

DHCP Redundancy

for Windows Server 2003

Instructions how to do a new installation of DHCP redundancy.

NOTE! If you want to upgrade to version 1.52 from an older installation, read the Upgrade instructions.

INSTALLATION

NOTE! .Net-framework v.2.0 or higher must be installed on the second server.

NOTE! Can only be installed on English, French, Polish, German or Swedish versions of 2003 Server

1. Download the latest version of DHCP-Redanducy.zip from <http://www.c64gg.com/dhcp-redundancy>.
2. Create a directory on the second server and unzip the files there.
3. Install the DHCP Server service on the second server, don't create any scopes. If you have an AD and the main DHCP-server is authorized by the AD then the redundant DHCP service also has to be authorized.
4. Go to Computer Management and stop the DHCP Server service.
5. Copy the file DHCP-Backup.bat to your main server. This .bat file extracts the info from the main DHCP service that will be imported into the second service.
6. Edit the file DHCP-Backup.bat and replace the three <---Enter UNC path here---> with the UNC-path to an existing directory on your secondary server where you want to put backup-file that will be used to synchronize the DHCP servers, eg:

```
echo "exporting configuration" > "\\ Server2\c$\program files\dhcp-redundancy\Exporting.txt"
netsh dhcp server export "\\ Server2\c$\program files\dhcp-redundancy\DHCP-Backup.txt" all
del "\\ Server2\c$\program files\dhcp-redundancy\Exporting.txt"
```
7. On your main server create a scheduled task that should execute DHCP-Backup.bat. It can be run as often as you like. The DHCP export takes 5-10 seconds, and keep in mind that the main DHCP service will not respond to DHCP request during the export. The user account that shall run the task must have rights to write a file in the directory on the second server that you entered in DHCP-Backup.bat at step 6.
8. Right-click on the task and choose Run, it should now have created the file DHCP-Backup.txt in the chosen directory on the second server.
9. Switch to the second server. Run the program DHCP-Redundancy-config.exe.
10. In the box "Mail address of alert receivers" enter an email address of a person or group that shall receive an email when the service switches over to the second DHCP service. Then click Add. You can have up to 10 mail receivers

11. In the box "Mail address of alert sender" enter an email address that the service will use as the sender address for the alert emails.
12. Click the checkbox if you want the redundancy service to send an alert mail also when the main DHCP service is restored and the second is stopped.
13. If you want to customize the header and/or the body of the alert mails, click the Change button. Then enter the text you want. If you want the default text, leave the textboxes empty.
14. Enter the IP address of the mail server and the main DHCP server.
15. If you want SMTP authentication, click the checkbox Use SMTP Authentication. Click Change to enter SMTP username and password.
16. Click Browse and choose the directory you entered in step 6.
17. Now test the email settings by clicking the Send button. If everything is ok the emails should arrive shortly.
18. Click Save to save the settings.
19. Click on the Service menu, and choose to Install and start the DHCP-Redundancy service.
20. Exit the DHCP Redundancy Config program.
21. Now stop the main DHCP service. Within one minute the redundant DHCP service should have started and imported the backup from the main service. Check the redundant DHCP to see that all scopes and settings are imported correctly.
22. Start the main DHCP service again. The redundant service should stop within one minute.
23. If your client computers are not on the same subnet as your servers, then configure your router and add a DHCP relay address of the second server.
24. I recommend that you go to Properties on your both DHCP servers in the DHCP management tool and choose the Advanced tab and set the Conflict Detection Attempts to 2.

All installation is now done.

Now check that everything works as it should. On the main DHCP server, open Computer management and stop the DHCP service, within one minute the second DHCP service should start and the alert receivers should receive an alert email. You should be able to renew the IP address on your clients, now provided by the second server. Now start the main DHCP service and within one minute the second service should stop.