check] [add ignore rule]

- Leave the Name as is.
- Select an existing Check Group or create a new one by clicking "SAdd Check Group".
- Select an existing Label or create a new one by typing the name in the text field of the dropdown (optional).
- 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. <u>Halo Integration (asset ID)</u>.)

• Leave the Asset ID blank.



Your Check so far will look something like this:

Identification	Schedule	Matching	
Identification			
Name	Hyper-V Replication Status: SE	RVER01	
Assign to Group	Infinite Industries •	Search Add Check Group	
Label	Hyper-V Replication		• 🗙
Description			
Asset ID			

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



#### Schedule

- Leave "Scheduled" selected as we will be running the script regularly.
- 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.)

• 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.

Identification	Schedule	Matching
Schedule		
Frequency	Ounscheduled	
	O Scheduled	
Expected Interval	1 Day(s) •	
Set as Overdue	After 30 Minutes	•
	Use Irregular Schedule	

#### 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 Hyper-V Replication Health: are displayed, appended with the Computer Name of the computer running the script.



- Leave the Matching Rule as is.
- Leave Condense Whitespace and Combine Attachments enabled.

Identification	Schedule	Matching
Matching		
Use email address specific	to this check:	
Your source application should	be configured to send an email	to the following email address:
C everydaymsp@my	checkcentral.cc	
Additional Criteria + Add Mat	ching Rule	
Condense Whitespace		
Combine Attachments		
Message must match All 🗸	of the following conditions:	
Subject 🗸 Is Exac	tly   Hyper-V Replic	ation 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.)



The activity the script creates will list the replication status for each VM on the host in the body, so you'll configure the check status conditions to confirm that the words "Critical" and "Warning" are not in the body text, and that the word "Normal" is in the body text.

• Leave the Default Status on "Failure."

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

- Click + Add Success Rule.
- Set the rule to "Body Text" "Does Not Contain" Critical
- Click + Add Success Rule.
- Set the rule to "Body Text" "Does Not Contain" Warning
- Click + Add Success Rule.
- Set the rule to "Body Text" "Contains" Normal
- Leave the Condense Whitespace and Combine Attachments checkboxes enabled.

Identification	Schedule	Schedule Matching	
Status			Sta
Default Status	Failure		- defa
Success Criteria			Defa If no this
Rules + <u>Add Success Rule</u>	2		Con Igno
<ul> <li>✓ Condense Whitespace</li> <li>✓ Combine Attachments</li> </ul>			Com Trea
Message must match Al	$\mathbf{V}$ of the following conditions	5.	Rule
Body Text 🗸 Do	bes Not Contain 🗸 Critical	<u></u>	By d can
Body Text 🗸 Do	bes Not Contain 🗸 Warning	<u></u>	mee
Body Text 🗸 Co	ontains 🗸 Normal		

#### Notifications

Identification	Schedule	Matching	Statu	IS	Notifications
Notifications			1	Notifications	s, warnings, and status
ailure and Warning Notificat	tions		c	communicated for th	is check.
🗹 🖂 Email			F	<b>ailure and Warning</b> Jsers will be sent Fai	Notifications lure and Warning notifi
🕞 💬 SMS			p	ersonal notification	settings.
📃 📜 Push			N	Notification Channel	s (optional)
D Pushbullet			t	o when updating this	check's status.
🗌 🕐 Pushover			A	Add notification chan	nels on your <b>organiza</b> t
Notification Channels			E	External Ticketing Sy Configure which exte update based on this	stems (optional) rnal ticketing systems check's status.
× 🛟 Asana 🛛 × 🎽 Bugzilla	×🖧 Custom Webhook 🛛 🛪 🛱 Disc	cord (webhook)		Configure external tic	keting systems on you
×⊠ External Emails X (€) G	GitHub 🛛 × 🦊 GitLab 🛛 × 🗩 Google	Chat (webhook)	5	systems page.	
ו•••• IFTTT (webhook) × 💠	Jira Software (webhook) × 🕑 M	lattermost (webhook)	h f	Notify authorized use ailure or warning	ers when this check is
× 📫 Microsoft Teams (webh	ook) × V Microsoft To Do List	×      Redmine		Jsers will be notified	based on this check's
× 💬 Rocket.Chat (webhook)	× 📲 Slack 🛛 × 📲 Slack (webhoo	K)	t	heir personal notifica	ation settings. In order
				Cond notifications fo	
External Ticketing Systems			1	Fime Window	i messages processed
× Autotask	× 💩 Bugzilla 🛛 🛪 🛜 ConnectWise	Manage x  Freshdesk	en 5	Uncheck to have Che	ckCentral only send no
× Freshservice × G Git	Hub × GitLab × O HaloPSA	indiage in the index		advanced schedule. I	f this option is enabled
× 👉 Jira Service Managemer	nt 🛛 🗙 Aira Software 🖉 🖉 Kase	ya BMS		lotify on Penested A	lerte
× Vicrosoft To Do List	Redmine × SyncroMSP	× 🛃 Zendesk		Configure notification	behaviour for consec
			S	set to failure or warni	ng multiple times with
ptions				etween, checkCentr	ai wiii use triis +
Notify authorized users who	en this check is restored to succes	s from failure or warning	N I	Notification Grace Pe f there is a grace per	e <b>riod</b> iod set, CheckCentral v
<b>•</b> • • • • • • • • • • • • • • • • • •		ing Time Window	r	notifications for each	failure or warning acti
Send notifications for mess	sages processed outside of the Arri	vai Time Window	i	s restored to succes	s before an activit +
Notify on Repeated Alerts					

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 **<u>CheckCentral Beginner's Guide (Notifications)</u>**.

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



#### Save

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



- Close the Test window.
- 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

## 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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