

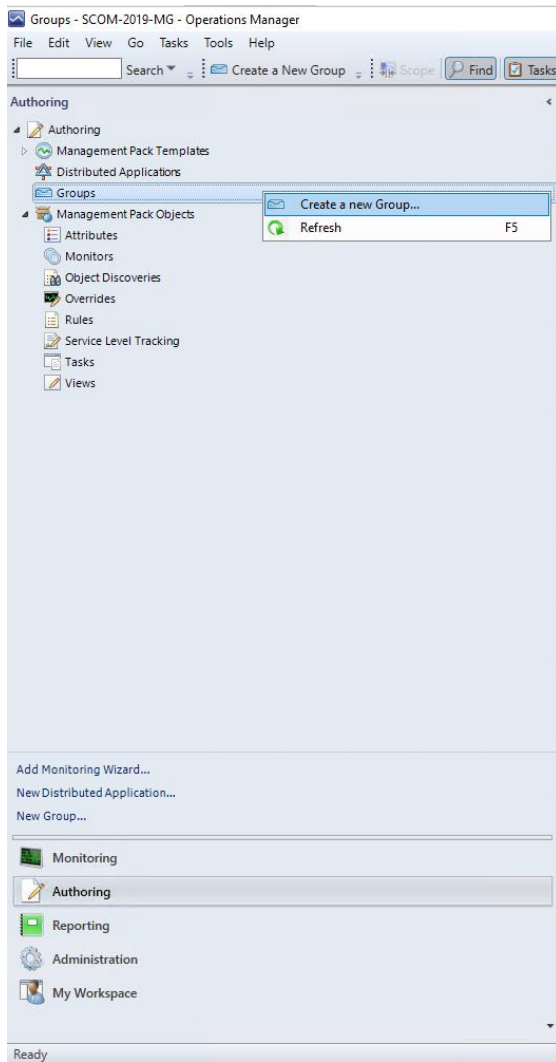
## STEP-BY-STEP TO ADD HEALTH SERVICE WATCHER TO A DYNAMIC GROUP

By: Blake Drumm <blakedrumm@microsoft.com>

### CREATE THE GROUP

1. Open the SCOM Console,  
Go to Authoring Tab -> Right Click on Groups ->

#### Create a new Group..

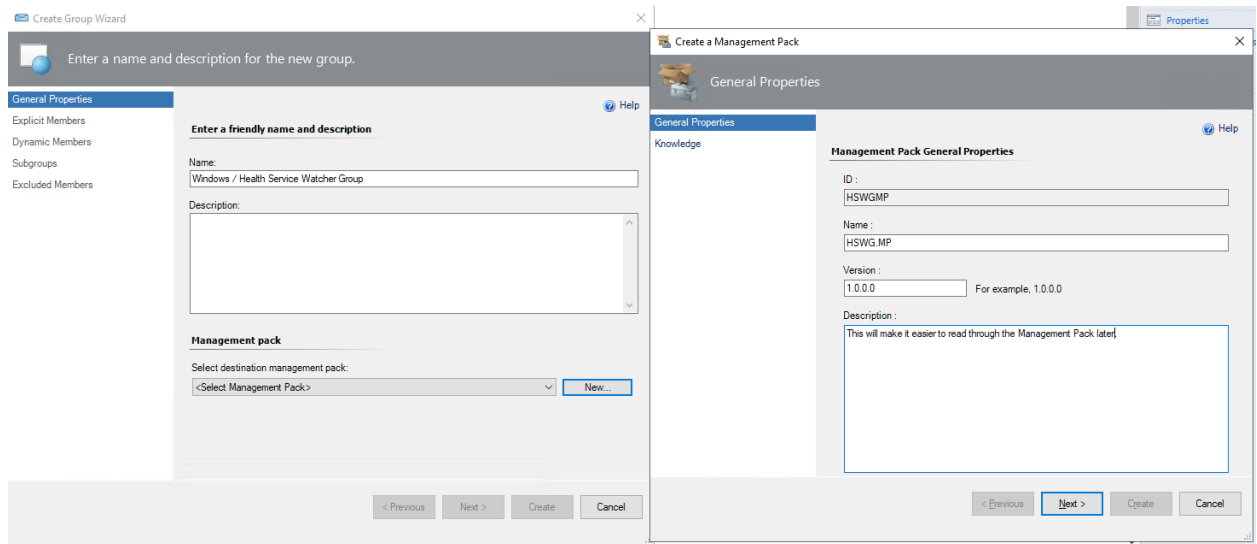


2. Type the name for the Group, in this example we are using:  
Group Name: **Windows / Health Service Watcher Group**
3. For this example lets separate this Group from the other Management Packs, select the **New...** Button:  
MP Name: **HSWG.MP**

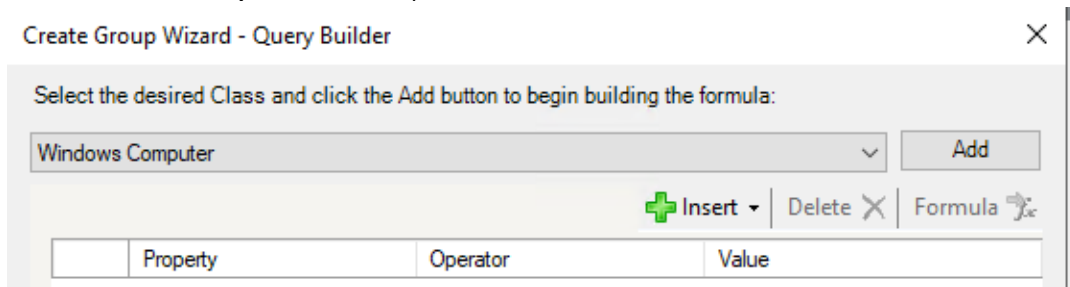
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a. Create the Management Pack



4. Select the **Next >** button until you get to the Dynamic Members page.
5. Select **Create/Edit rules...**
6. Select **Windows Computer** in the drop down and click the **Add** button:



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- Click on the drop down under Property -> Select Display Name -> Contains -> Type your naming scheme in the Value field (my Management Servers are named MS01-2019, etc):

Create Group Wizard - Query Builder

Select the desired Class and click the Add button to begin building the formula:

Windows Computer

Add

+ Insert | Delete X | Formula

	Property	Operator	Value
	AND group for Windows Computer (all of these are true)		
▶	Display Name	Contains	MS0

OK Cancel

- Click on the top drop down again which says Windows Computer and Select Health Service Watcher, select Add:

Create Group Wizard - Query Builder

Select the desired Class and click the Add button to begin building the formula:

Health Service Watcher

Add

+ Insert | Delete X | Formula

	Property	Operator	Value
	OR group (any of these is true)		
	AND group for Windows Computer (all of these are true)		
	Display Name	Contains	MS0
	AND group for Health Service Watcher (all of these are true)		
▶			

OK Cancel

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9. Select Display Name -> Contains -> in the Value field type the Management Server naming scheme:

Property	Operator	Value
OR group (any of these is true)		
AND group for Windows Computer (all of these are true)		
Display Name	Contains	MS0
AND group for Health Service Watcher (all of these are true)		
Display Name	Contains	MS0

10. Select the **OK** button.
11. Press Next button until the last page, then select the **Create** button:

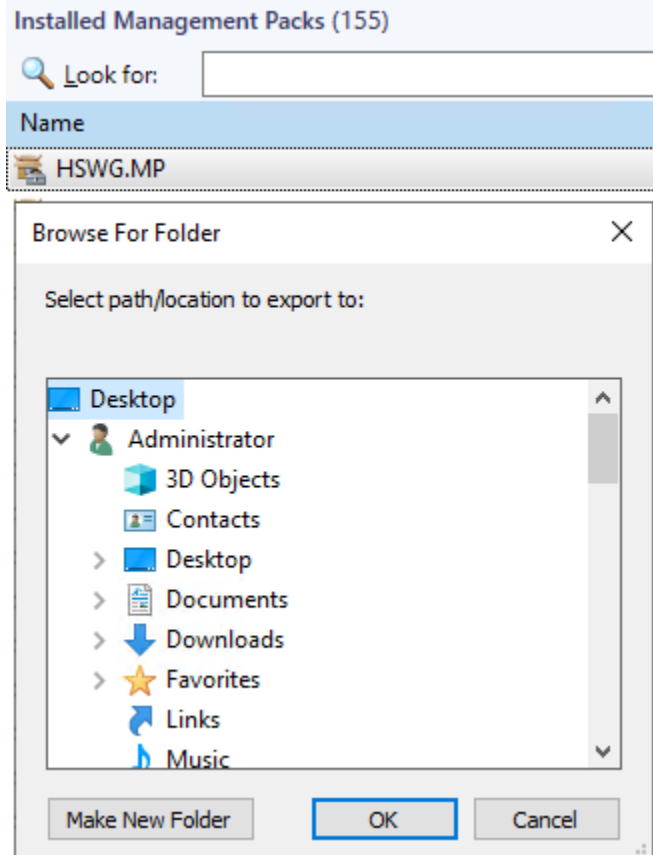
The screenshot shows the 'Create Group Wizard' window, specifically the 'Specify Exclude List' page. The window has a title bar 'Create Group Wizard' and a close button. On the left is a sidebar with navigation links: 'General Properties', 'Explicit Members', 'Dynamic Members', 'Subgroups', and 'Excluded Members' (which is selected). The main area is titled 'Specify Exclude List' and contains a section 'Exclude Objects from this group (optional)' with the instruction 'Choose specific objects to exclude from this group.' Below this is an 'Exclude Objects...' button. Underneath is a table for 'Excluded objects:' with columns 'Name', 'Path', and 'Full Name'. At the bottom of the window are four buttons: '< Previous', 'Next >', 'Create', and 'Cancel'.

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### EXPORT THE MANAGEMENT PACK & MODIFY THE MANAGEMENT PACK

1. Go to **Installed Management Packs** and find the Management pack you selected and export it:



2. Go to the Management Pack export location and open the Management Pack with your favorite Editor, I am using Notepad++.
3. Find the following section in your MP, the names may be slightly different:

```
<MembershipRule>
<MonitoringClass>$MPElement[Name="SystemCenter!Microsoft.SystemCenter.HealthServiceWatcher"]$</MonitoringClass>
<RelationshipClass>$MPElement[Name="MicrosoftSystemCenterInstanceGroupLibrary7585010!Microsoft.SystemCenter.InstanceGroupContainsEntities"]$</RelationshipClass>
<Expression>
<RegExExpression>
<ValueExpression>
<Property>$MPElement[Name="SystemLibrary7585010!System.Entity"]/DisplayName$</Property>
</ValueExpression>
<Operator>ContainsSubstring</Operator>
<Pattern>MS0</Pattern>
</RegExExpression>
</Expression>
</MembershipRule>
```

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4. Replace the found section above with the following:

```
<MembershipRule>
<MonitoringClass>$MPElement[Name="SystemCenter!Microsoft.SystemCenter.HealthServiceWatcher"]$</MonitoringClass>
<RelationshipClass>$MPElement[Name="MicrosoftSystemCenterInstanceGroupLibrary7585010!Microsoft.SystemCenter.InstanceGroupContainsEntities"]$</RelationshipClass>
<Expression>
<Contains>
<MonitoringClass>$MPElement[Name="SystemCenter!Microsoft.SystemCenter.HealthService"]$</MonitoringClass>
<Expression>
<Contained>
<MonitoringClass>$MPElement[Name="UINameSpacee827aff4527146e3a9831a0f6b9685a4.Group"]$</MonitoringClass>
</Contained>
</Expression>
</Contains>
</Expression>
</MembershipRule>
```

5. Look for the <GroupInstanceId> right above the <MembershipRules> section

```
<GroupInstanceId>$MPElement[Name="UINameSpacea6430de2547e41b983062ceae1804a80.Group"]$</GroupInstanceId>
<MembershipRules>
```

6. Replace the <MonitoringClass> with the GroupInstanceId from step 5:

```
<MembershipRules>
<MembershipRule>
<MonitoringClass>$MPElement[Name="MicrosoftWindowsLibrary7585010!Microsoft.Windows.Computer"]$</MonitoringClass>
<RelationshipClass>$MPElement[Name="MicrosoftSystemCenterInstanceGroupLibrary7585010!Microsoft.SystemCenter.InstanceGroupContainsEntities"]$</RelationshipClass>
<Expression>
<RegexExpression>
<ValueExpression>
<Property>$MPElement[Name="SystemLibrary7585010!System.Entity"]/DisplayName$</Property>
</ValueExpression>
<Operator>ContainsSubstring</Operator>
<Pattern>MS0</Pattern>
</RegexExpression>
</Expression>
</MembershipRule>
<MembershipRule>
<MonitoringClass>$MPElement[Name="SystemCenter!Microsoft.SystemCenter.HealthServiceWatcher"]$</MonitoringClass>
<RelationshipClass>$MPElement[Name="MicrosoftSystemCenterInstanceGroupLibrary7585010!Microsoft.SystemCenter.InstanceGroupContainsEntities"]$</RelationshipClass>
<Expression>
<Contains>
<MonitoringClass>$MPElement[Name="SystemCenter!Microsoft.SystemCenter.HealthService"]$</MonitoringClass>
<Expression>
<Contained>
<MonitoringClass>$MPElement[Name="UINameSpacea6430de2547e41b983062ceae1804a80.Group"]$</MonitoringClass>
</Contained>
</Expression>
</Contains>
</Expression>
</MembershipRule>
</MembershipRules>
```

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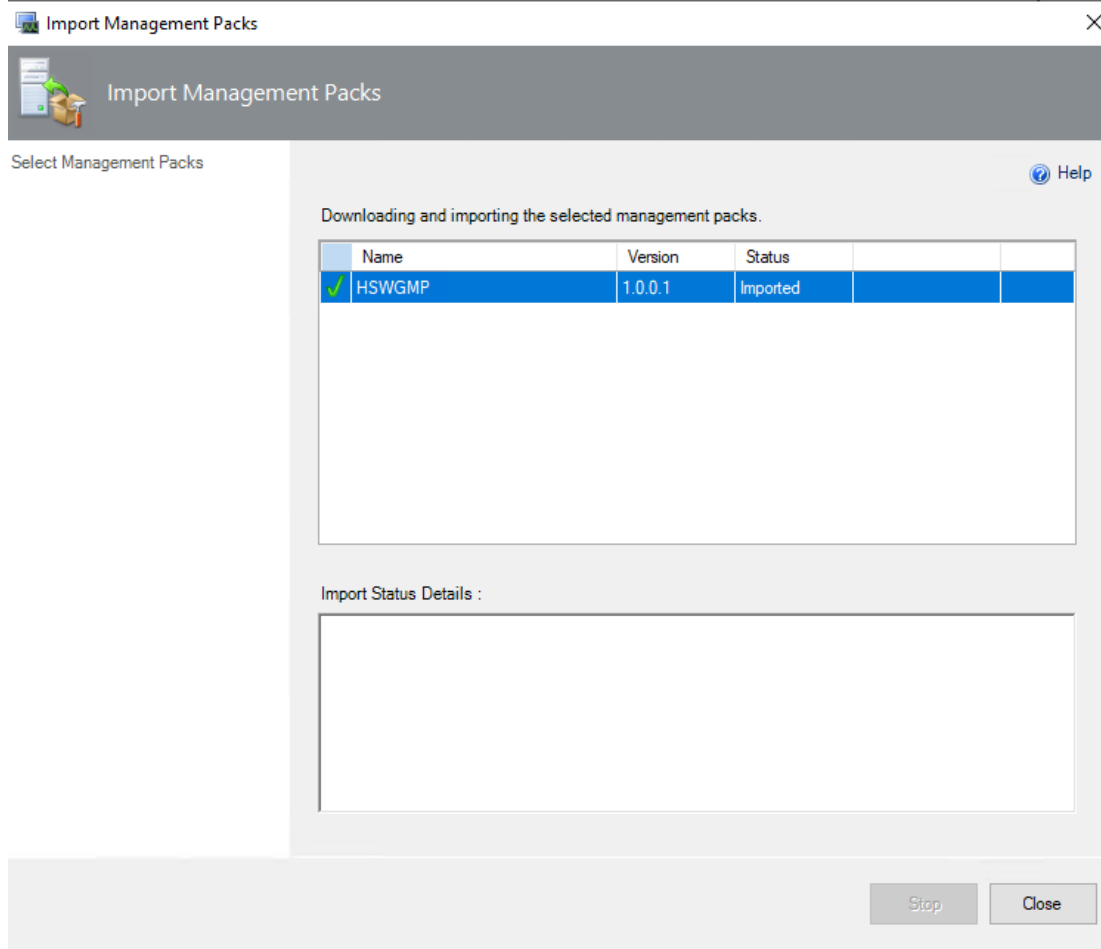
- You may also need to replace the <RelationshipClass> *MicrosoftSystemCenterInstanceGroupLibrary* with the same <RelationshipClass> from the 1st <MembershipRule>:

```
<MembershipRule>
  <MembershipRule>
    <MonitoringClass>$MPElement[Name="MicrosoftWindowsLibrary7585010!Microsoft.Windows.Computer"]$</MonitoringClass>
    <RelationshipClass>$MPElement[Name="MicrosoftSystemCenterInstanceGroupLibrary7585010!Microsoft.SystemCenter.InstanceGroupContainsEntities"]$</RelationshipClass>
    <Expression>
      <RegExExpression>
        <ValueExpression>
          <Property>$MPElement[Name="SystemLibrary7585010!System.Entity"]/DisplayName$</Property>
        </ValueExpression>
        <Operator>ContainsSubstring</Operator>
        <Pattern>MSO</Pattern>
      </RegExExpression>
    </Expression>
  </MembershipRule>
  <MembershipRule>
    <MonitoringClass>$MPElement[Name="SystemCenter!Microsoft.SystemCenter.HealthServiceWatcher"]$</MonitoringClass>
    <RelationshipClass>$MPElement[Name="MicrosoftSystemCenterInstanceGroupLibrary7585010!Microsoft.SystemCenter.InstanceGroupContainsEntities"]$</RelationshipClass>
    <Expression>
      <Contains>
        <MonitoringClass>$MPElement[Name="SystemCenter!Microsoft.SystemCenter.HealthService"]$</MonitoringClass>
        <Expression>
          <Contained>
            <MonitoringClass>$MPElement[Name="UINameSpacea6430de2547e41b983062ceae1804a80.Group"]$</MonitoringClass>
          </Contained>
        </Expression>
      </Contains>
    </Expression>
  </MembershipRule>
</MembershipRules>
```

- Increment the Management Pack version on line 5:

```
<?xml version="1.0" encoding="utf-8" ?>
<ManagementPack ContentReadable="true" SchemaVersion="2.0" OriginalSchemaVersion="1.1" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/1999/XMLSchema" >
  <Manifest>
    <Identity>
      <ID>HSWGMP</ID>
      <Version>1.0.0.1</Version>
    </Identity>
    <Name>BSMG_MP</Name>
  </Manifest>
</ManagementPack>
```

- Save the Management Pack and Import the Management Pack:

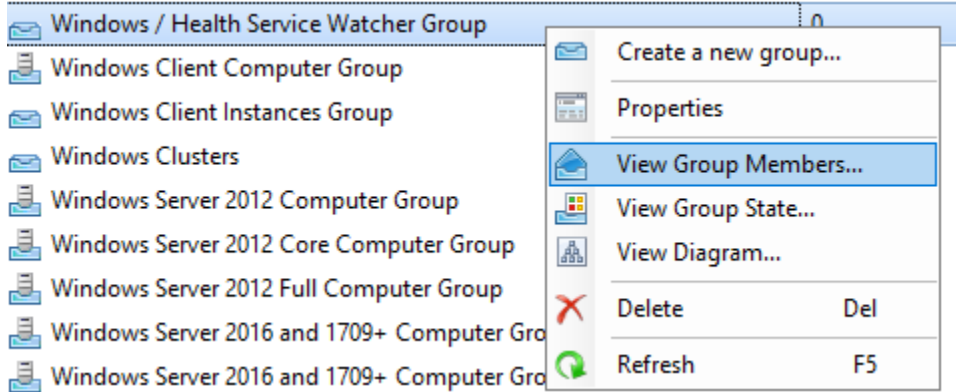


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### VERIFY THE OBJECTS ARE IN THE GROUP

1. Open the Authoring Panel -> Groups  
Find the Group you created,  
Right Click it, and go to **View Group Members**:



2. Finished your group should be populated!

The screenshot shows the 'Managed Objects' table in the SCOM console. The table has columns for 'Name', 'Health State', 'Path', and 'Types'. There are 6 objects listed, all with a 'Healthy' status.

Name	Health State	Path	Types
MS03-2019.contoso.com	Healthy		Lightweight Windows 2016 Server Computer; Windows Server 2016 Computer (F...
MS02-2019.contoso.com	Healthy		Windows Server 2016 Computer (Full); Lightweight Windows 2016 Server Compu...
MS01-2019.contoso.com	Healthy		Lightweight Windows 2016 Server Computer; Windows Server 2016 Computer (F...
MS03-2019.contoso.com	Healthy	Microsoft.SystemCenter.CollectionManagementServerWatcherGroup	Health Service Watcher (Collection Management Server)
MS01-2019.contoso.com	Healthy	Microsoft.SystemCenter.CollectionManagementServerWatcherGroup	Health Service Watcher (Collection Management Server)
MS02-2019.contoso.com	Healthy	Microsoft.SystemCenter.CollectionManagementServerWatcherGroup	Health Service Watcher (Collection Management Server)

