# **MS Exchange Server**

Last updated by | Mohamad Damati | Dec 23, 2020 at 3:17 PM GMT+3

#### Contents

- Introduction
  - Getting Started
  - Prerequisites
  - Microsoft Exchange Server Dashboard Deployment
    - Step 1: Import Exchange Queue and Mail flow Manageme...
    - Step 2: Create Dashboard Group
    - Step 3: Modify Sync Rule
    - Step 4: Confirm Group populates information to Enterprise...
    - Step 5: Import Dashboard Template File
    - Step 6: Save Dashboard to Power BI Report Server
    - Step 7: Configure Data Source Settings

## Introduction

This guide will take you through the steps of deploying and configuring Enterprise Dashboards for Microsoft Exchange Server. Dashboard will contain state and performance information about Exchange Server Components monitored in System Center Operations Manager

# **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 Microsoft Exchange Server Management Pack
- 6. Import Windows Servers Core OS Dashboard as some components depends on it.

# Microsoft Exchange Server Dashboard Deployment

Use the following steps to deploy Dashboard.

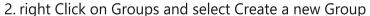
### **Step 1: Import Exchange Queue and Mail flow Management Pack**

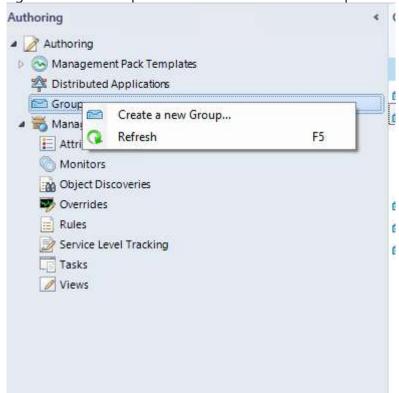
This Management Pack will add new rule in SCOM to collect Exchange Mail Flow (Mails Sent/Received). This is essential part of exchange dashboard. please download and import to SCOM below Management Pack <a href="mailto:EnterpriseDashboard.Exchange.Queue.Monitoring.zip">EnterpriseDashboard.Exchange.Queue.Monitoring.zip</a>

## **Step 2: Create Dashboard Group**

Enterprise Dashboards scope is defined based on Operations Manager Group for each workload, for Microsoft Exchange Server Dashboard the scope group name is **EX Dashboard Group**.

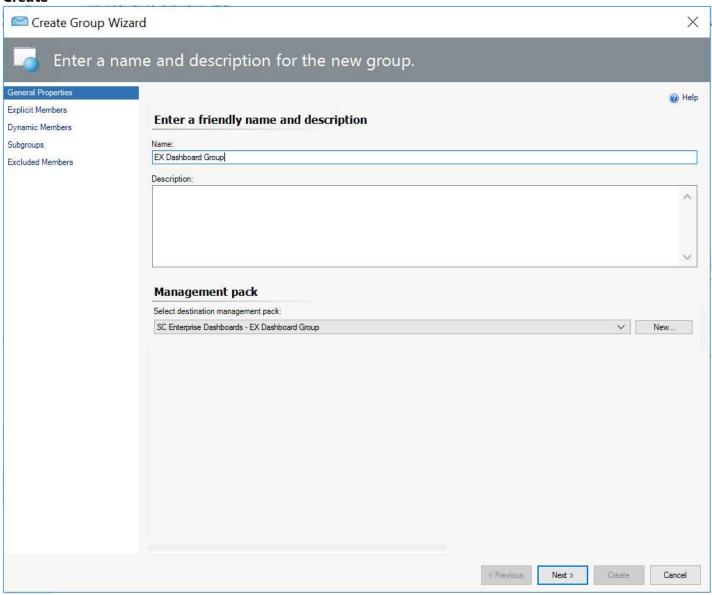
1. Open SCOM Console, browse to Authoring --> Groups





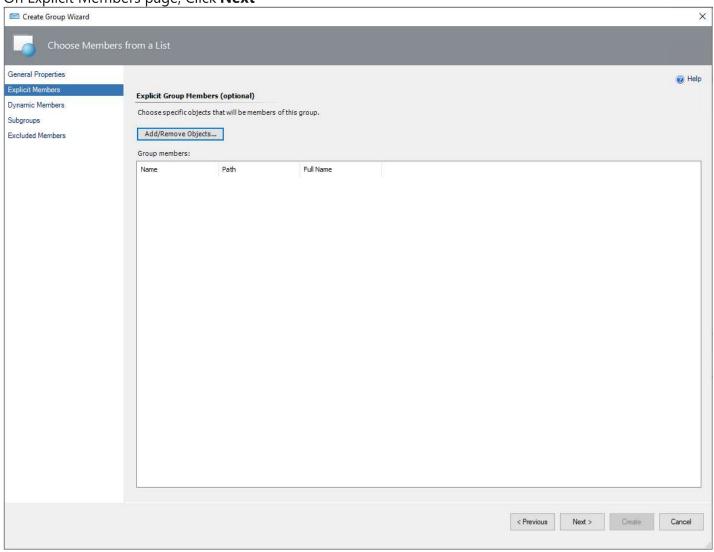
3. In Create Group Wizard, Type Group name "**EX Dashboard Group**" and in Management Pack destination, click on **New**. Create New management pack to save this group. click **Next** and in Knowledge Page click

#### **Create**

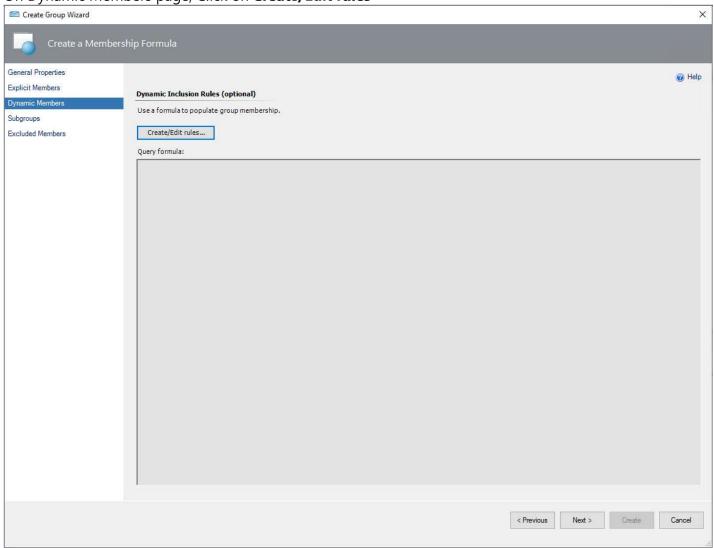


4. Verify Dashboard name and click Next

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



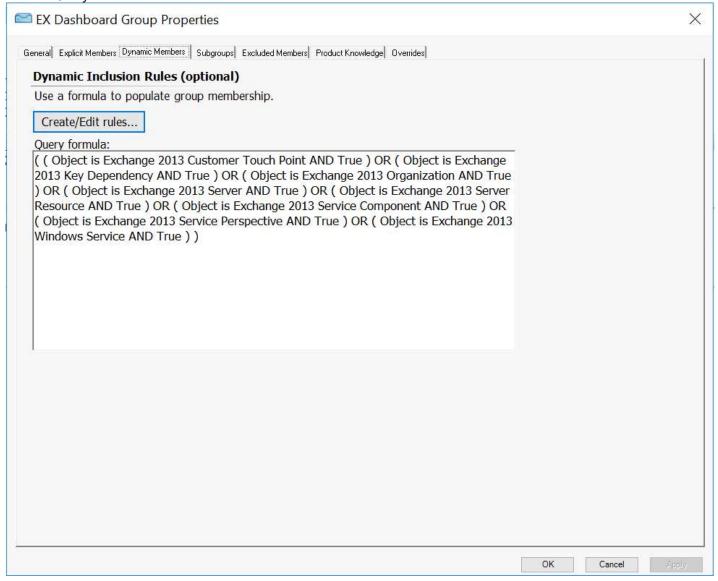
6. On Dynamic Members page, Click on Create/Edit rules



- 7. Add Following Classes by selecting class name and then Insert
  - a. Exchange 2013 Customer Touch Point
  - b. Exchange 2013 Key Dependency
  - c. Exchange 2013 Organization
  - d. Exchange 2013 Server
  - e. Exchange 2013 Server Resource
  - f. Exchange 2013 Service Component
  - g. Exchange 2013 Service Perspective
  - h. Exchange 2013 Windows Service

Then Click Ok

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

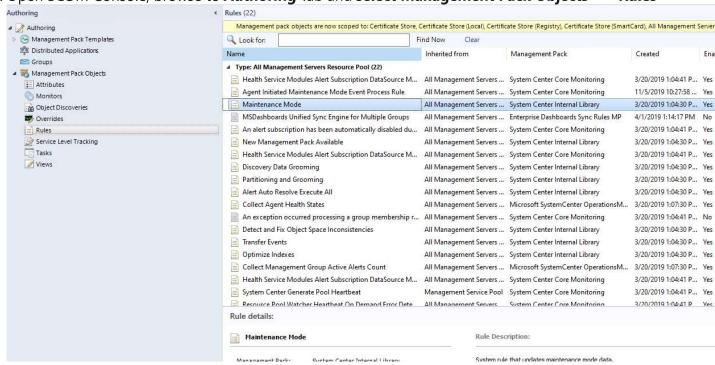


- 9. Find the Group created, right click on it and select **View Group Members**
- 10. Confirm Group members includes all objects that were mentioned in dynamic rules.

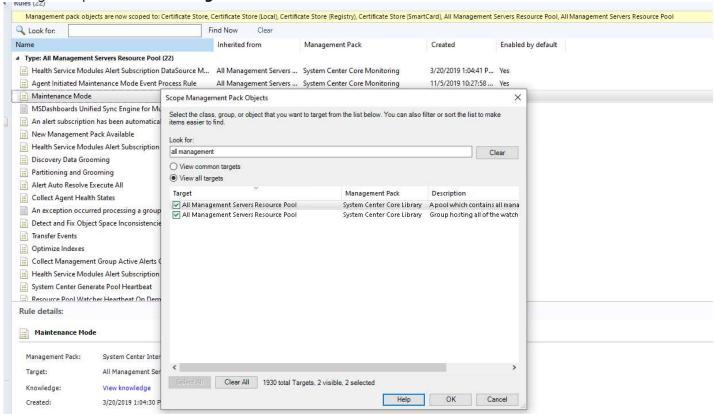
#### **Step 3: Modify Sync Rule**

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

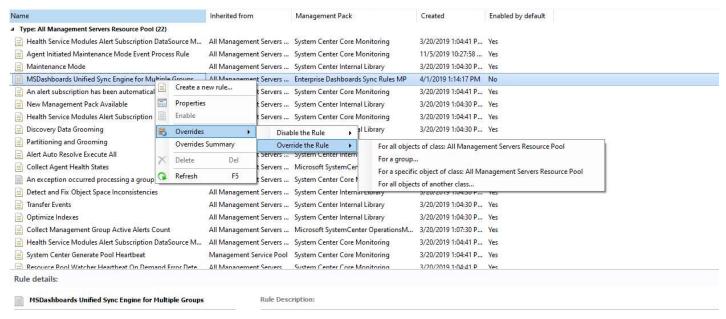
1. Open SCOM Console, browse to Authoring Tab and select Management Pack Objects --> Rules



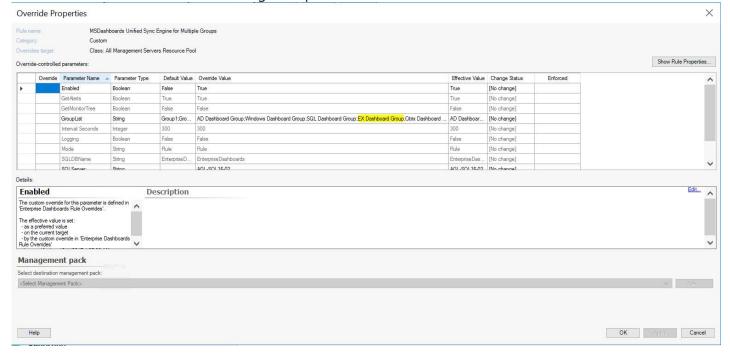
2. Change Scope to be **All Management Servers Resource Pool** and then click **Ok** 



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 "EX Dashboard Group"
  - c. **SQLServer** = <SQL Instance hosting EnterpriseDashboards Database>



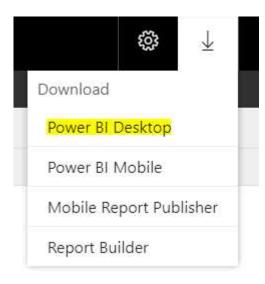
5. Click on **Ok** 

#### Step 4: Confirm Group populates information to EnterpriseDashboard Database

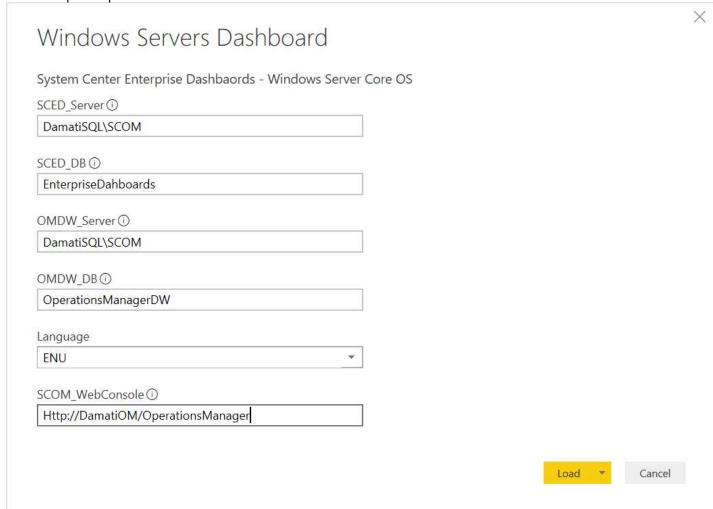
- 1. Using SQL Management Studio, Open EnterpriseDashboard Database and exand Tables.
- 2. Check if [dbo].[EXDashboardGroup\_Statedata] table is created.
- 3. Right click on the table and click on Select Top 1000 Rows. confirm results.

#### **Step 5: 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.



- Download MS Exchange Power BI Template <u>MS Exchange Dashboard.zip</u>
- 2. Open Template file
- 3. Insert required parameters then click Loadnotes

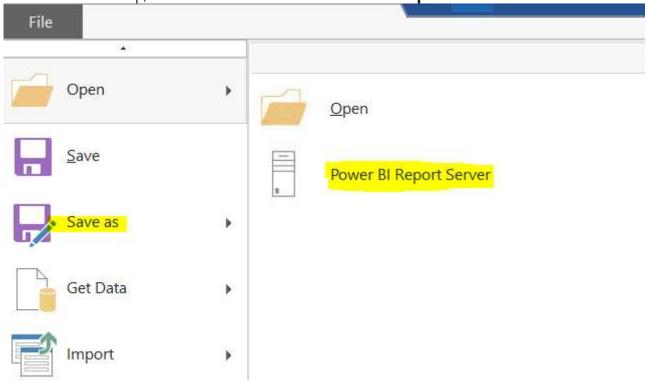


- 4. Dashboard will start connecting to Operations Manager Databases and load required information to build visulizations
- 5. Finally, you will have the dashboard running

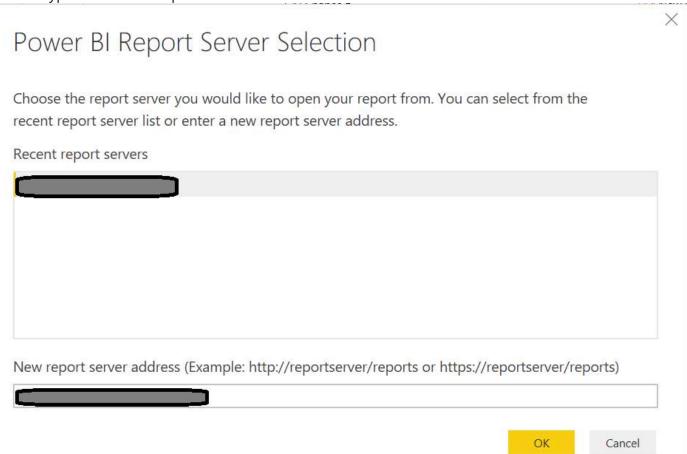
## **Step 6: Save Dashboard to Power BI Report Server**

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

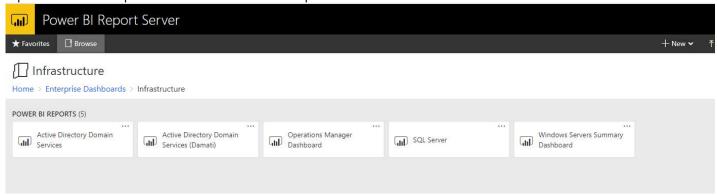
1. On Power BI Desktop, select File --> Save As --> Power BI Report Server



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



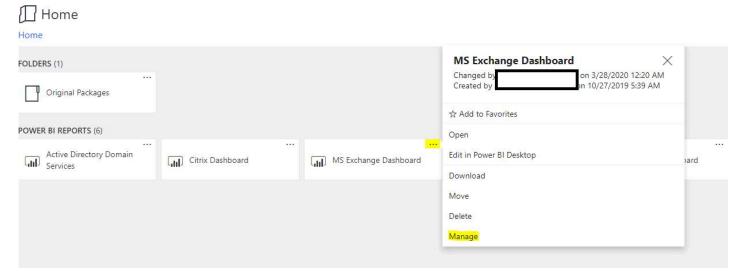
3. Open Power BI Report Server URL and Select published Dashboard



## **Step 7: Configure Data Source Settings**

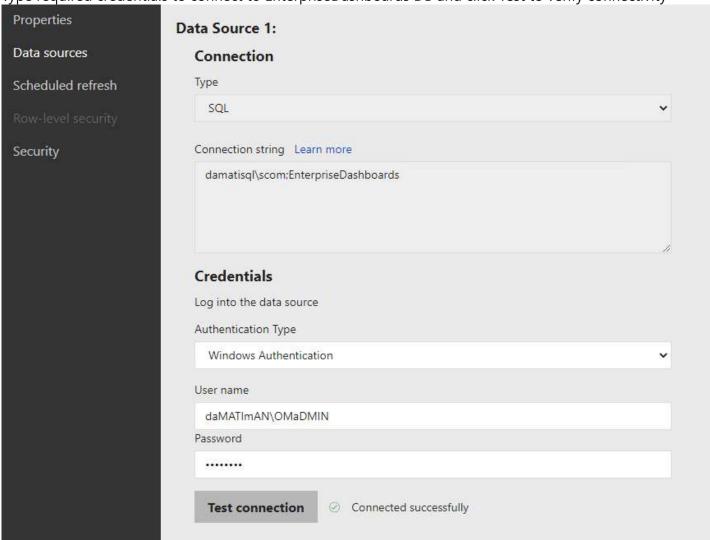
Data Sources does not have the real time information as it need to be configured after we published the dashboards. to do that, follow below steps:

- 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

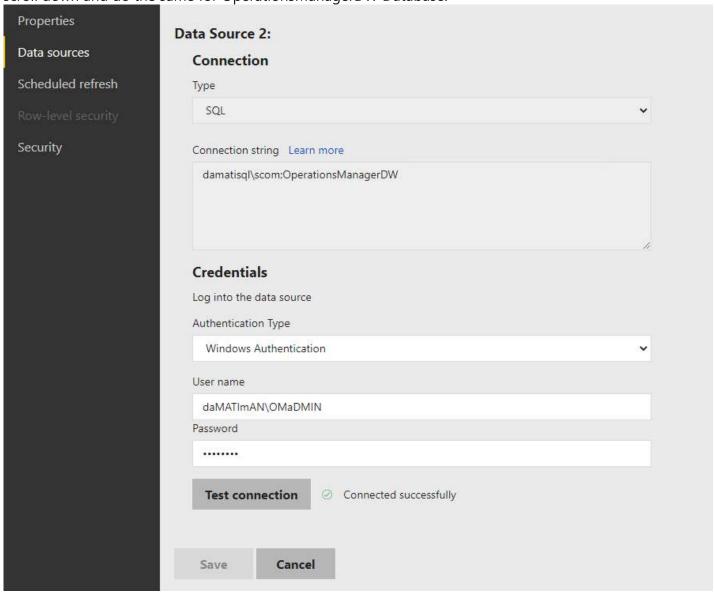


3. In Manage Tab, Select Data Sources

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