

SQL Database Backup Monitoring

Using a Powershell script and custom service



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Geolocation Information

Overview

N-able Technologies has developed a script and a custom service that allows to monitor the last backup time of a specific database or all databases for a Microsoft SQL Server.

To use it, the script must be run at periodic interval (we recommend every 24 hours, but the actual schedule is customizable), and a custom service must be deployed.

Requirements

This script was tested on all current Microsoft Windows OS :

- Windows XP, Windows Vista, Windows 7, Windows Server 2003 (R2), Windows Server2008 (R2).
- Windows 8 and Windows Server 2012 are not currently supported.

Additionally, the script requires Powershell 2.0, Microsoft .net 4 and Microsoft SQL Server 2005,2008 or 2008R2

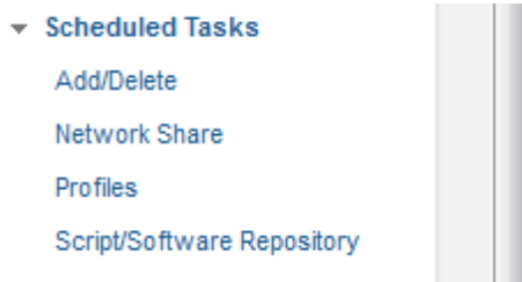
Workflow

The script when run on a local computer will get backup information for all databases for all instances

Deployment

Importing and configuring the script

1. Download the Get External IP and Location script from the N-able Resource Center (<http://nrc.n-able.com>) under COMMUNITY > Custom Services section.
2. Import the Powershell script into the N-Central Script Repository
 - a. From the Service Organization Level (orange), go to the configuration menu, then to **Scheduled Tasks**,



- b. Select **Script/Software Repository**
- c. Click ADD and choose scripting, then click on BROWSE to select the script

Details

Type:	Scripting
Name:	<input type="text" value="Get External IP and GeoLocation"/>
Description:	<input type="text" value="get external ip addressand GeoLocation of a device"/>
File Name:	<input type="text" value="GetExternalIPAndLocation.ps 1"/> <input type="button" value="Browse ..."/> <input type="button" value="Cancel"/>
Command Line Parameters:	<input type="text" value="GetExternalIPAndLocation.ps 1"/>

- d. Once uploaded, it will be available for use
3. Create a Scheduled Task profile (as detailed below) to run the script every 6-12 hours (or as needed).
 - a. From the Customer level (green), go to the configuration menu, then to Scheduled Tasks, and click on profiles. Select ADD scripting task
 - i. Enter a name
 - ii. Select the script from the repository list
 - iii. Select the rule on which to apply the profile.
 - iv. Select the schedule and set it to recurring

- ### Schedule

Type:

Task Interval:

Interval:

Start Time:

Days of the Week: ☒ Every day ☐ Selected days

Days of the Month: ☒ Every day ☐ Less day ☐ Selected dates

Months of the Year: ☒ Every month ☐ Selected months

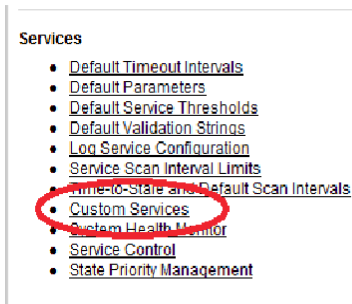
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7	
8	9	10	11	12	13	14	
15	16	17	18	19	20	21	
22	23	24	25	26	27	28	
29	30	31	All				

Jan	Feb	Mar
Apr	May	Jun
Jul	Aug	Sep
Oct	Nov	Dec
All	Clear	

Importing and configuring the custom service

To import the custom service:

1. log on to the NAC by going to <http://YOURSERVER:10000> and logging in with your product administrator
2. go to **Custom Services** within the services section on the left



Import Service

3. Click on IMPORT SERVICE
4. Click on BROWSE and select the service file (xml file), then click on IMPORT

A screenshot of the 'Import Custom Service' form in the N-Central GUI. The form has a title bar with 'N-CENTRAL' and navigation links 'Setup', 'My Account', and 'Help'. Below the title bar, a breadcrumb trail shows 'Setup > Custom Services > Import Custom Service'. The main heading is 'Import Custom Service'. A note indicates that certain fields are required. There are two input fields: '* Service File ?:' and 'Service Item File ?:', each followed by a 'Browse...' button. At the bottom of the form are 'Import' and 'Cancel' buttons.

5. The service is now imported. Go to the N-Central GUI and select the device where to add the service. Go to the STATUS tab and click on ADD

A screenshot of the 'Services' tab in the N-Central GUI. At the top are three tabs: 'Properties', 'Status' (which is active), and 'Asset'. Below the tabs is a section titled 'Services'. In this section, there are three buttons: 'Add', 'Delete', and 'Create Service Te'. Below these buttons is a table with one row containing a checkbox, the text 'Service', and a small red icon.

6. From the list, enter a 1 besides IP Address and GeoLocation


A screenshot of a table within the N-Central GUI. The table has three columns. The first column contains the text 'IP Address and GeoLocation'. The second column contains the number '1'. The third column contains an empty input field with a small '0' inside it.


7. Click on OK at the bottom of the list
8. The service will now report on the script data for the summary entry.

- To change for a specific instance/db, go to the service details tab, and enter INSTANCE\DBNAME.

Data being monitored

Information contained within the custom service

 **W - MTANGUAY-W8: SQL Last Backup Datetime - SUMMARY**

 **Remote Control**
Click to connect


Status


Service Details

Thresholds

Self Healing


Reports


 **Service Status**

Current Status: 

Scan Time: 2013-Aug-26 13:48

Transition Time: 2013-Aug-26 13:49

 **Status Details**

Description	Value	State	Thresholds
Last Backup Date	01/01/0001 00:00:00	--	--
Is Backup Within Threshold (set in script)	0	Normal	1 - 1
		Warning	2 - 2
		 Failed	0 - 0
SQL Instance Name	SUMMARY	--	--
Database Name (if selected in script)	SUMMARY	--	--
Details of Backup Dates	Oldest Backup database : mssqlserver \ master	--	--