

Windows Cluster Services Dashboard

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Introduction

This guide will take you through the steps of deploying and configuring Enterprise Dashboards for Windows Cluster Services

Getting Started

There are actions must be done before creating 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 Windows Cluster Services Management Pack (2013 or 2016)
6. Import Windows Servers Core OS Dashboard as some components depends on it.

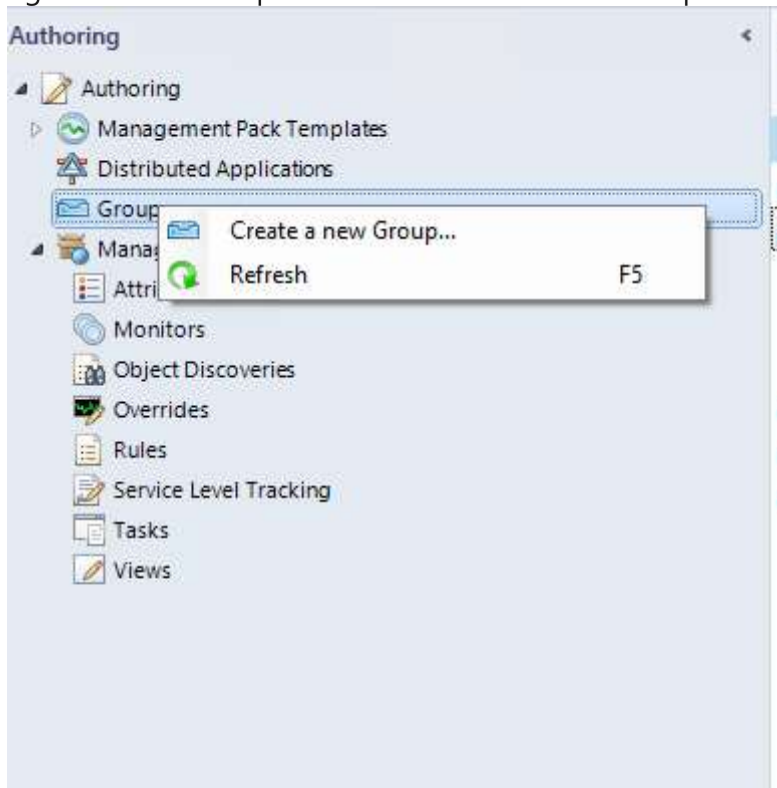
Windows Cluster Service Enterprise Dashboard Deployment

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 SharePoint Server Dashboard the scope group name is **Cluster 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 "**Cluster 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**

The screenshot shows the 'Create Group Wizard' dialog box, specifically the 'Explicit Members' page. The title bar reads 'Create Group Wizard'. The main header area says 'Choose Members from a List'. On the left, a sidebar lists the wizard steps: 'General Properties', 'Explicit Members' (which is selected and highlighted in blue), 'Dynamic Members', 'Subgroups', and 'Excluded Members'. The main content area is titled 'Explicit Group Members (optional)' and contains the instruction 'Choose specific objects that will be members of this group.' Below this is a button labeled 'Add/Remove Objects...'. Underneath the button is a table header for 'Group members:' with columns 'Name', 'Path', and 'Full Name'. The table body is currently empty. In the top right corner of the main area is a 'Help' icon. At the bottom right of the dialog are four buttons: '< Previous', 'Next >', 'Create', and 'Cancel'.

Create Group Wizard

Choose Members from a List

General Properties
Explicit Members
Dynamic Members
Subgroups
Excluded Members

Help

Explicit Group Members (optional)

Choose specific objects that will be members of this group.

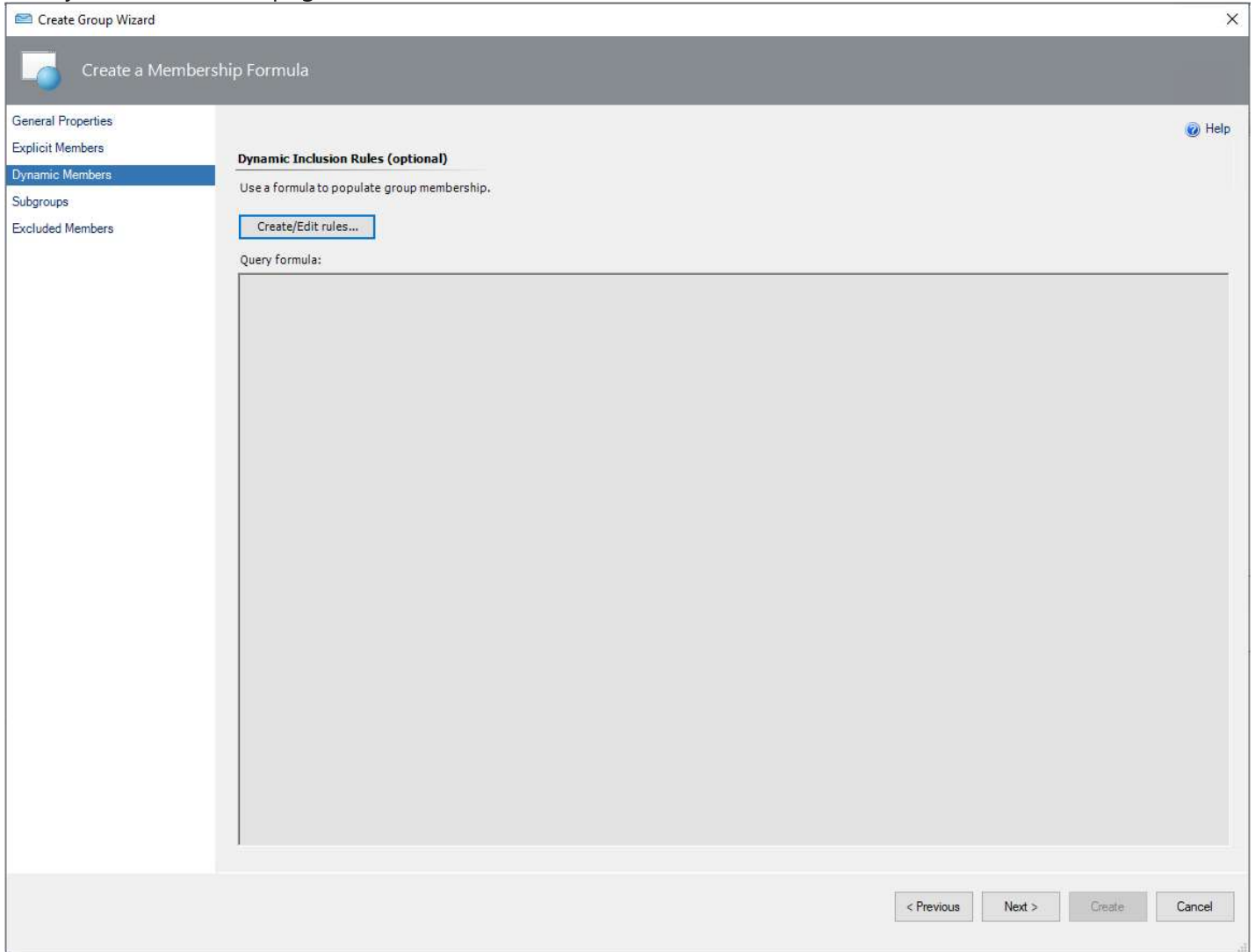
Add/Remove Objects...

Group members:

Name	Path	Full Name
------	------	-----------

< Previous Next > Create Cancel

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



7. Add Following Classes by selecting **class name** and then **Insert**

- a. Window Cluster
- b. Monitoring Cluster Service
- c. Cluster Disk
- d. Cluster Network
- e. Cluster Node
- f. Cluster Resource Group
- g. Cluster Shared Volume
- h. Cluster Node Role

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**

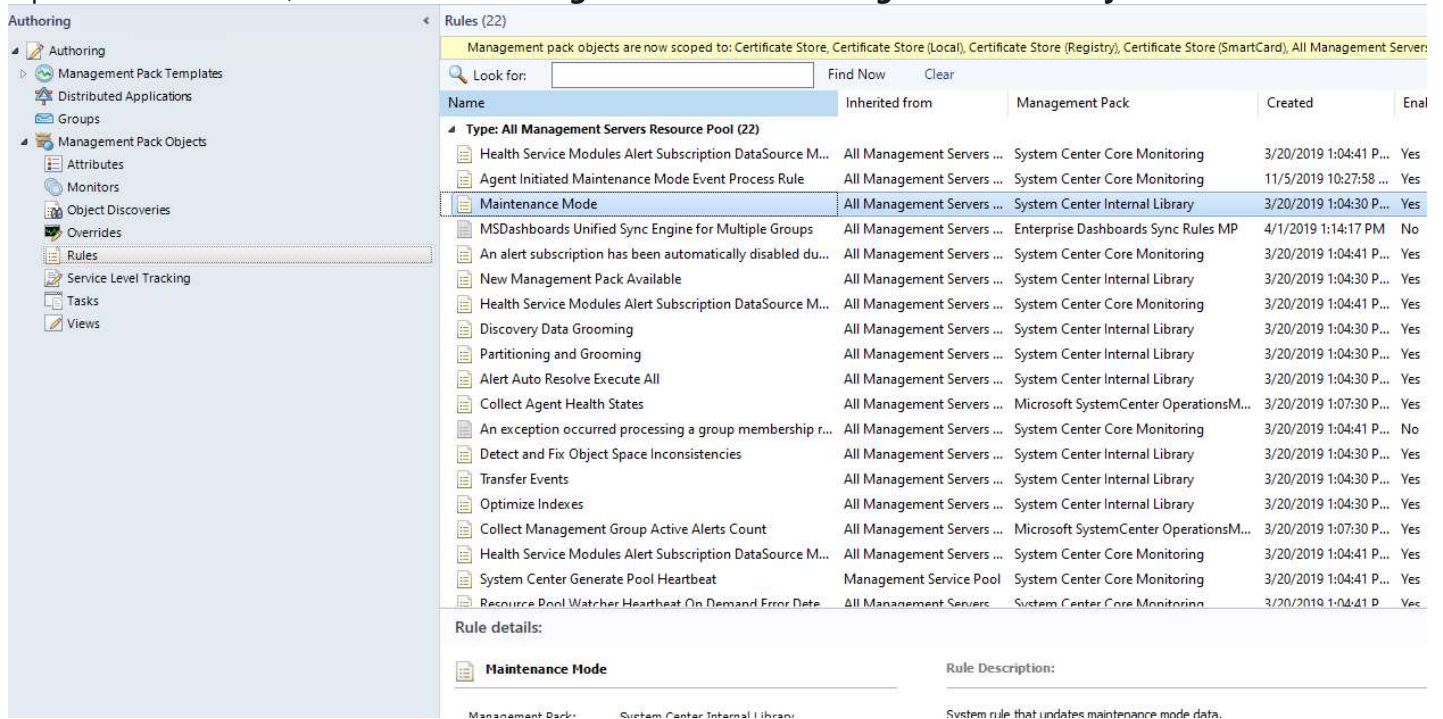
10. Confirm Group members includes all objects that were mentioned in dynamic rules.

Step 2: Modify Sync Rule

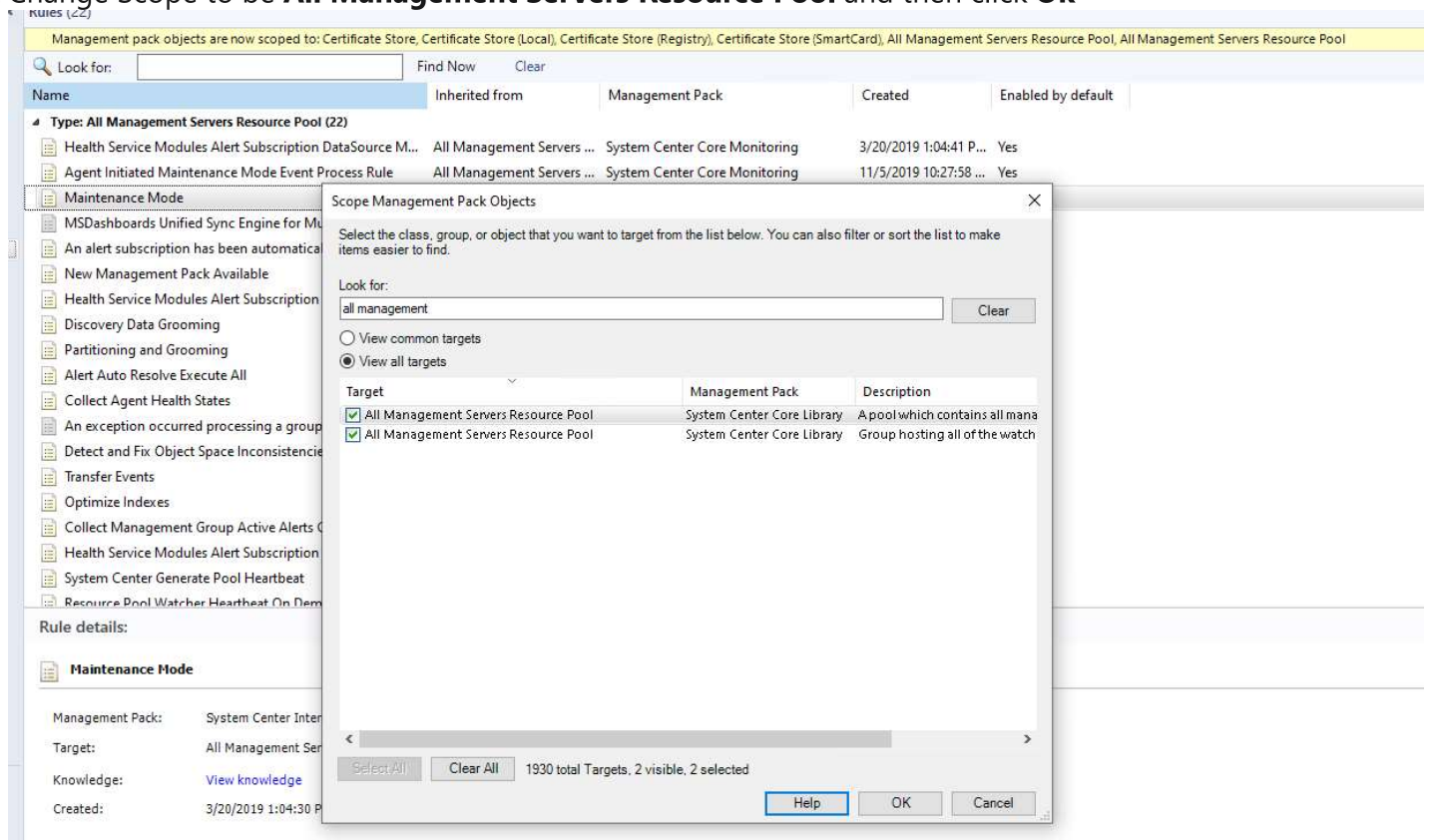
Enterprise Dashboards sync rule need to be modified to include new group created. the sync rule later, will start populating group members state information to EnterpriseDashbaord Database. follow below steps to add

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**

Name	Inherited from	Management Pack	Created	Enabled by default
Type: All Management Servers Resource Pool (22)				
Health Service Modules Alert Subscription DataSource M...	All Management Servers ...	System Center Core Monitoring	3/20/2019 1:04:41 P...	Yes
Agent Initiated Maintenance Mode Event Process Rule	All Management Servers ...	System Center Core Monitoring	11/5/2019 10:27:58 ...	Yes
Maintenance Mode	All Management Servers ...	System Center Internal Library	3/20/2019 1:04:30 P...	Yes
MSDashboards Unified Sync Engine for Multiple Groups	All Management Servers ...	Enterprise Dashboards Sync Rules MP	4/1/2019 1:14:17 PM	No
An alert subscription has been automatical	Servers ...	System Center Core Monitoring	3/20/2019 1:04:41 P...	Yes
New Management Pack Available	Servers ...	System Center Internal Library	3/20/2019 1:04:30 P...	Yes
Health Service Modules Alert Subscription	Servers ...	System Center Core Monitoring	3/20/2019 1:04:41 P...	Yes
Discovery Data Grooming	Servers ...	System Center Internal Library	3/20/2019 1:04:30 P...	Yes
Partitioning and Grooming	Servers ...	System Center Internal Library	3/20/2019 1:04:30 P...	Yes
Alert Auto Resolve Execute All	Servers ...	System Center Internal Library	3/20/2019 1:04:30 P...	Yes
Collect Agent Health States	Servers ...	System Center Internal Library	3/20/2019 1:04:30 P...	Yes
An exception occurred processing a group	Servers ...	System Center Internal Library	3/20/2019 1:04:30 P...	Yes
Detect and Fix Object Space Inconsistencies	All Management Servers ...	System Center Internal Library	3/20/2019 1:04:30 P...	Yes
Transfer Events	All Management Servers ...	System Center Internal Library	3/20/2019 1:04:30 P...	Yes
Optimize Indexes	All Management Servers ...	System Center Internal Library	3/20/2019 1:04:30 P...	Yes
Collect Management Group Active Alerts Count	All Management Servers ...	Microsoft SystemCenter OperationsM...	3/20/2019 1:07:30 P...	Yes
Health Service Modules Alert Subscription DataSource M...	All Management Servers ...	System Center Core Monitoring	3/20/2019 1:04:41 P...	Yes
System Center Generate Pool Heartbeat	Management Service Pool	System Center Core Monitoring	3/20/2019 1:04:41 P...	Yes
Resource Pool Watcher Heartbeat On Demand Error Data	All Management Servers ...	System Center Core Monitoring	3/20/2019 1:04:41 P...	Yes

4. In Override Rule properties, Ensure the following overrides enabled:
 - a. **Enabled** = True
 - b. **GroupList** includes "Cluster Dashboard Group"
 - c. **SQLServer** = <SQL Instance hosting EnterpriseDashboards Database>
5. Click on **Ok**

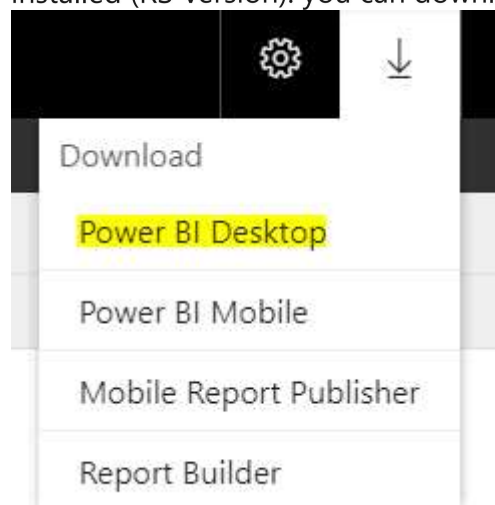
Step 3: Confirm Group populates information to EnterpriseDashboard Database

After 5 minute, new tables should be created in EnterpriseDashboards Database.

1. Using SQL Management Studio, Open EnterpriseDashboard Database and expand Tables.
2. Check if ClusterDashboardGroup_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 permissions.



1. Download Windows Cluster Services Dashboard Power BI Template
[Windows Cluster Services.zip](#)
2. Open Template file
3. Insert required parameters then click Load.

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Windows Servers Dashboard

System Center Enterprise Dashbaords - Windows Server Core OS

SCED_Server ⓘ

SCED_DB ⓘ

OMDW_Server ⓘ

OMDW_DB ⓘ

Language

SCOM_WebConsole ⓘ

Load ▾

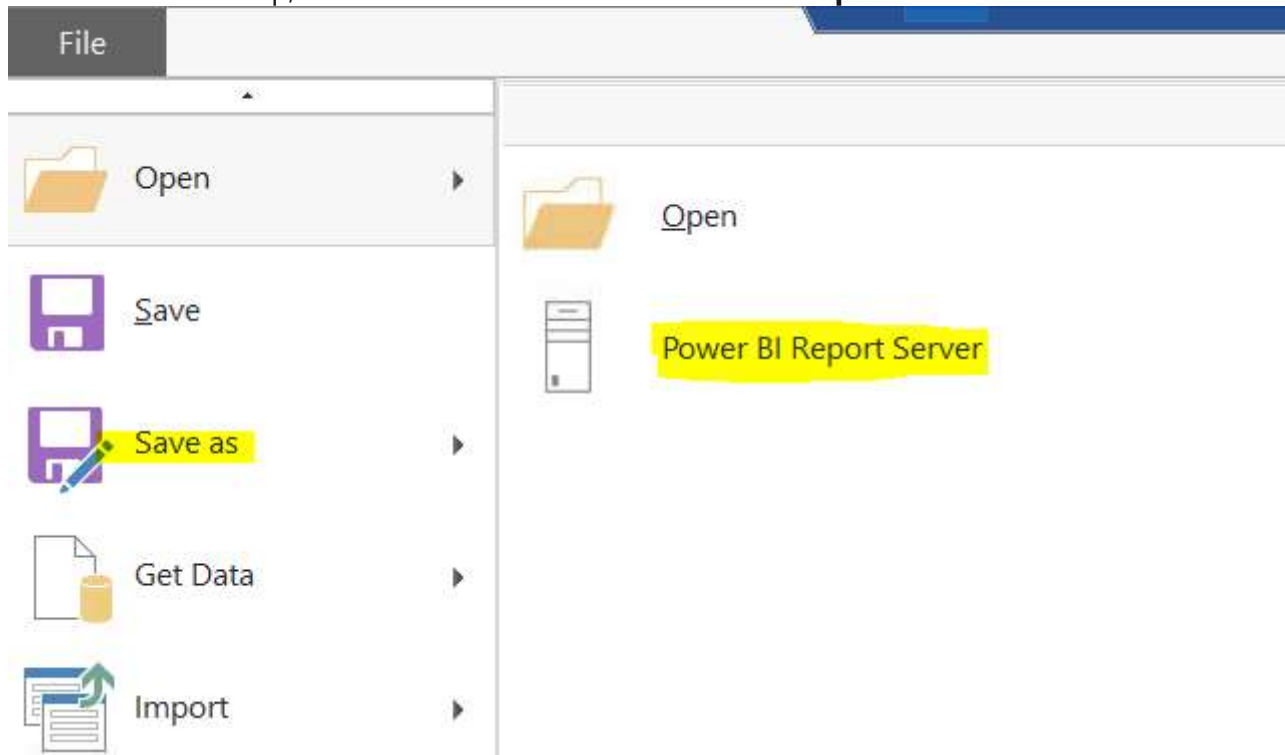
Cancel

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

1. On Power BI Desktop, select **File** --> **Save As** --> **Power BI Report Server**



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

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Power BI Report Server Selection

Choose the report server you would like to open your report from. You can select from the recent report server list or enter a new report server address.

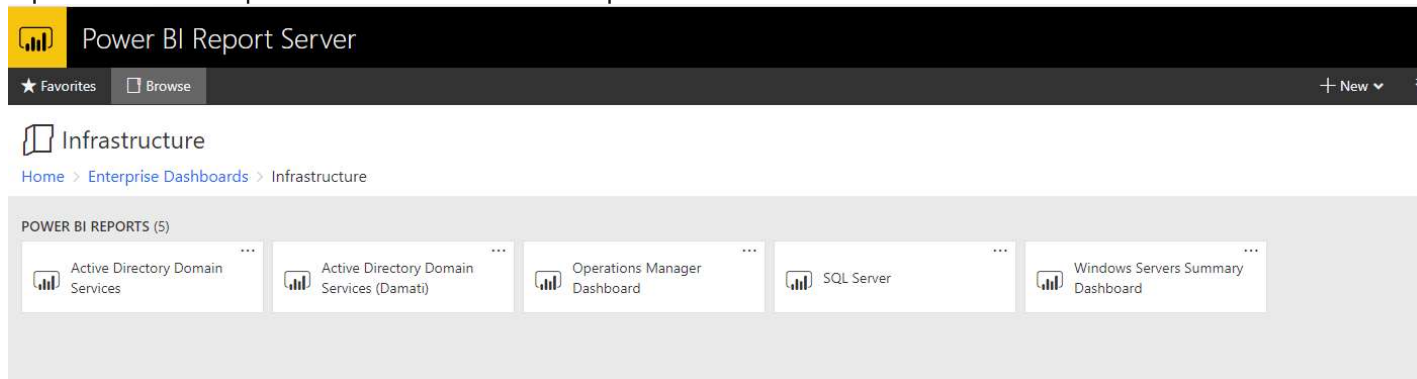
Recent report servers

New report server address (Example: <http://reportserver/reports> or <https://reportserver/reports>)

OK

Cancel

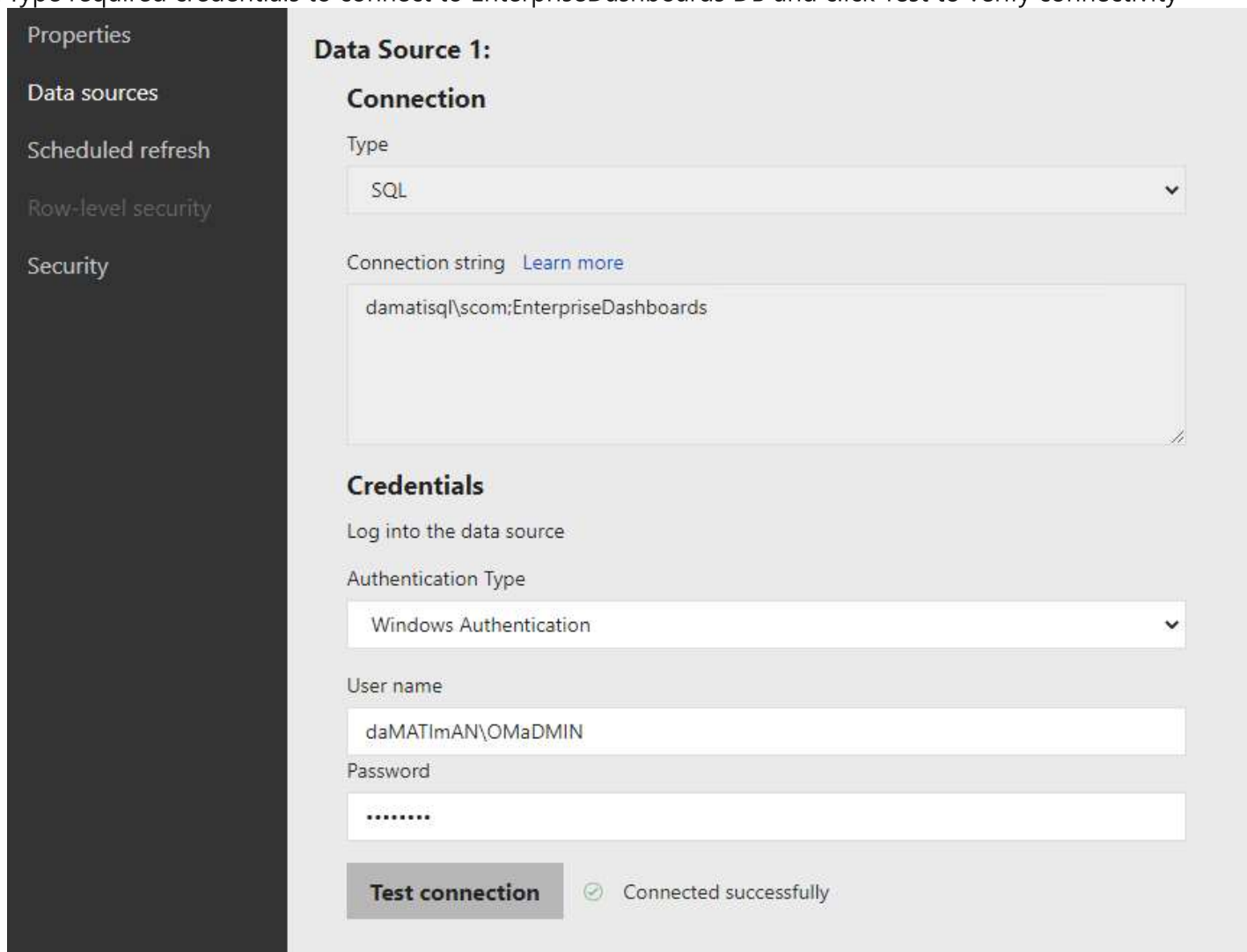
3. Open Power BI Report Server URL and Select published Dashboard



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.

Data Source 2:

Connection

Type: SQL

Connection string: [Learn more](#)
damatisql\scom;OperationsManagerDW

Credentials

Log into the data source

Authentication Type: Windows Authentication

User name: daMATImAN\OMaDMIN

Password:

Test connection Connected successfully

Save **Cancel**

6. Confirm Test Connection is successful and click **Save**