

DFSR Monitoring

Using a Powershell script and custom service



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DFSR Information

Overview

N-able Technologies has developed a script and a custom service that allows to get the information about DFS drives and the number of files that are queued for replication

To use it, the script must be run at periodic interval (we recommend every 30 minutes, but the actual schedule is customizable), and a custom service must be deployed.

Requirements

This script was tested on current Microsoft Windows Server OS :

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

Additionally, the script requires Powershell 2.0 and Microsoft .net 4

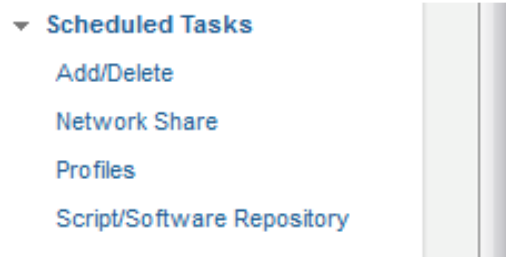
Workflow

The script when run on a local computer uses PowerShell commands to get latency information and then report it in WMI for a custom service to use.

Deployment

Importing and configuring the script

1. Download the DFSR Monitoring 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="DFSR Monitoring"/>
Description:	<input type="text" value="Get DFSR Queue length and status"/>
File Name:	<input type="text" value="DFSR Monitoring V2.ps1"/> <input type="button" value="Browse ..."/> <input type="button" value="Cancel"/>
Command Line Parameters:	<input type="text" value="DFSR Monitoring V2.ps1"/>

- d. Once uploaded, it will be available for use
3. Create a Scheduled Task profile (as detailed below) to run the script every 30 minutes (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
- v. Select Custom if it needs to be scanned more frequently than hourly, and add all the times that are required, and leave the other fields default (every day, every month).

Schedule

Type:

Task Timeout: hours

Interval:

Start Time:

Days of the Week: ☒ Every day ☐ Intermittent days

Days of the Month: ☒ Every day ☐ Intermittent days

Months of the Year: ☒ Every month ☐ Selected months

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	Notes

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

- vi. If desired, select notifications to be sent if the task fails to run.
- vii. Save the task. The task will now run at the specified times.

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 the N-Central logo and navigation links. Below the title, it says 'Setup > Custom Services > Import Custom Service'. The main heading is 'Import Custom Service'. There is a note: '* Required field'. Below this, a message states: 'For information about how to set up a file for import, refer to the Help.' There are two input fields: '* Service File' and 'Service Item File', each with a 'Browse...' button next to it. 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 'Status' tab in the N-Central GUI. At the top, there are three tabs: 'Properties', 'Status' (which is selected), and 'Asset'. Below the tabs is a section titled 'Services'. Under this section, there are three buttons: 'Add', 'Delete', and 'Create Service Te'. Below these buttons is a table with one row. The first column is labeled 'Service' and has a dropdown arrow next to it.

6. From the list, enter a 1 besides DFSR Monitoring

DFSR Monitoring 100 0

7. Click on OK at the bottom of the list
8. The service will now report on the script data. Add as many copies as you want and enter the path of the drive as well as the server names.

The fields to setup the service are as follows :

Details

* Monitoring:	Enabled ▾	?
Monitored By:	Local Agent ▾	?
Service Description:		?
* Folder Name and Info (for display purposes only):	DFSGROUP1 - testdfs1 - localhost-se08r2vcntrlab2	?
* ReplicationGroupName - Share Group Name:	DFSGroup1	?
* ReceivingMember - Server Name:	LOCALHOST\$?
* SendingMember - Server Name:	SE08R2VCNTRLAB2	?
* ReplicatedFolderName:	testdfs1	?

In some cases, getting the folder name and the server name may be difficult due to special characters or other things. To go see on the server what they are, do this :

1. Run WBEMTEST
2. Click connect, enter root\cimv2\nable, and connect
3. Click on ENUM CLASSES
4. Click recursive and ok
5. Find the DFSRSummary and open it
6. Click on INSTANCES
7. Select the instance that you want to report on
8. The ReplicationGroupName, ReceivingMember, SendingMember, ReplicatedFolderName will show in here so copy/paste the data into n-central (note that the receiving member will always have a \$ at the end. This is required in central too.

The first variable (Folder Name and info) is what is going to display in the description of the service in n-central, so this is used for display purposes only.