



## DFS-R setup for On-Premise Load Balanced installations

### Introduction

DFS-R (Distributed File System - Replication) is a Windows role service that can be configured to share files between multiple web servers. We use this to ensure that the following folders are synced (bi-directionally) within a Load Balanced Environment:

Application  
Data

If you'd like to learn more about DFS-R, refer to this [Microsoft Knowledge Base article](#).

### Requirements for configuration

As this Windows service requires Domain Administrator-level permissions to configure, which may not always be available to Claromentis employees, the following information will explain how DFS-R needs to be configured to correctly sync the required Claromentis files between each web server.

### Install DFS

DFS-R will need to be installed on each of the web servers.

1. Open Server Manager, on the Dashboard, click Add Roles and Features.
2. In the 'Before you begin...' dialogue, click **[Next]**
3. On the Select installation type page, click 'Next' to proceed (make sure Role-based or feature-based installation is selected)
4. On the Select destination server page, click **[Next]**
5. On the Select server roles page, expand **[File and Storage Services]**, expand **[File and iSCSI Services]**, and then select the **[DFS Namespaces]** and **[DFS Replication]** check boxes. Click **[Next]** once selected.
6. On the features page, click 'Next' 8. On the Confirm installation selections box, click **[Install]**
7. Wait for a few minutes for the installation to complete, and when the installation completes, click close...\*
8. Repeat steps on the second web server.

# Namespace Creation

On the master server (for example, web 1), set up the namespace configuration as follows:

1. Open DFS Management from Server Manager or from the Start menu.
2. Expand **[Namespace]** and select **[New Namespace]**
3. Within the Select Computer Wizard, enter the name of the web1 (master) server, and click **[Check Names]**
  1. If the name isn't recognised, browse for the server within this search box.
4. Once the server has been selected, click **[Ok]** and then **[Next]** to continue the wizard
5. Name the namespace **Claromentis**. Select **[Next]** when finished
6. Select **[Domain-based namespace]** for Namespace Type (this requires Domain Admin privileges). Select **[Next]**
7. Select **[Create]** on 'Review Settings and Create Namespace'
8. Click **[Close]**

# Replication Creation

Application directory:

1. In DFS Management, expand **[Replication]**
2. When prompted, select **[Multi-purpose replication group]**. Select **[Next]**
3. Name the replication group as **[claromentis-application]**. Select **[Next]**
4. Under **[Replication Group Members]**, select **[Add]**
5. Enter the names of both web1 and web2 servers, click **[Ok]**, and select **[Next]**
6. In the **[Topology]** selection, select **[Full Mesh]** and select **[Next]**
7. Under [Replication Group Schedule...], select **[Replicate continuously using the specified bandwidth]**. Select **[Full]** for Bandwidth.
8. Under the **[Primary Member]** section, select Web1 in the **[Primary Member]** dropdown menu and select **[Next]**
9. Under [Folders to Replicate], select [Browse] and browse to **[C:/Claromentis/application]** directory. Select **[OK]** when finished. NOTE: The drive letter will vary depending on your installation; change accordingly.
10. Leave other settings and permissions at their defaults. Select **[OK]** and then select **[Next]**
11. By default, the second/subsequent members (Web2) local path is NOT enabled. Select **[Edit]**
12. Select **[Enabled]** and **[Browse]**
13. On Web2, browse to the **[C:/Claromentis/application]** directory and select **[OK]**
14. Review settings for Web2 and select **[OK]**, and select **[Next]**
15. The next screen will give you a summary of the settings. Select **[Create]** when ready.
16. Once complete, you can click **[Close]**, and the replication has been configured

Repeat the above steps for the **Data** directory, naming the replication **[claromentis-data]**

The data directory is located at C:/Claromentis/data (The drive letter will vary depending on your installation; change accordingly.)

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## Confirm DFS is working

Open Event Viewer. Expand **[Application and Services Logs]** and navigate to **[DFS Replication]**. Ensure that the communication between the servers is successful.

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