Active Directory Domain Services

Last updated by | Mohamad Damati | Dec 23, 2020 at 3:14 PM GMT+3

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Introduction

This guide will take you through the steps of deploying and configuring Enterprise Dashboards for Active Directory Domain Services

Getting Started

There are actions must be done before create and deploy System Center Enterprise Dashboard and steps you must take to properly deploy it.

Prerequisites

Before you start you must make sure you have the following prerequisites:

- 1. Power BI Reporting Service
- 2. Operations Manager 2012 R2, 2016 or 2019
- 3. Operations Manager Environment is healthy and does not suffer from performance issues.
- 4. Service Account to access databases
- 5. Download and import latest Active Directory Domain Services Management Pack
- 6. Import Windows Servers Core OS Dashboard as some components depends on it.

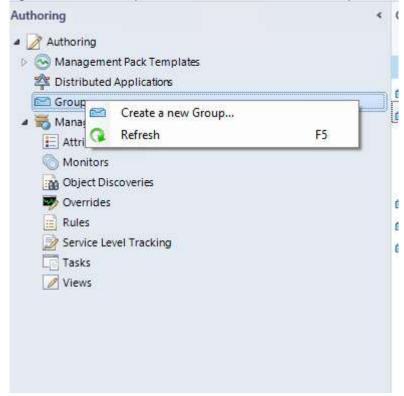
Active Directory Domain Services Enterprise Dashboard Deployment

Use the following steps to deploy Dashboard.

Step 1: Create Dashboard Group

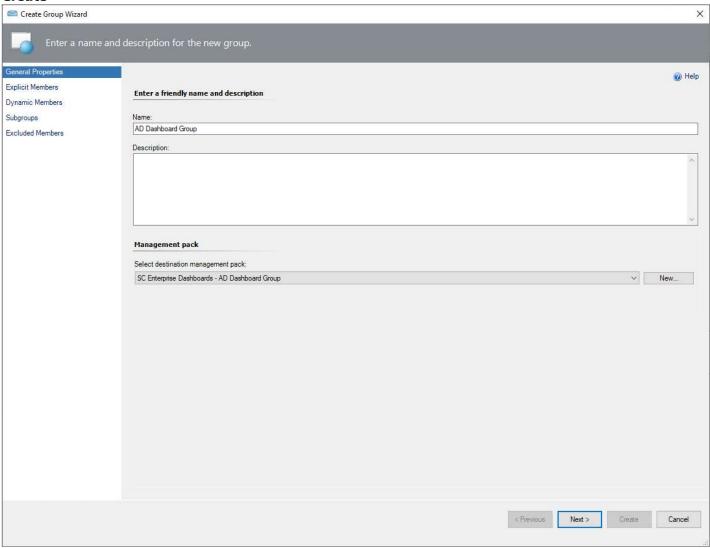
Enterprise Dashboards scope is defined based on Operations Manager Group for each workload, for Active Directory Domain Services Dashboard the scope group name is **AD Dashboard Group**.

- 1. Open SCOM Console, browse to Authoring --> Groups
- 2. right Click on Groups and select Create a new Group



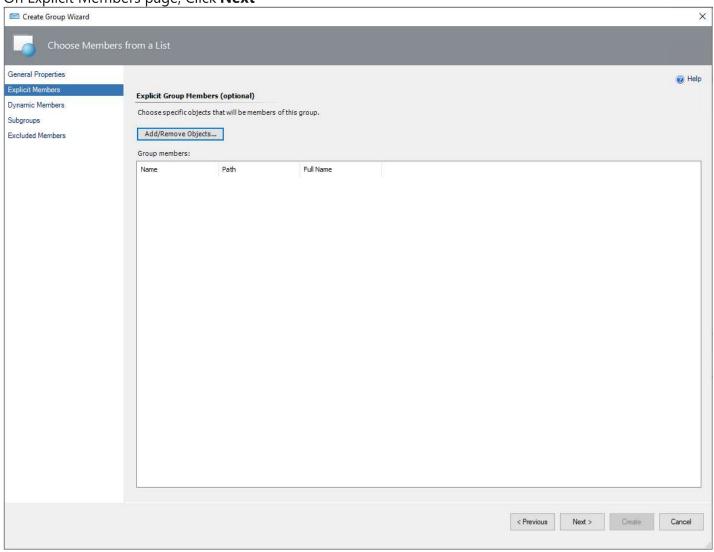
3. In Create Group Wizard, Type Group name "**AD Dashboard Group**" and in Management Pack destination, click on **New**. Create New management pack to save this group. click **Next** and in Knowledge Page click

Create

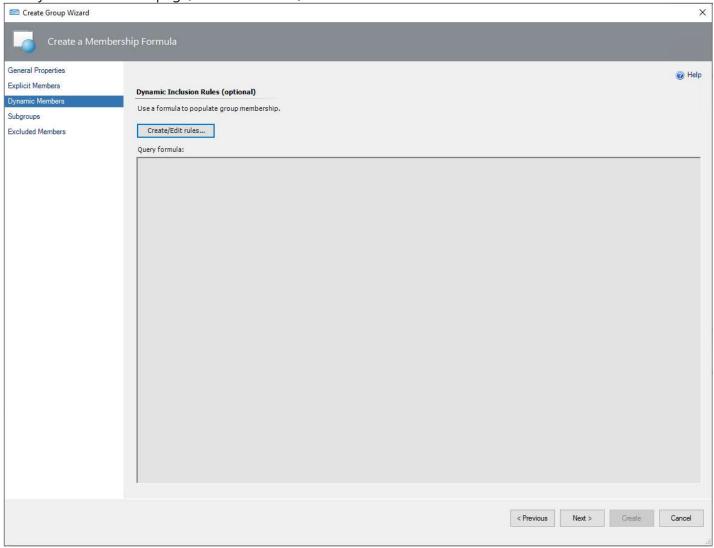


4. Verify Dashboard name and click Next

5. On Explicit Members page, Click **Next**

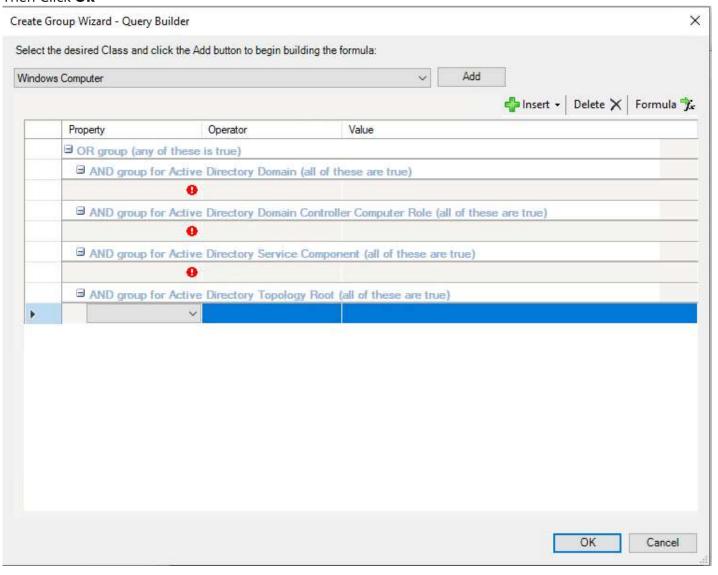


6. On Dynamic Members page, Click on Create/Edit rules

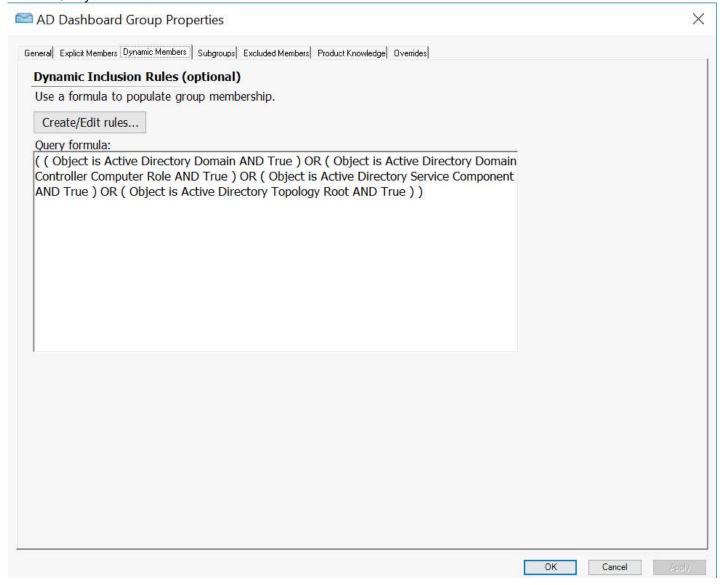


- 7. Add Following Classes by selecting **class name** and then **Insert**
 - a. Active Directory Domain
 - b. Active Directory Domain Controller Computer Role
 - c. Active Directory Service Component
 - d. Active Directory Topology Root

Then Click **Ok**

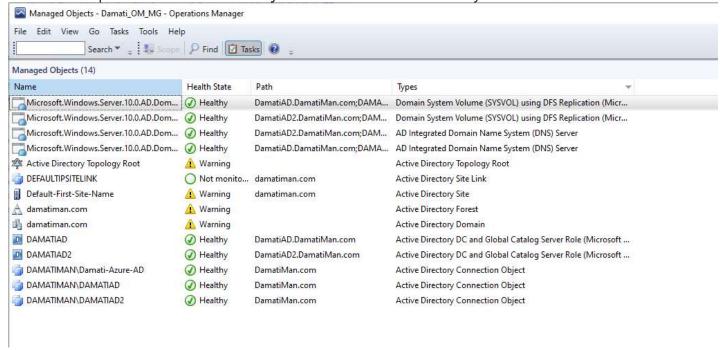


8. Check Query formula written and click **Ok**



9. Find the Group created, right click on it and select **View Group Members**

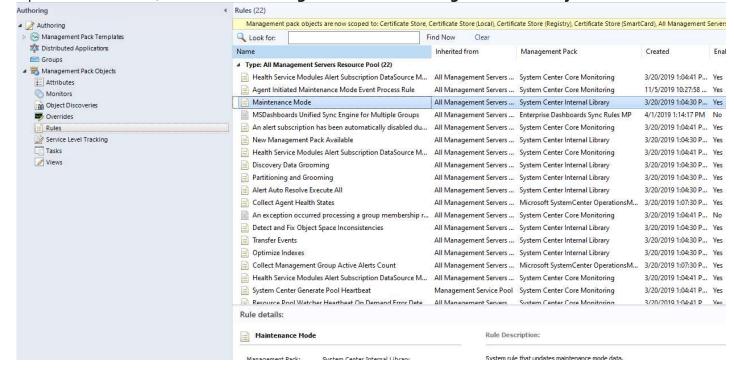
10. Confirm Group members includes all objects that were mentioned in dynamic rules.



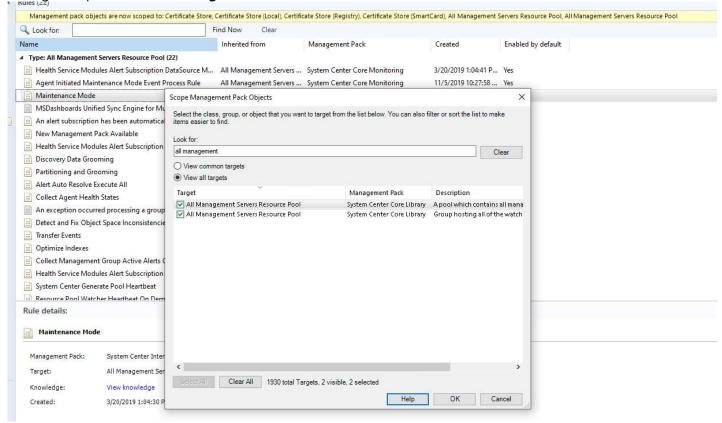
Step 2: Modify Sync Rule

Enterprise Dashboards sync rule need to be modified to include new group created. the sync rule later, will start populating group members state information to EnterpriseDashbaord Database. follow below steps to add group to Sync Rule

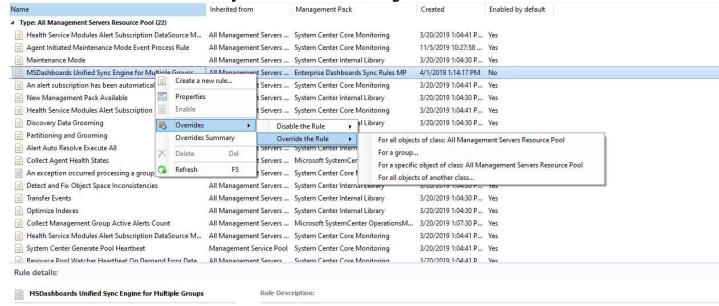
1. Open SCOM Console, browse to Authoring Tab and select Management Pack Objects --> Rules



2. Change Scope to be All Management Servers Resource Pool and then click Ok

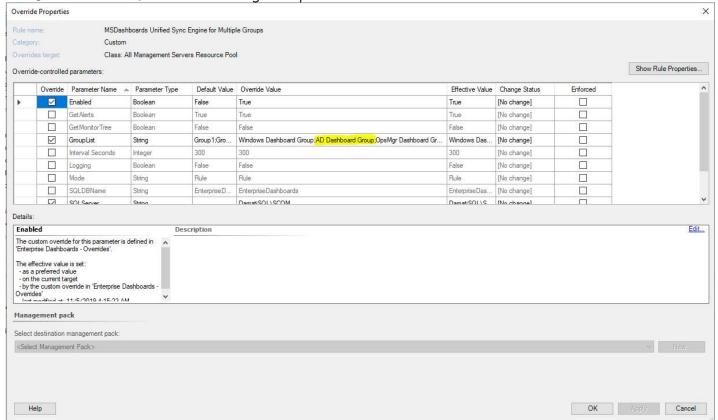


3. Right click on MSDashboards Unified Sync Engine for Multiple Groups and select Overrides -->
Override the Rule --> For All objects of class: All Management Servers Resource Pool



- 4. In Override Rule properties, Ensure the following overrides enabled:
 - a. **Enabled** = True
 - b. **GroupList** includes "AD Dashboard Group"

c. **SQLServer** = <SQL Instance hosting EnterpriseDashboards Database>

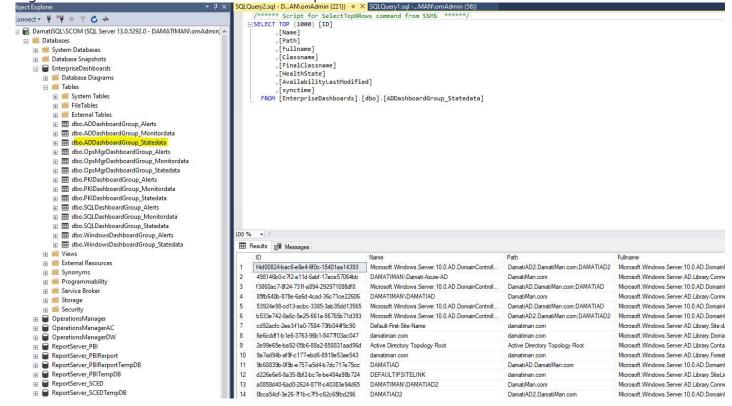


5. Click on **Ok**

Step 3: Confirm Group populates information to EnterpriseDashboard Database

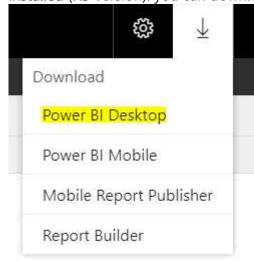
- 1. Using SQL Management Studio, Open EnterpriseDashboard Database and exand Tables.
- 2. Check if ADDashboardGroup_Statedata table is created.

3. Right click on the table and click on Select Top 1000 Rows. confirm results.



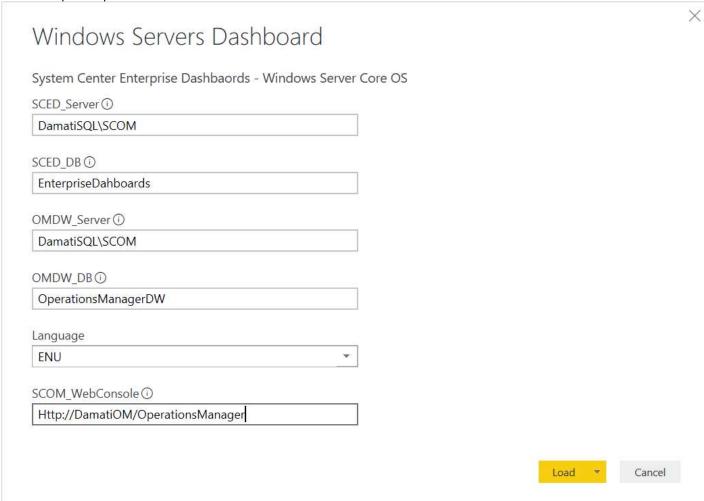
Step 4: Import Dashboard Template File

Following steps need to be applied on your desktop or Report server. make sure you have Power BI desktop installed (RS Version), you can download it from Power BI Report Server if you have required permisions.



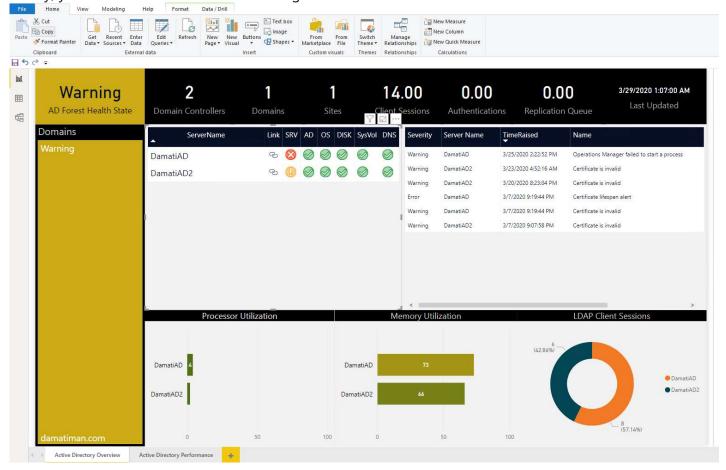
- Download Active Directory Dashboard Power BI Template <u>Active Directory Domain Services.zip</u>
- 2. Open Template file

3. Insert required parameters then click Loadnotes



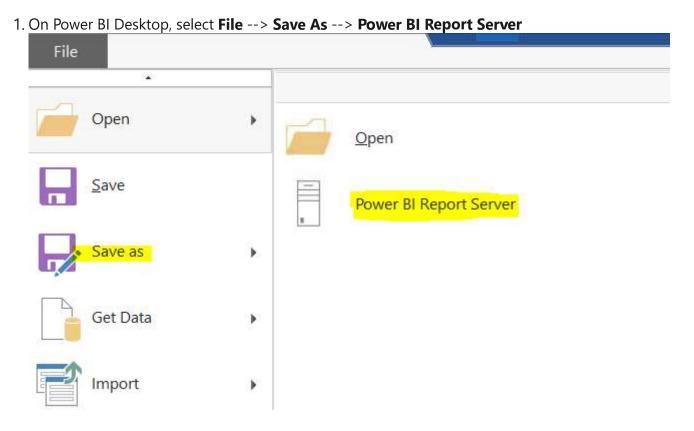
4. Dashboard will start connecting to Operations Manager Databases and load required information to build visulizations

5. Finally, you will have the dashboard running

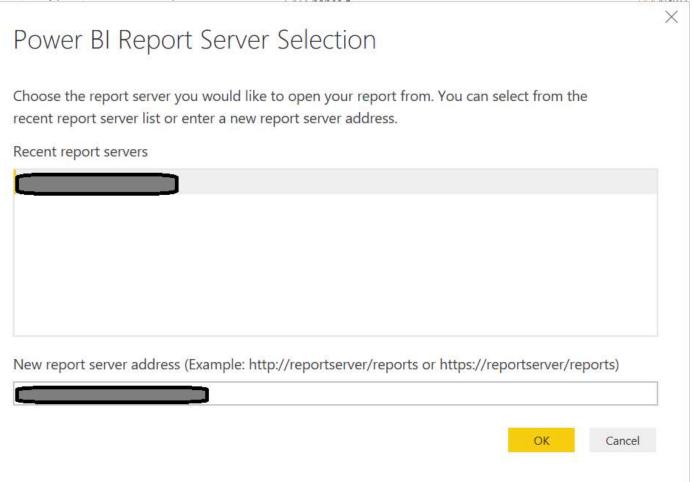


Step 5: Save Dashboard to Power BI Report Server

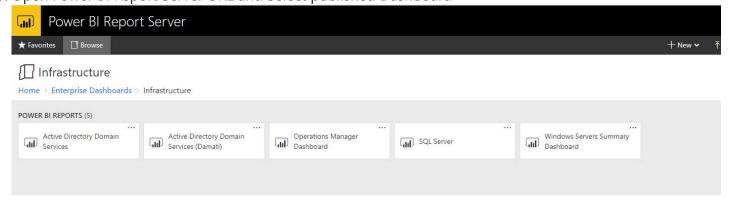
Once the dashboard is ready to be published, follow below steps.



2. Select or Type in Power BI Report Server Name and click **Ok**



3. Open Power BI Report Server URL and Select published Dashboard

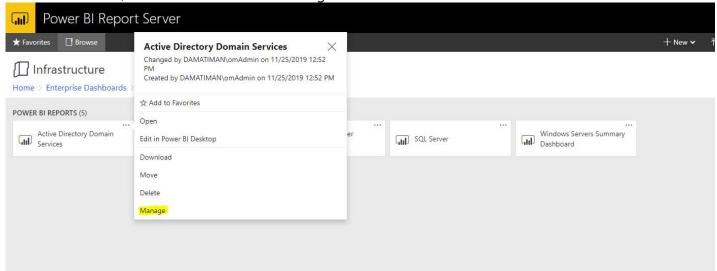


Step 6: Configure Data Source Settings

Data Sources does not have the real time information as it need to be configured after we published the dashboards. to do that, follow below steps:

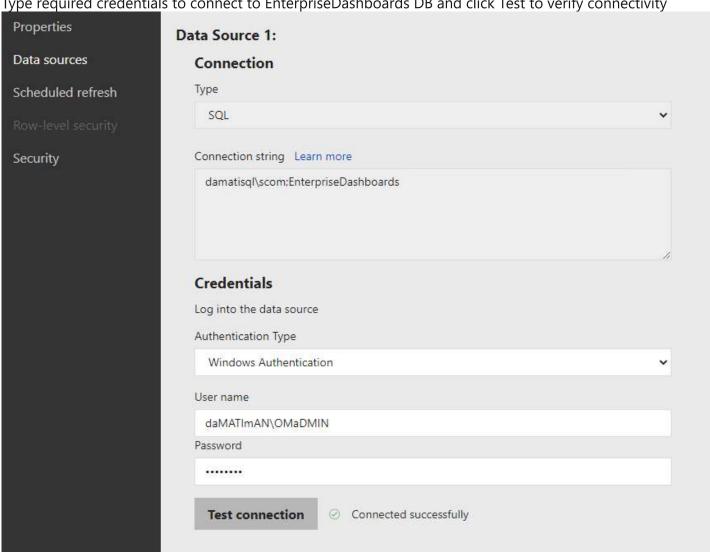
1. On Power BI Report Server Web URL, Browse to Dashboard file location [DON'T OPEN IT].

2. On the file corner, click on "..." and select Manage

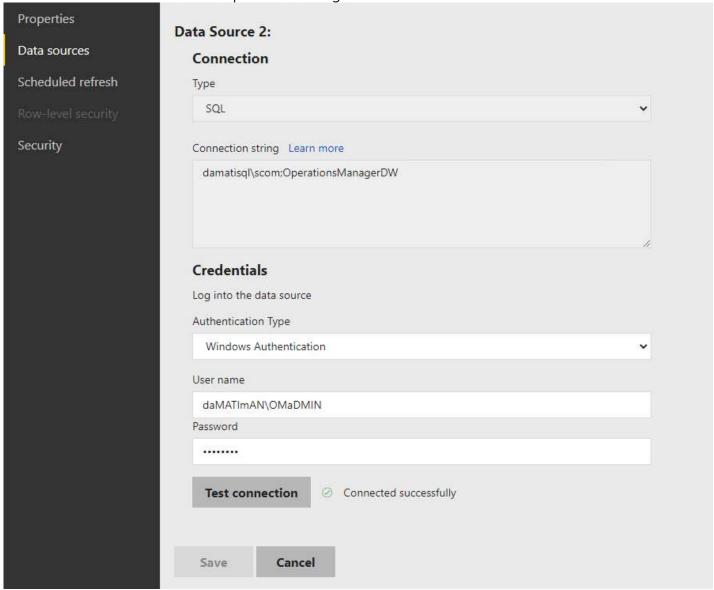


3. In Manage Tab, Select Data Sources

4. Type required credentials to connect to EnterpriseDashboards DB and click Test to verify connectivity



5. scroll down and do the same for OperationsManagerDW Database.



6. Confirm Test Connection is successful and click Save