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

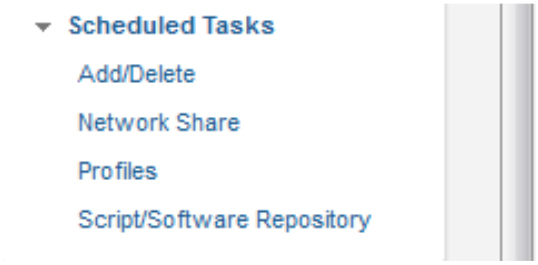
Workflow

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.

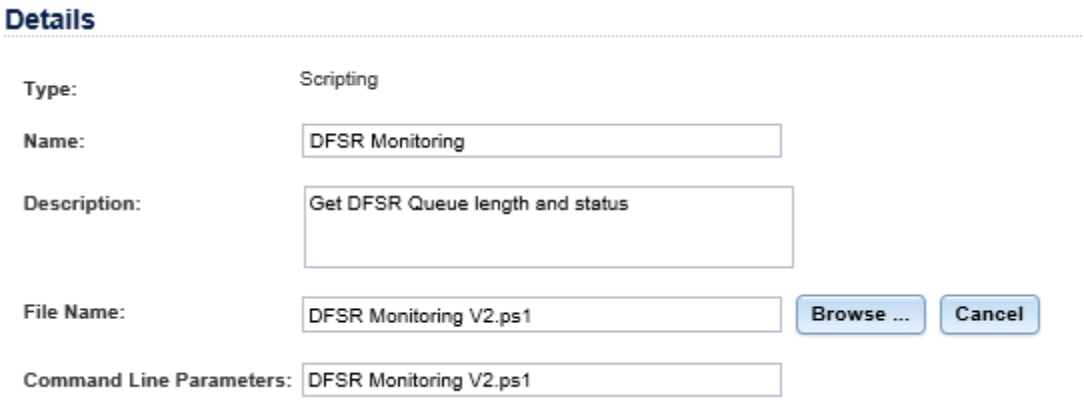
Deployment

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



    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.

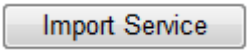
iv. Select the schedule and set it to recurring
v. Select Custom if it needs to be scanned more frequently than hourly, and add all the times that are required, and leave the other fields default (every day, every month).

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.

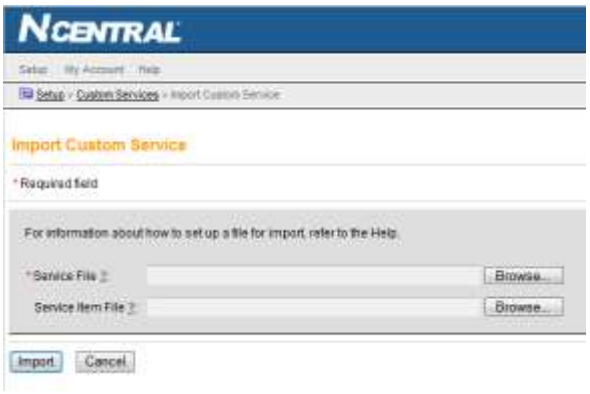
Importing and configuring the custom service

To import the custom service:

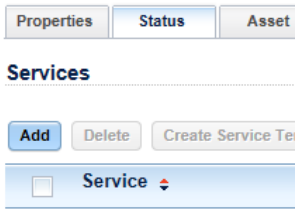
1. log on to the NAC by going to httpS://YOURSERVER:10000 and logging in with your product administrator
2. go to **Custom Services** within the services section on the left

3. Click on IMPORT SERVICE 

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



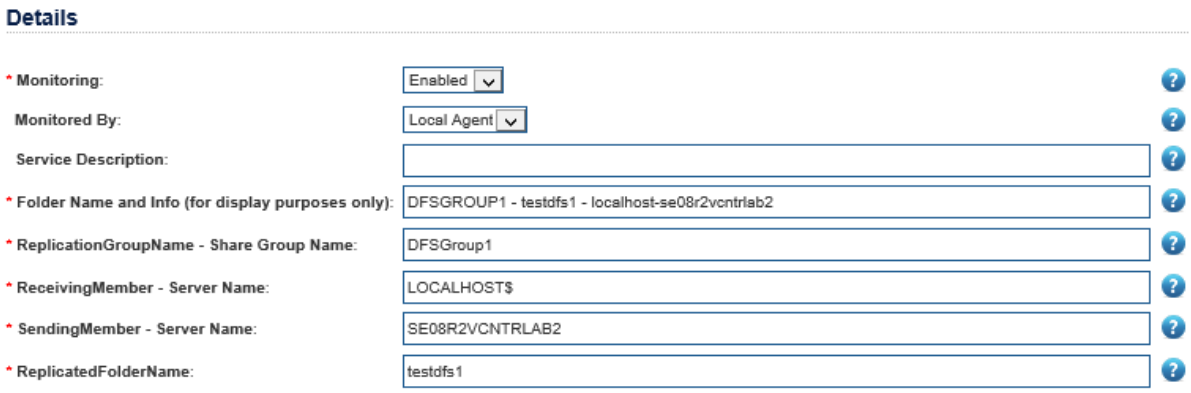
5. The service is now imported. Go to the N-Central GUI and select the device where to add the service. Go to the STATUS tab and click on ADD



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

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 :



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.