



Security Removable Media Manager

SCOM 2012

Administrator Guide

Version 9.9.13.0

(May 2019)

Protect your valuable data



secRMM SCOM Administrator Guide

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Squadra Technologies Excel AddIn Administrator Guide
Created - August 2011

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Introduction

Security Removable Media Manager (secRMM) is Windows security software that secures the use of smartphones, tablets, usb/flash drives and other removable media devices. secRMM integrates into Microsoft System Center Operations Manager (SCOM) by providing a SCOM Management Pack (MP) and SCOM reports. The secRMM reports can exist in either (or both) the SCOM run-time data warehouse database (**DW**) and the SCOM Audit and Collection (**AC**) database.

Please follow the steps in the next section to begin the installation.

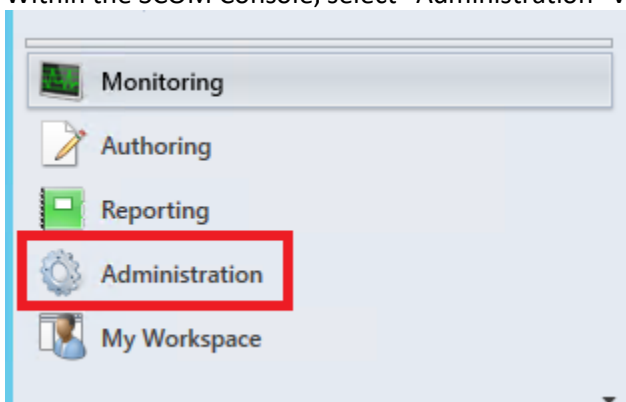
Installation

Install the secRMM SCOM Management Pack

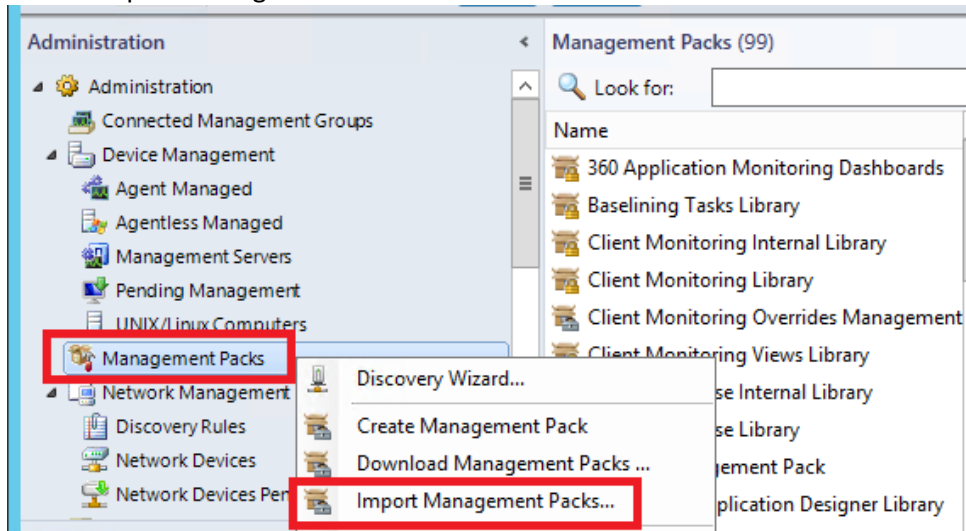
1. Download the secRMM Management Pack from the Squadra Technologies web site at <http://www.squadratechnologies.com/Products/secRMM/SystemCenter/secRMMSystemCenterOperationsManager.aspx> to a directory on your local hard drive (for example: C:\temp\secRMM\SCOMSetup). The secRMM Management Pack file name is **Squadra.secRMM.xml**. There is also a secRMMCentral Management Pack named **Squadra.secRMMCentral.xml**. The procedure for using secRMMCentral has the same steps outlined below.

Please note that if you use the secRMMCentral Management Pack, the computer with secRMMCentral running on it **MUST** also have secRMM installed on it as well. Failure to have secRMM installed will result in invalid event data getting inserted into the SCOM database and this will then cause the secRMM SCOM reports to fail to execute.

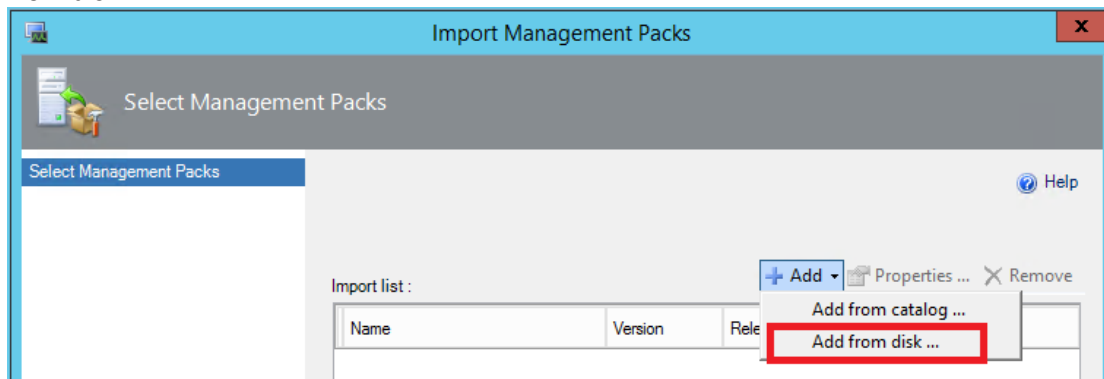
2. Open the SCOM Console using a userid that is a SCOM Administrator.
3. Within the SCOM Console, select "Administration" view



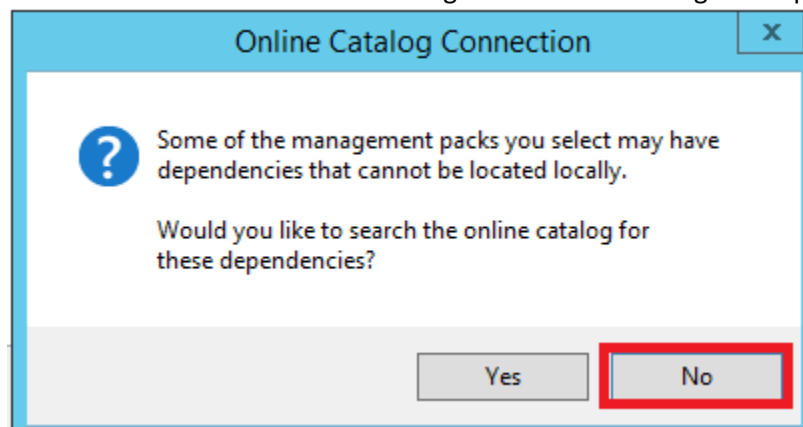
4. In the Administration view, right mouse click on “Management Packs”. From the pop-up menu, select “Import Management Packs...”



5. In the “Import Management Packs” dialog, click the Add drop-down button and then select “Add from disk...”.

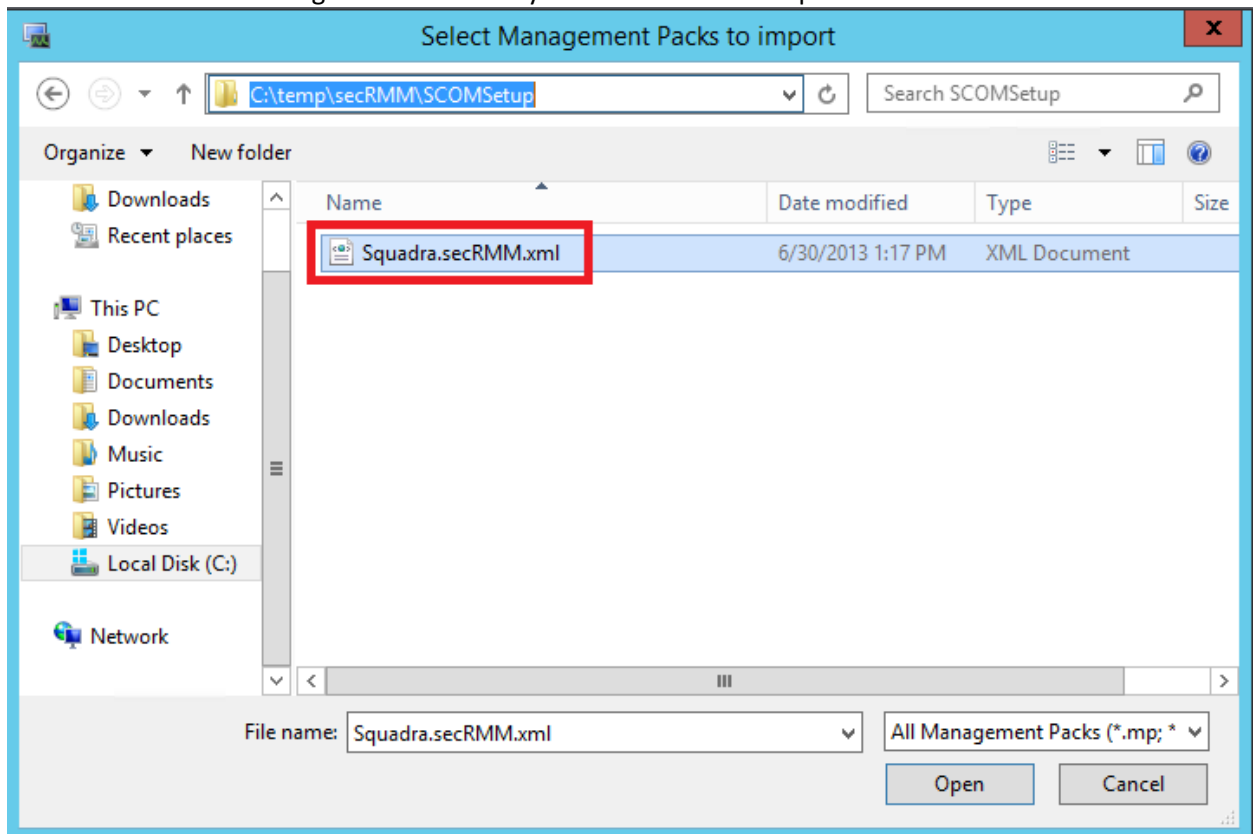


6. Select “No” when the “Online Catalog Connection” message box appears.

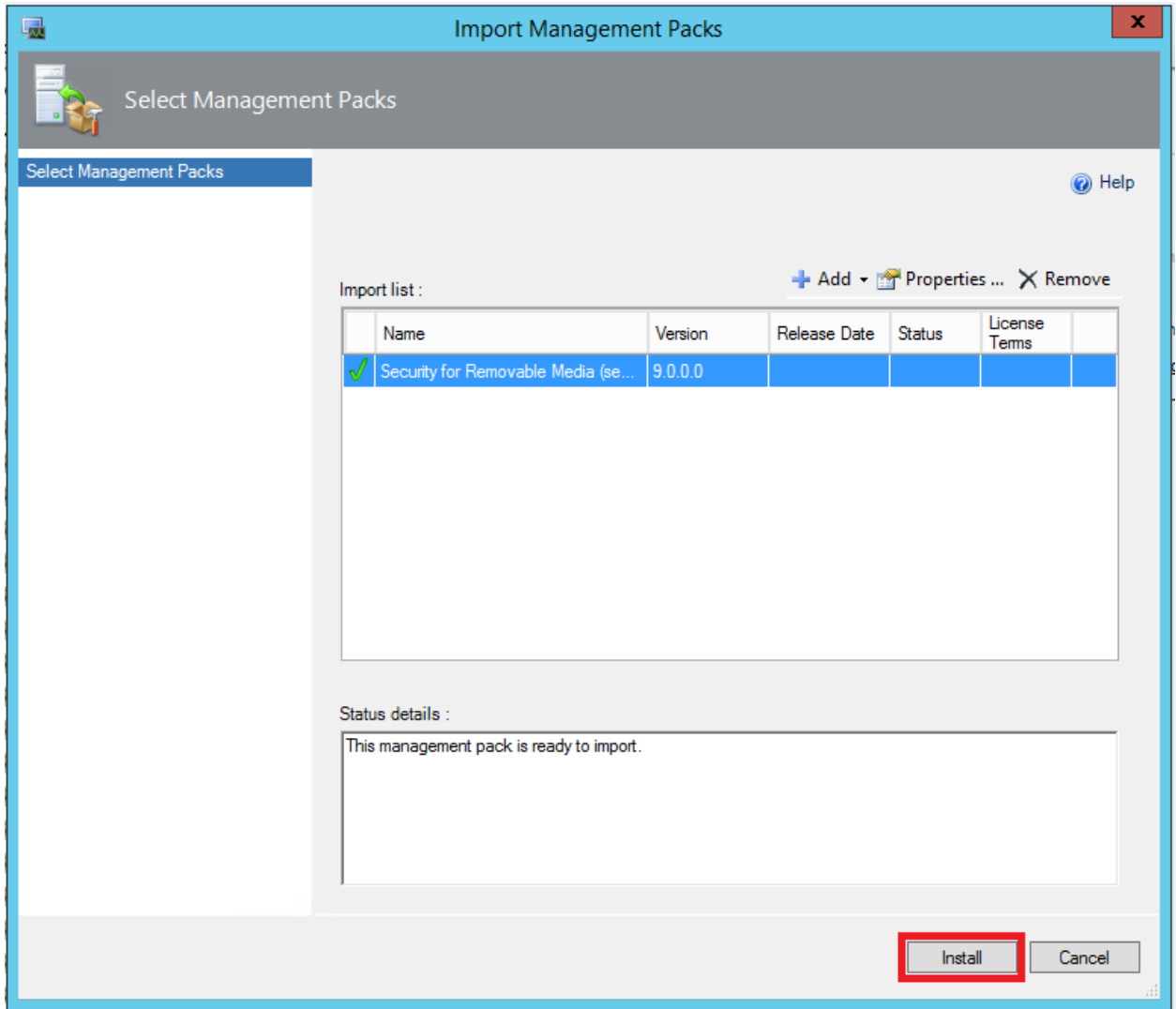


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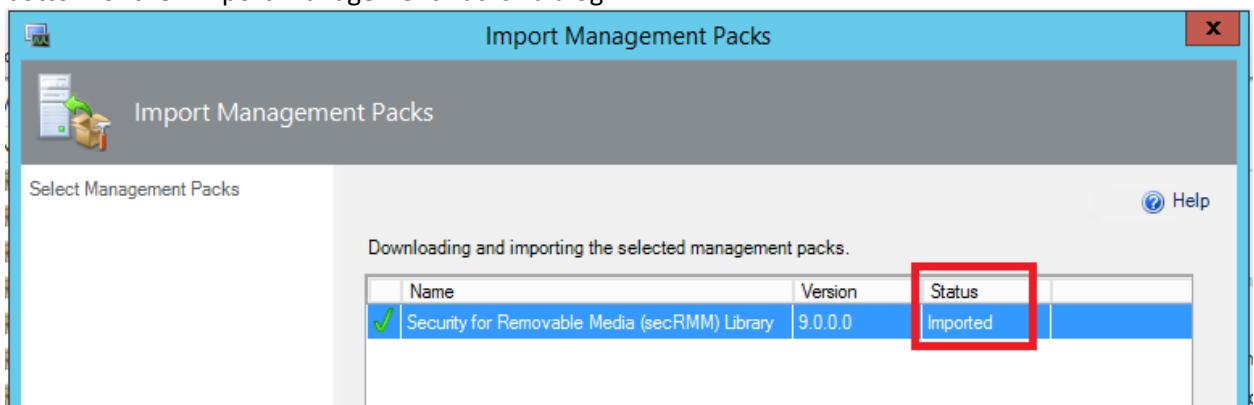
7. Select the secRMM Management Pack that you downloaded in step 1.



8. Click the "Install" button.

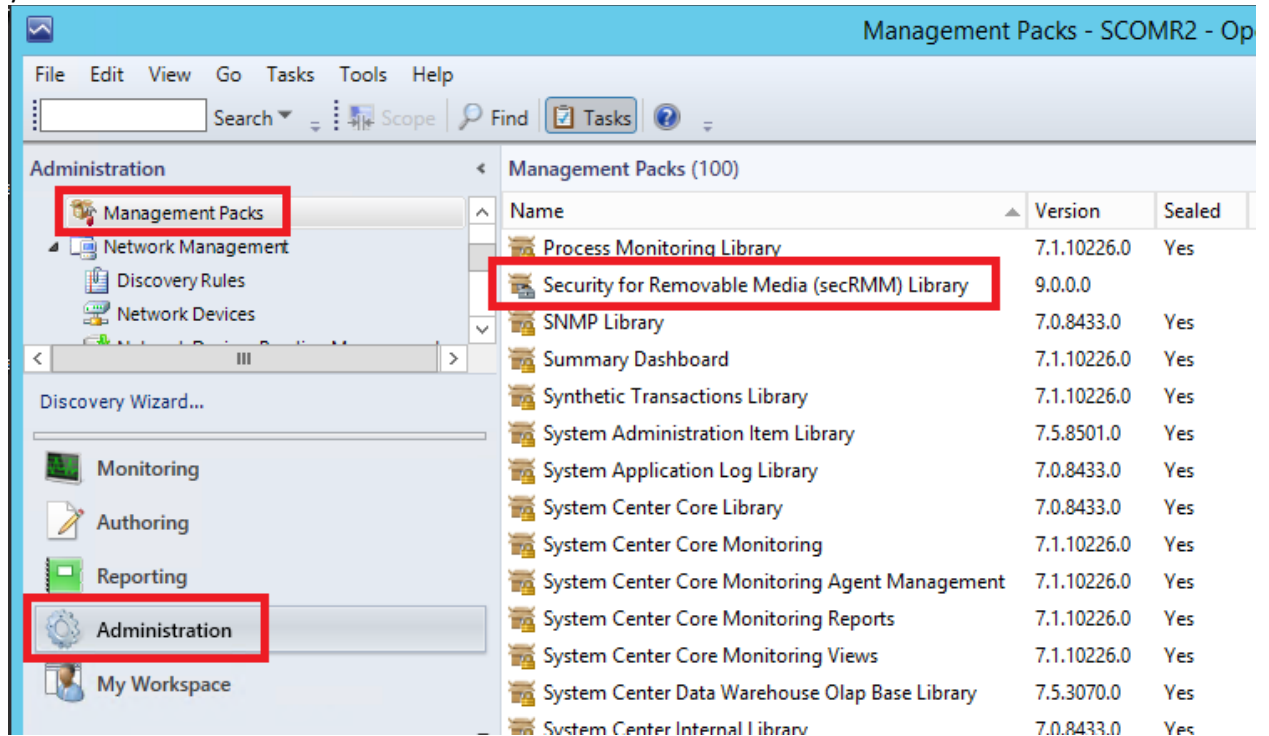


9. When the import completes, you will see a status of "Imported". Click the "Close" button at the bottom of the "Import Management Packs" dialog.



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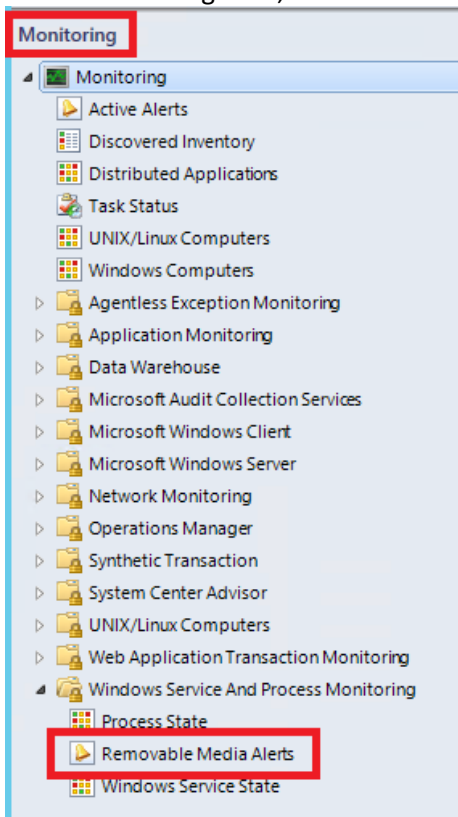
10. From the Administration view, you will see the secRMM Management Pack in the list of “Management Packs”. You may need to hit refresh several times depending on the workload of your SCOM environment.



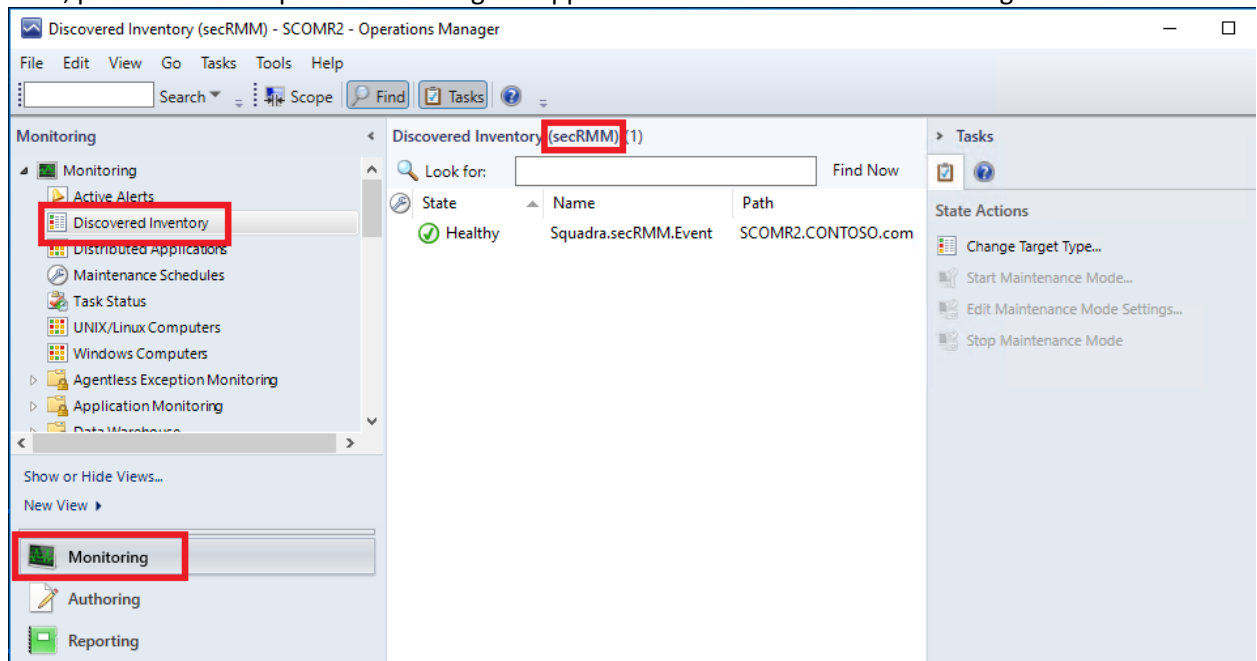
11. Select the “Monitoring” view



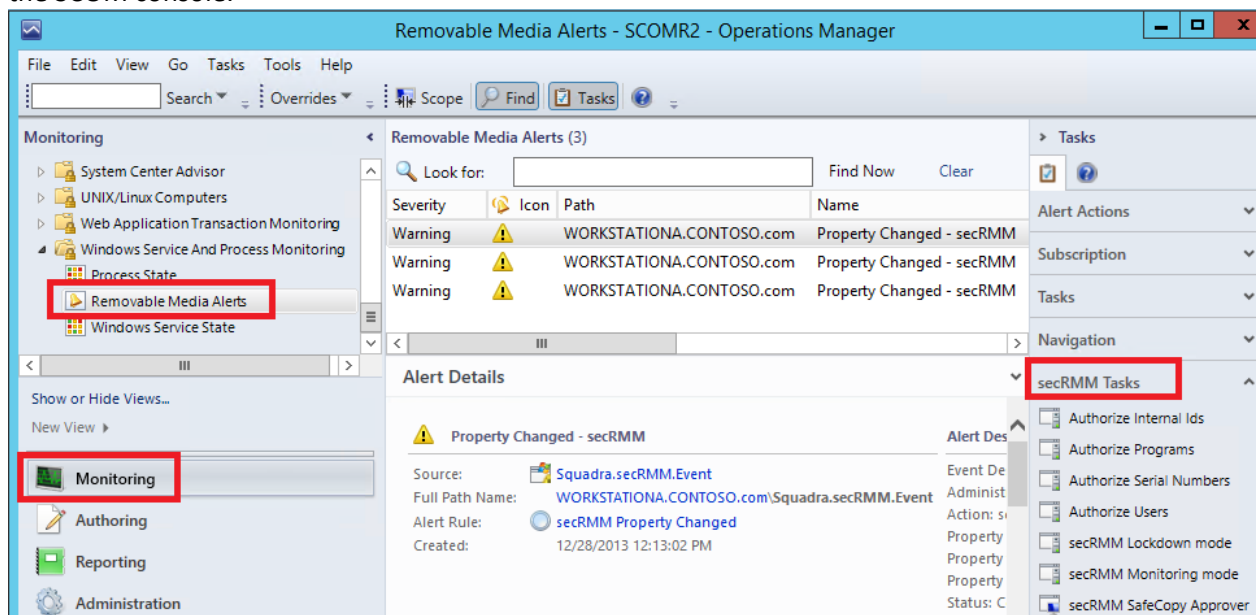
12. In the Monitoring view, in the tree view section, you will see the “Removable Media Alerts” view



13. You can verify which computers (that have the SCOM agent on them) have the secRMM Management Pack associated to them by viewing the Monitoring->"Discovered Inventory" and setting the "Target type" to secRMM. SCOM discoveries (unfortunately) can take up to 48 hours to run so if you do not see the expected results immediately, you need to give the SCOM framework time to process the new secRMM Management Pack you loaded from above. If, after ample time, you do not see any computers associated with the secRMM Management Pack, please contact Squadra Technologies support for assistance in troubleshooting.



14. Once the SCOM discovery occurs, all Windows computers being monitored by SCOM that have secRMM installed will forward the secRMM alerts (from the secRMM Windows Event Log) into the SCOM console.

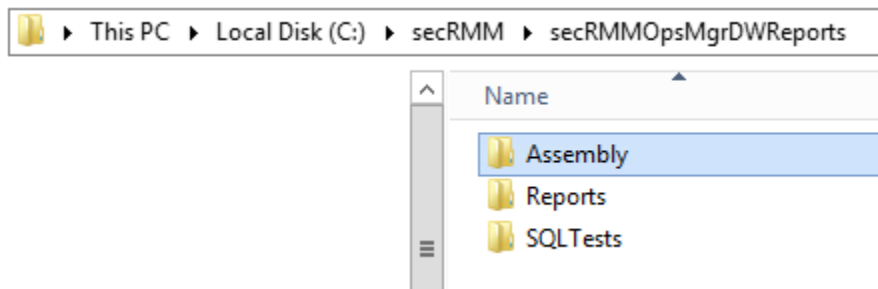


Install the secRMM SCOM Reports

There are 2 steps to installing the secRMM SCOM Reports. The first step registers a secRMM .Net assembly into the SQL SCOM database. This assembly parses the secRMM data in the database so the reports can be properly formatted. The second step loads the pre-defined secRMM reports into Microsoft SQL Server Reporting Services (**SSRS**) which is the Microsoft product that is used by SCOM for reports.

The required files for both steps are contained in the zip file named **secRMMOpsMgrDWReports.zip** or **secRMMOpsMgrACSReports.zip** which you download from the Squadra Technologies web site at <http://www.squadratechnologies.com/Products/secRMM/secRMMReports.aspx>. The first zip file is for the SCOM run-time data warehouse database (**DW**) and the second zip file is for the SCOM Audit and Collection (**AC**) database. The SCOM Audit and Collection database is an optional SCOM feature so it may not be installed in your environment. Unzip the file to a network share (or locally) that you can reach from the Windows computer(s) where the SCOM run-time data warehouse database, the SCOM Audit and Collection (**AC**) database and the Microsoft SQL Reporting Services database resides. These databases may or may not reside on the same Windows computer in your environment.

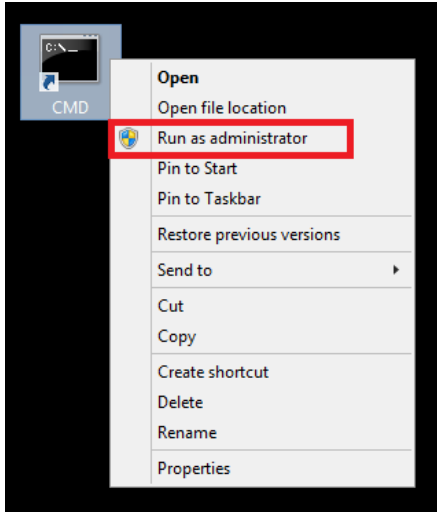
The unzipped folder will have three subfolders in it: Assembly, Reports and SQLTests.



Register the secRMM .Net assembly into SQL

The process of registering the secRMM .Net assembly is the same whether you are performing the step for the SCOM DW or the SCOM AC data base.

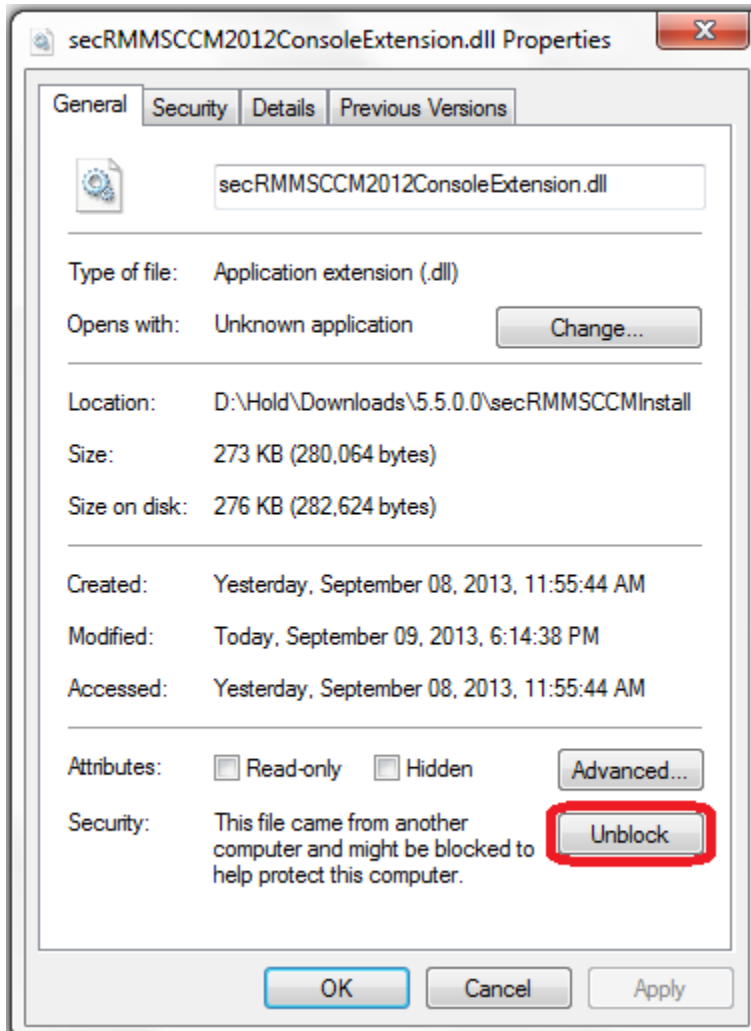
1. On the Windows computer where the data base (either DW or AC) is running, open a CMD window using "Run as Administrator"



2. Go to the directory where you extracted the **secRMMOpsMgrDWReports.zip** or **secRMMOpsMgrACSReports.zip** file. Go into the Assembly subfolder.

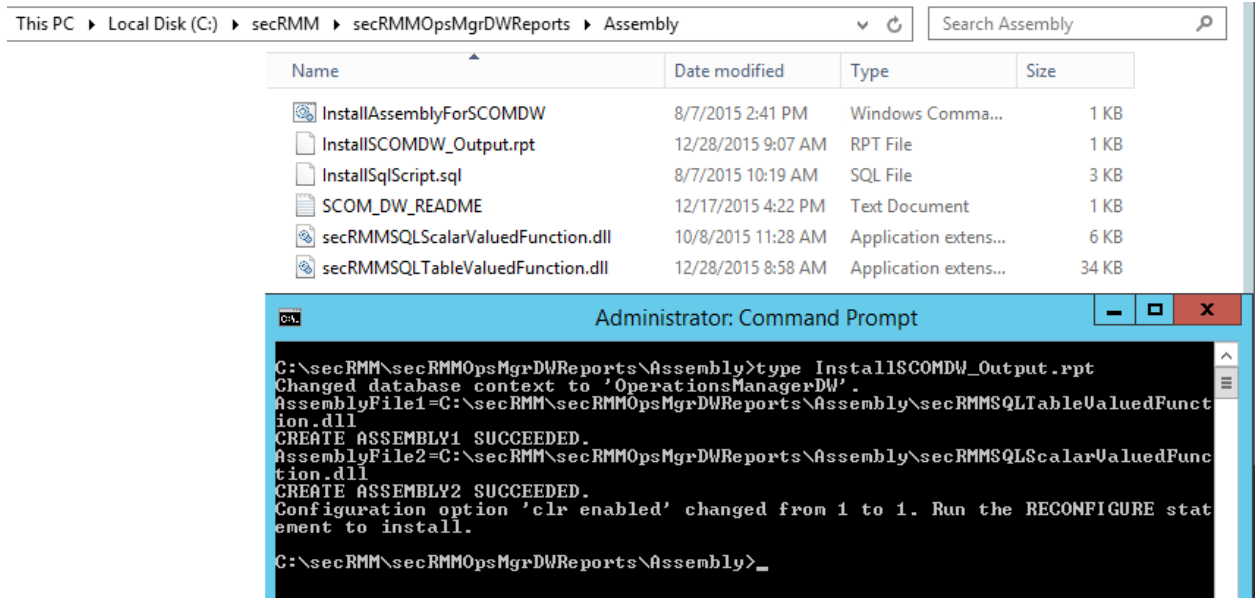
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3. For the following steps below, make sure that the userid you are logged in as has DBO/sysadmin permissions on the database so that the script executes with the proper permissions.
4. For the following steps below, check to make sure that all of the files that were unzipped are unblocked (see screen shot below). Windows (sometimes) blocks these files because they were downloaded from the Internet.



5. Run the script named InstallAssemblyForSCOMDW.cmd (or InstallAssemblyForSCOMAC.cmd). A log file will be generated (it will be the only file with an extension of rpt).
6. Review the log file generated. It should not contain any errors. If there are errors, please make sure your userid has DBO/sysadmin permissions to the database.

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Load secRMM reports into Microsoft SQL Server Reporting Services (SSRS)

Load secRMM reports into SSRS using Powershell

The Powershell script used in this section performs the steps in the “Load secRMM reports into SSRS manually” subsection below.

1. In the command window, change directory (CD) into the temporary directory where you unzipped secRMMSCCMReports.zip.
2. Now change directory (CD) into the Reports sub-directory.
3. In the Reports sub-directory, you will see a file named ImportReports.cmd and ImportReports.ps1 (as shown in the screenshot below).

This PC > Local Disk (C:) > temp > secRMMOpsMgrDWReports > Reports > SCOM_DW_DB

Name	Date modified	Type
ImportReports.cmd	3/1/2019 12:48 PM	Windows Command Script
ImportReports.ps1	3/6/2019 12:36 PM	Windows PowerShell Script
Removable Media Administration Events.rdl	3/6/2019 11:18 AM	RDL File
Removable Media All Events.rdl	3/6/2019 11:29 AM	RDL File
Removable Media Authorization Failure Events.rdl	3/6/2019 11:29 AM	RDL File
Removable Media Charts.rdl	3/6/2019 11:34 AM	RDL File
Removable Media Online-Offline Events.rdl	3/6/2019 11:38 AM	RDL File
Removable Media Write Events.rdl	3/6/2019 11:42 AM	RDL File

4. In the command window, type ImportReports.cmd and hit the enter key.
The output will look similar to the screenshot below.

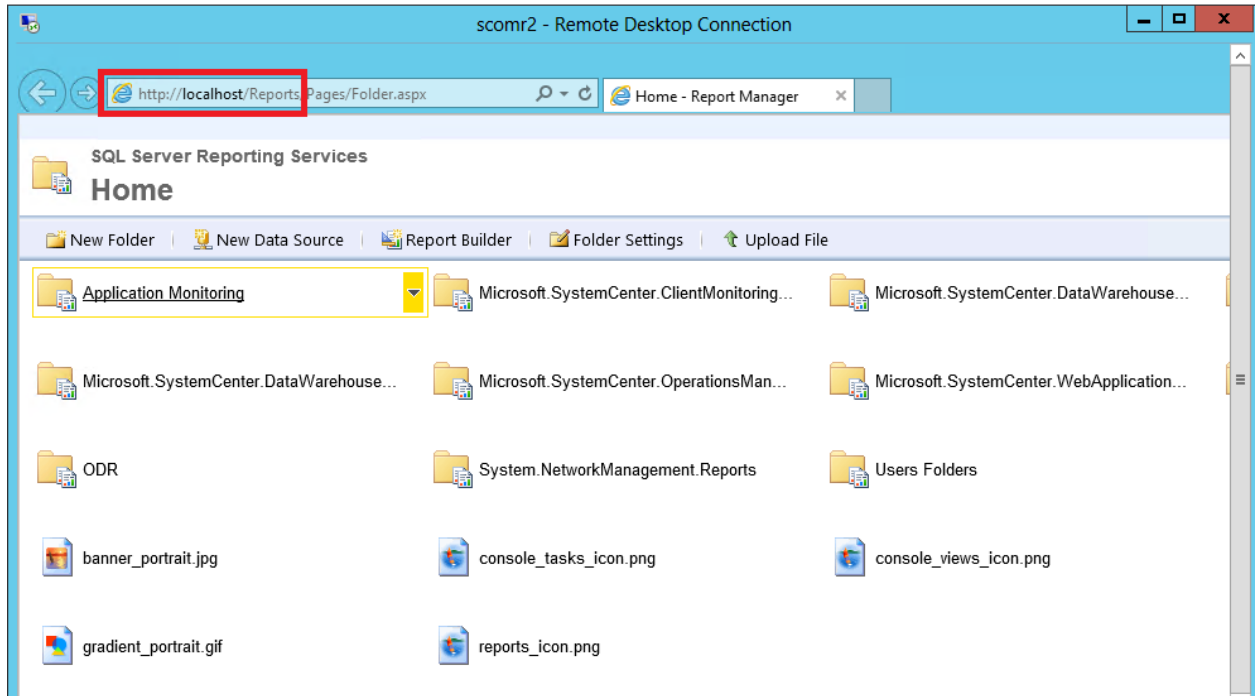
```
Administrator: Command Prompt
Folder "Removable Media Security" Created
Report Removable Media Administration Events.rdl uploaded successfully.
Report Removable Media All Events.rdl uploaded successfully.
Report Removable Media Authorization Failure Events.rdl uploaded successfully.
Report Removable Media Charts.rdl uploaded successfully.
Report Removable Media Online-Offline Events.rdl uploaded successfully.
Report Removable Media Write Events.rdl uploaded successfully.
Import of reports completed.
C:\temp\secRMMOpsMgrDWReports\Reports\SCOM_DW_DB>
```

If the Powershell output looks like the above screenshot, you may skip over the “Load secRMM reports into SSRS manually” subsection below.

Load secRMM reports into SSRS manually

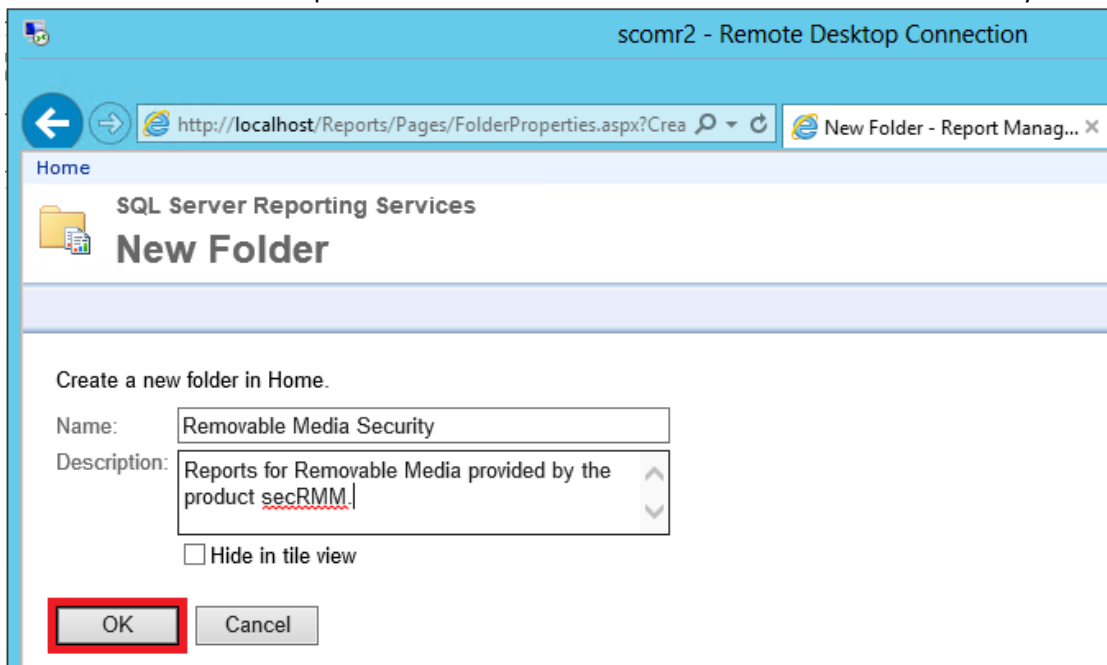
1. On the Windows computer where SSRS is running, open a web browser and go to the URL <http://localhost/reports>.

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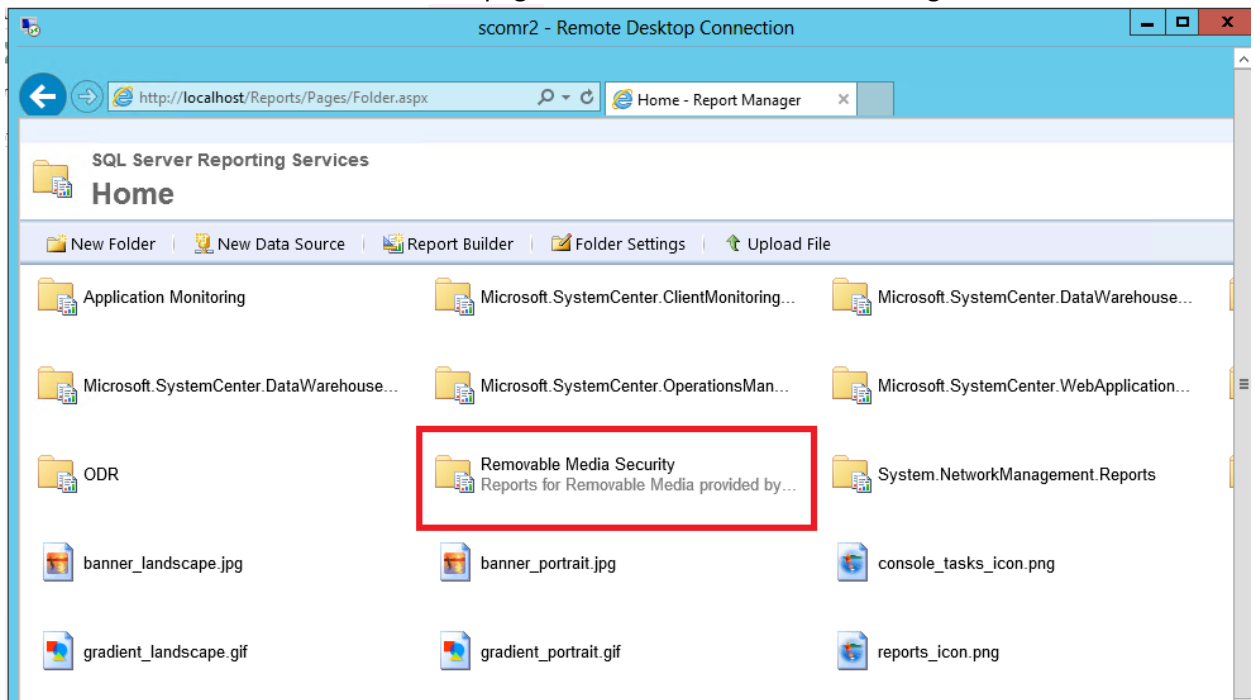


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2. Select the “New Folder” option and create a folder named “Removable Media Security”

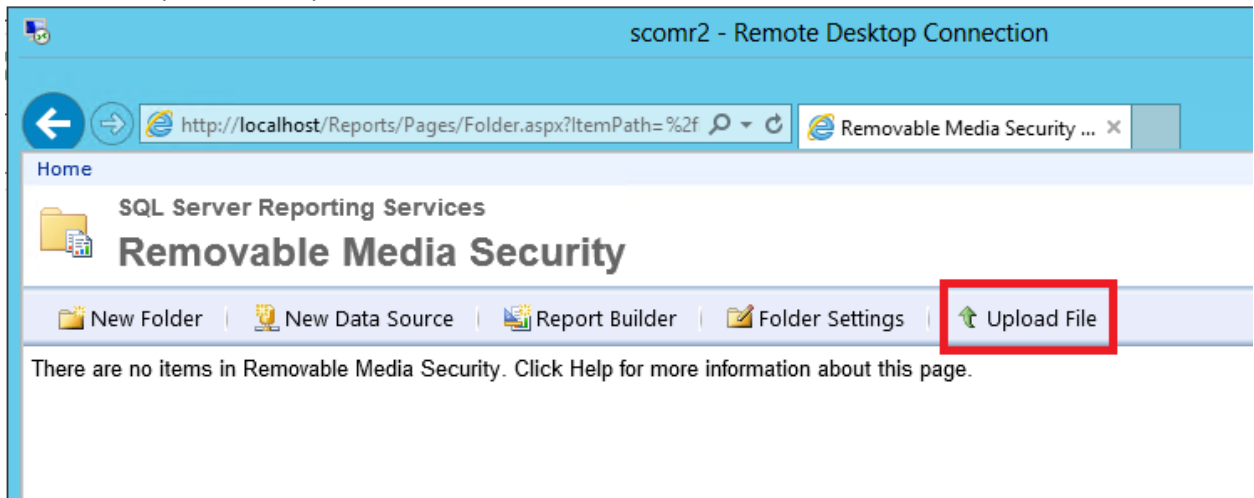


3. You will see the new folder on the main page. Double click the new folder to go into it.

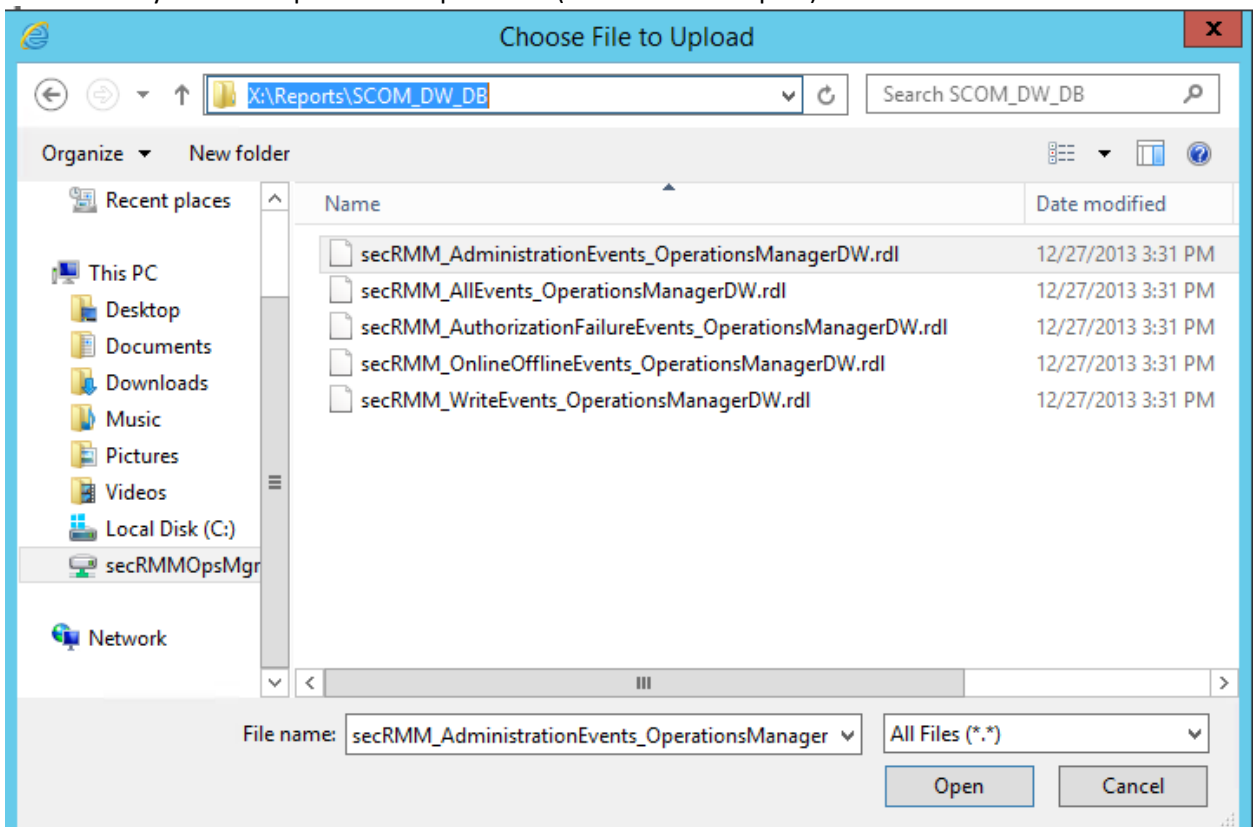


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4. Select the "Upload File" option

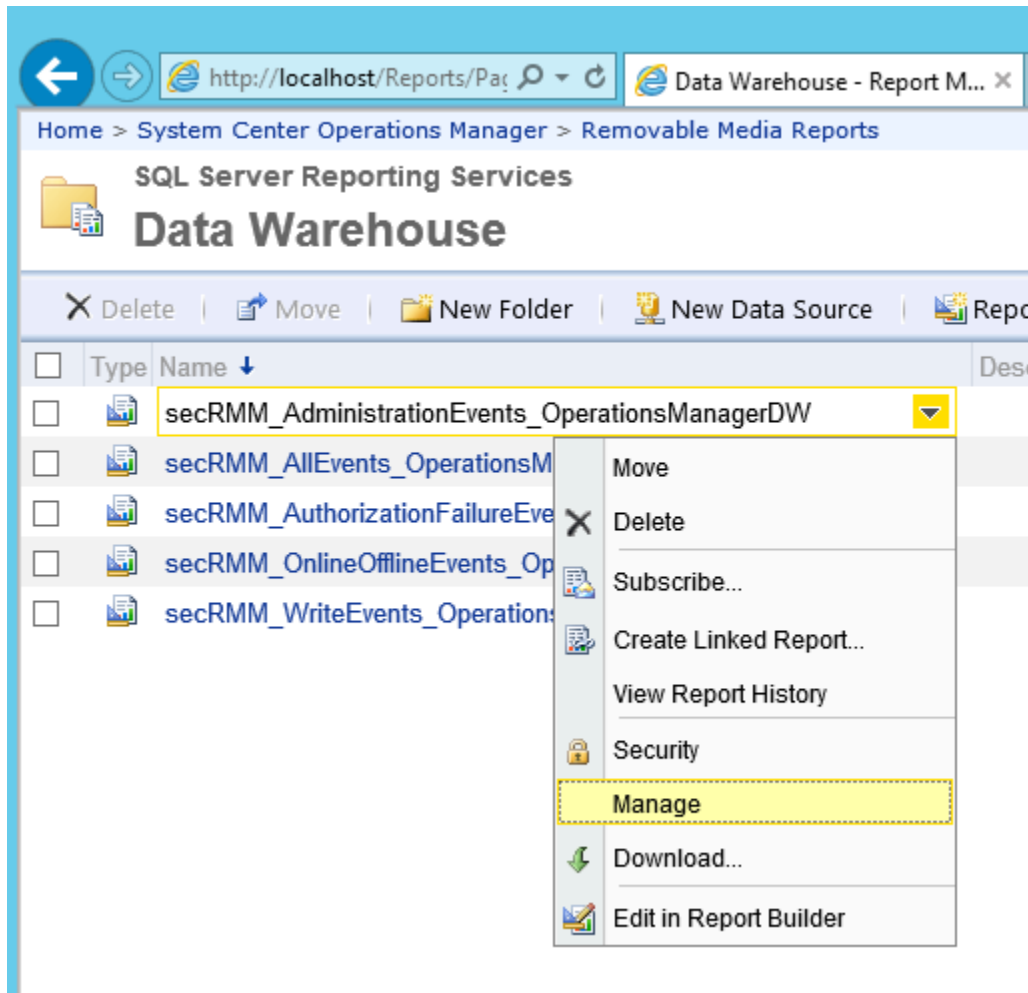


5. From the "Choose File to Upload", go to the SCOM_DW_DB or SCOM_AC_DB folder (under the directory where you extracted the **secRMMOpsMgrDWRReports.zip** or **secRMMOpsMgrACSReports.zip** file) depending on which SCOM database you are importing the reports for. Unfortunately, the "Choose File to Upload" dialog only allows you to choose one file at a time so you must repeat this step 5 times (once for each report).

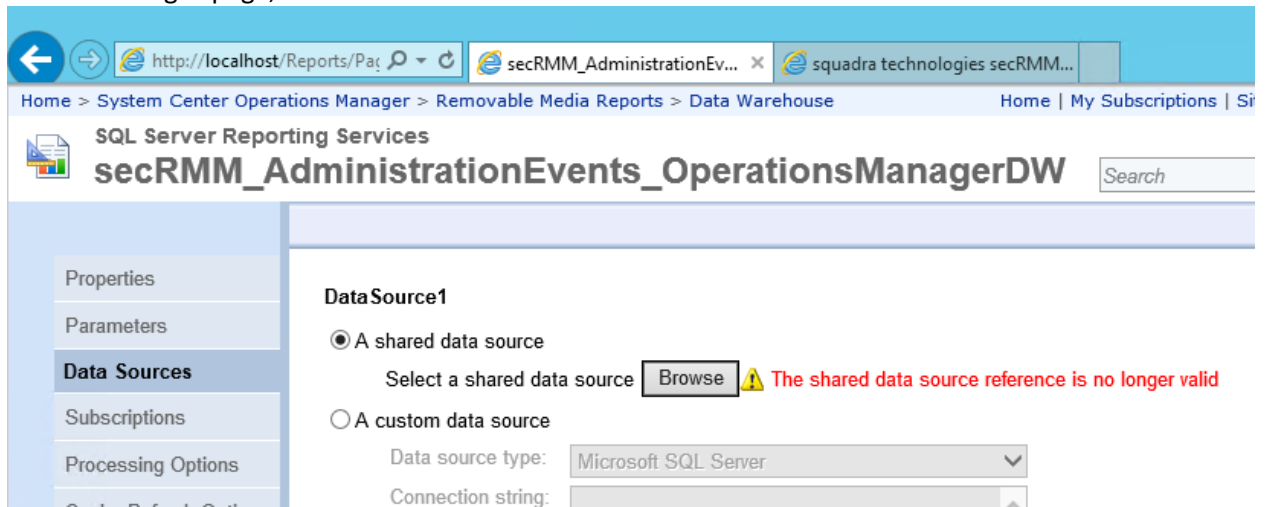


The screenshot shows a web-based interface for uploading files to SQL Server Reporting Services. The title bar indicates a 'Remote Desktop Connection' to 'scomr2'. The browser address bar shows the URL 'http://localhost/Reports/Pages/Import.aspx?ItemPath=%2f'. The page title is 'SQL Server Reporting Services' and the main heading is 'Upload File'. Below the heading, there is a description: 'Upload a report (.rdl), model (.smdl), shared dataset (.rsd), report part (.rsc), or other resource into Removable Media Security.' The 'File to upload:' field contains 'X:\Reports\SCOM_DW_DB\secR' and has a 'Browse...' button. The 'Name:' field contains 'secRMM_AllEvents_OperationsManagerDW'. A checkbox labeled 'Overwrite item if it exists' is checked. At the bottom, there are 'OK' and 'Cancel' buttons. The 'OK' button is highlighted with a red box.

6. When you are finished with the uploads, you will have all the secRMM reports loaded. The last step is to associate the SCOM SQL datasource to each report. Unfortunately, you must repeat the following steps for each report since there is no way to apply it to all the reports at one time.
7. To the right of the report name, click the yellow down arrow and select "Manage" from the list.



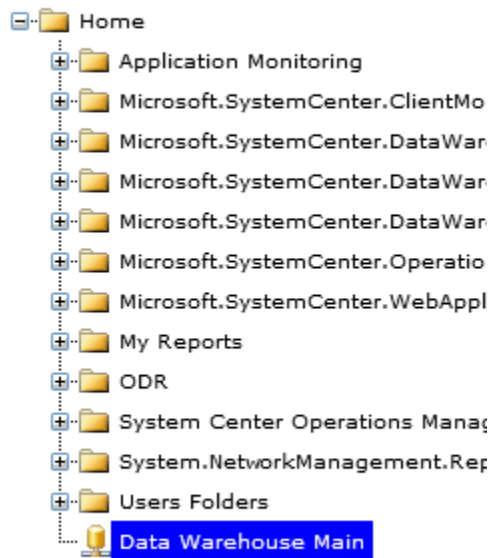
8. In the “Manage” page, click the “Data Sources” tab.



9. In the “Manage”->“Data Sources” page, click the “Browse” button in the “A Shared data source” section.

Browse folders to select a shared data source to use with this item.

Location:



10. Click the "Data Warehouse Main" or "Audit and Collection Services" data source (it should be at the very bottom of the list) and then click OK.
11. You will now be back on the "Manage"->"Data Sources" page. Make sure you click the "Apply" button on the bottom of the page.

Properties

Parameters

Data Sources

Subscriptions

Processing Options

Cache Refresh Options

Report History

Snapshot Options

Security

Data Source1

☒ A shared data source

/Data Warehouse Main **Browse**

☐ A custom data source

Data source type: Microsoft SQL Server

Connection string:

Connect using:

☐ Credentials supplied by the user running

Display the following text to prompt use

Type or enter a user name and password

☐ Use as Windows credentials when c

☐ Credentials stored securely in the report

User name:

Password:

☐ Use as Windows credentials when c

☐ Impersonate the authenticated user

☐ Windows integrated security

☐ Credentials are not required

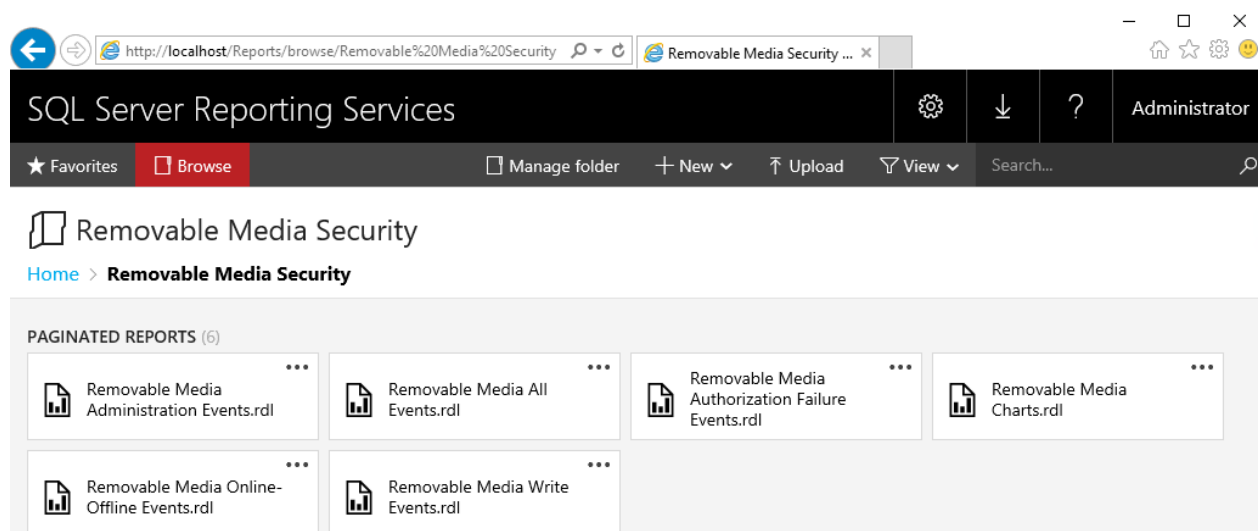
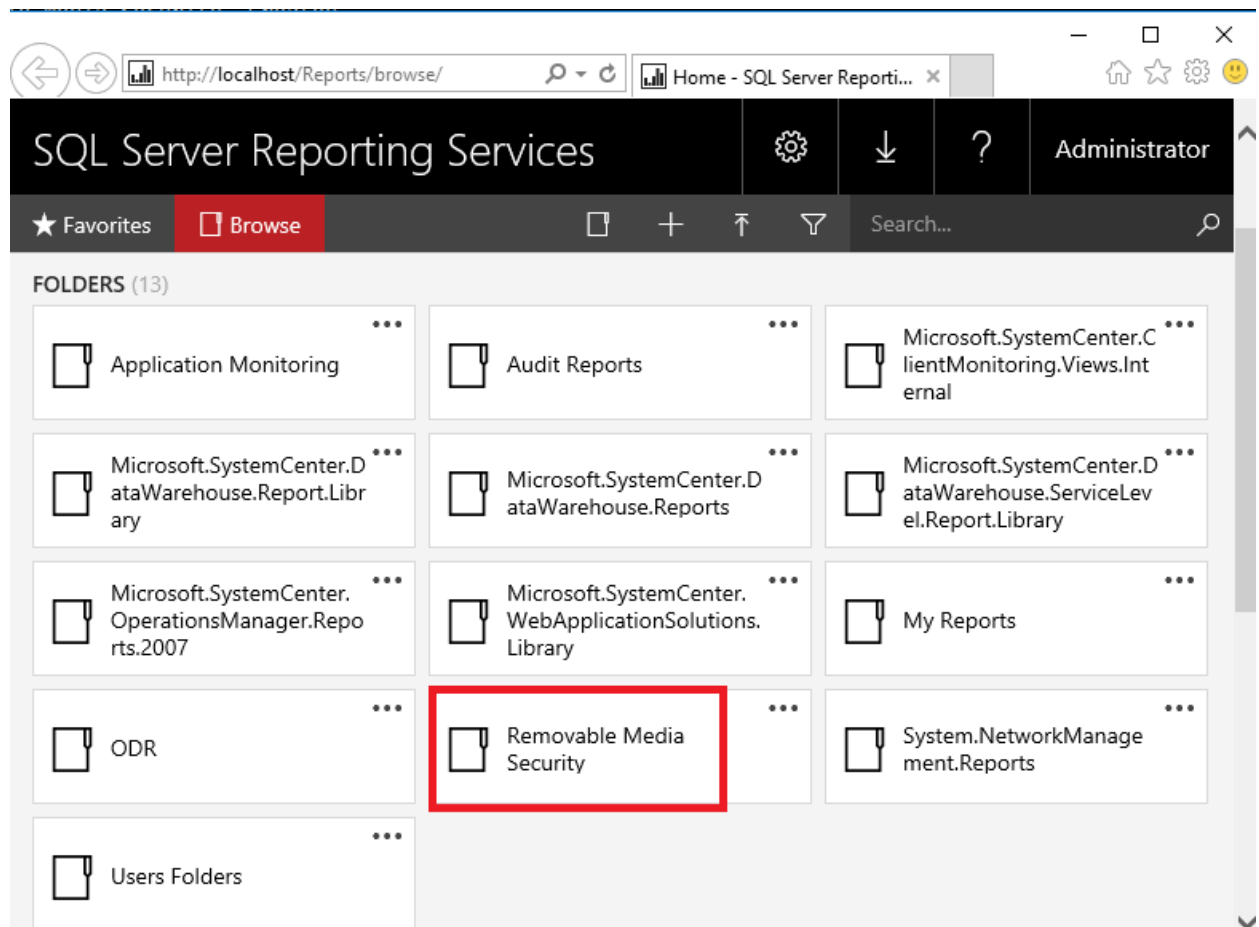
Test Connection

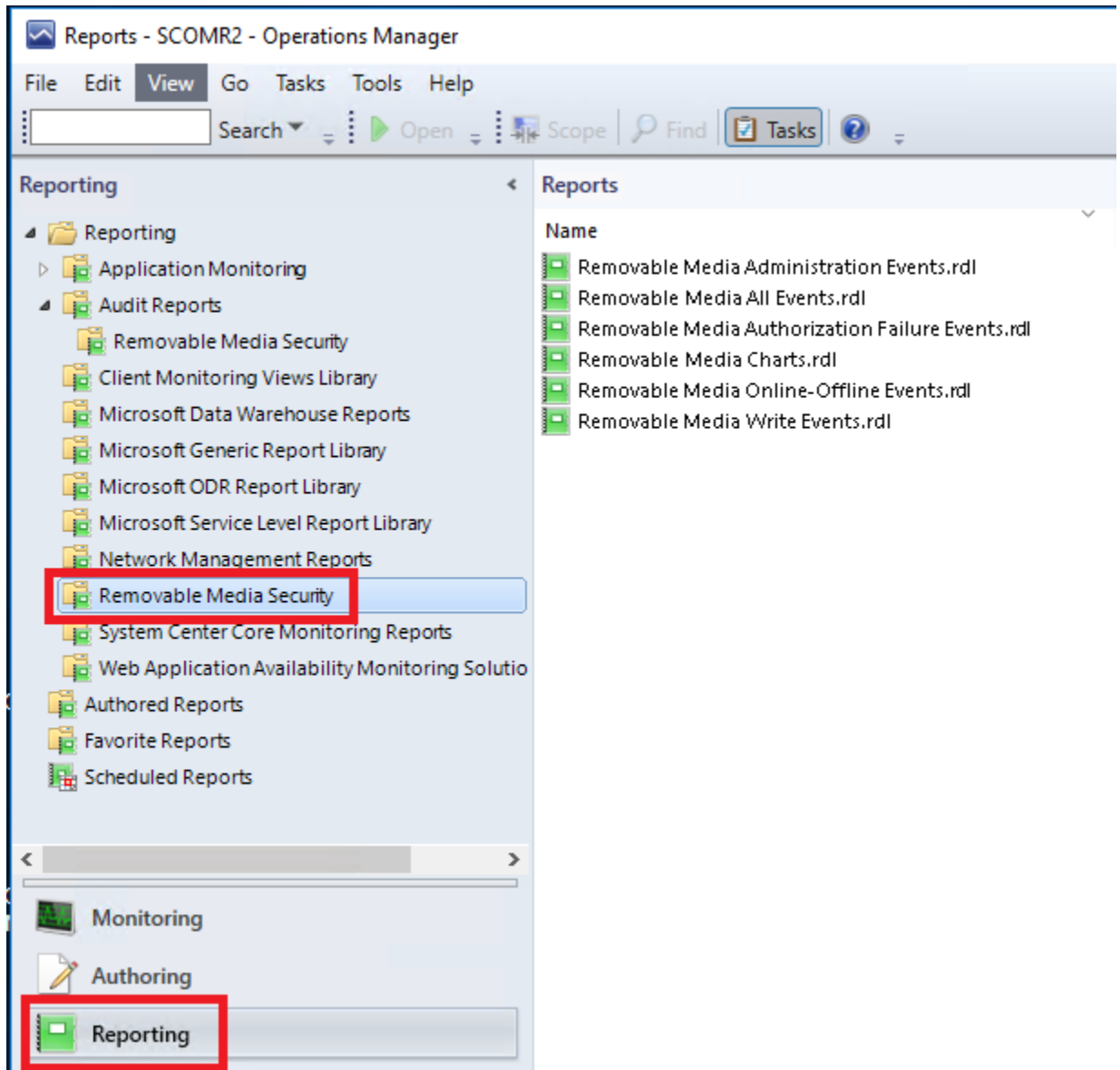
Apply

12. Remember to repeat steps 7-11 (above) for all of the reports.

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You can now access the reports from either the web browser (<http://localhost/Reports/browse/>) or from the SCOM Console.





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SQL Server Reporting Services

Home > Removable Media Security > Removable Media All Events.rdl

Start Date: 3/1/2019 End Date: 4/1/2019

Event Type: ONLINE, OFFLINE, WRITE START, WRIT Computer: SCOMR2.CONTOSO.com

UserName: CONTOSO\administrator

Executed By: CONTOSO\Administrator
Execution Time: 3/8/2019 12:51:18 PM
Start Date: 3/1/2019
End Date: 4/1/2019
Events: 400, 403, 401, 402, 600, 601, 300, 700, 701, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811
Computer(s): SCOMR2.CONTOSO.com
Users(s): CONTOSO\administrator

Event Id	Event	Time	Computer	User Name	User SID	Drive	Volume
400	ONLINE	3/6/2019 7:05:30 PM	SCOMR2.CONTOSO.com	CONTOSO\administrator		W10^E:	\Device\Har
402	WRITE COMPLETED	3/6/2019 7:06:16 PM	SCOMR2.CONTOSO.com	CONTOSO\administrator	S-1-5-21-194330278-343332919-2867172138-500	W10^E:	\Device\Har
402	WRITE COMPLETED	3/6/2019 7:06:21 PM	SCOMR2.CONTOSO.com	CONTOSO\administrator	S-1-5-21-194330278-343332919-2867172138-500	W10^E:	\Device\Har

SCOM and Management Pack Features

The base SCOM features combined with the SCOM secRMM Management Pack make working with secRMM very simple.

Computer Management MMC

If you need direct access to the secRMM MMC, you can access it directly from the SCOM console:

1. Click the Windows computer you want to connect to
2. Click the "Computer Management" link in the SCOM "Windows Computer Tasks"

Windows Computers - SCOMR2 - Operations Manager

File Edit View Go Tasks Tools Help

Search Scope Find Tasks

Monitoring

- Monitoring
 - Active Alerts
 - Discovered Inventory
 - Distributed Applications
 - Task Status
 - UNIX/Linux Computers
 - Windows Computers**
 - Agentless Exception Monitoring
 - Application Monitoring

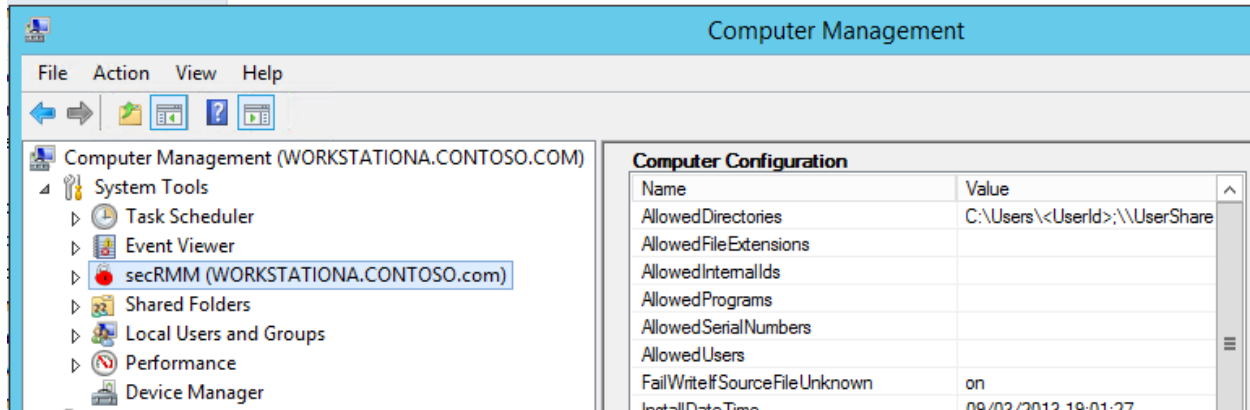
Windows Computers (2)

State	Name
Healthy	SCOMR2.CONTOSO.com
Healthy	WORKSTATIONA.CONTOSO.com

Detail View

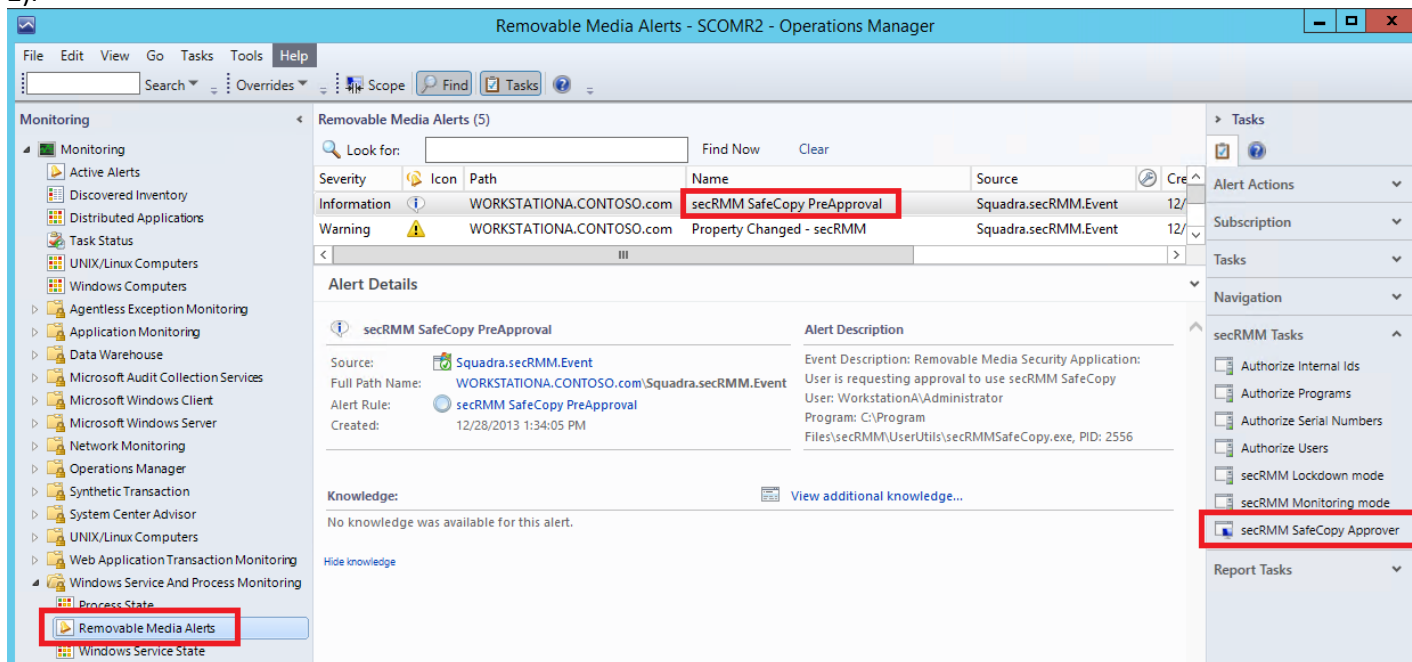
Tasks

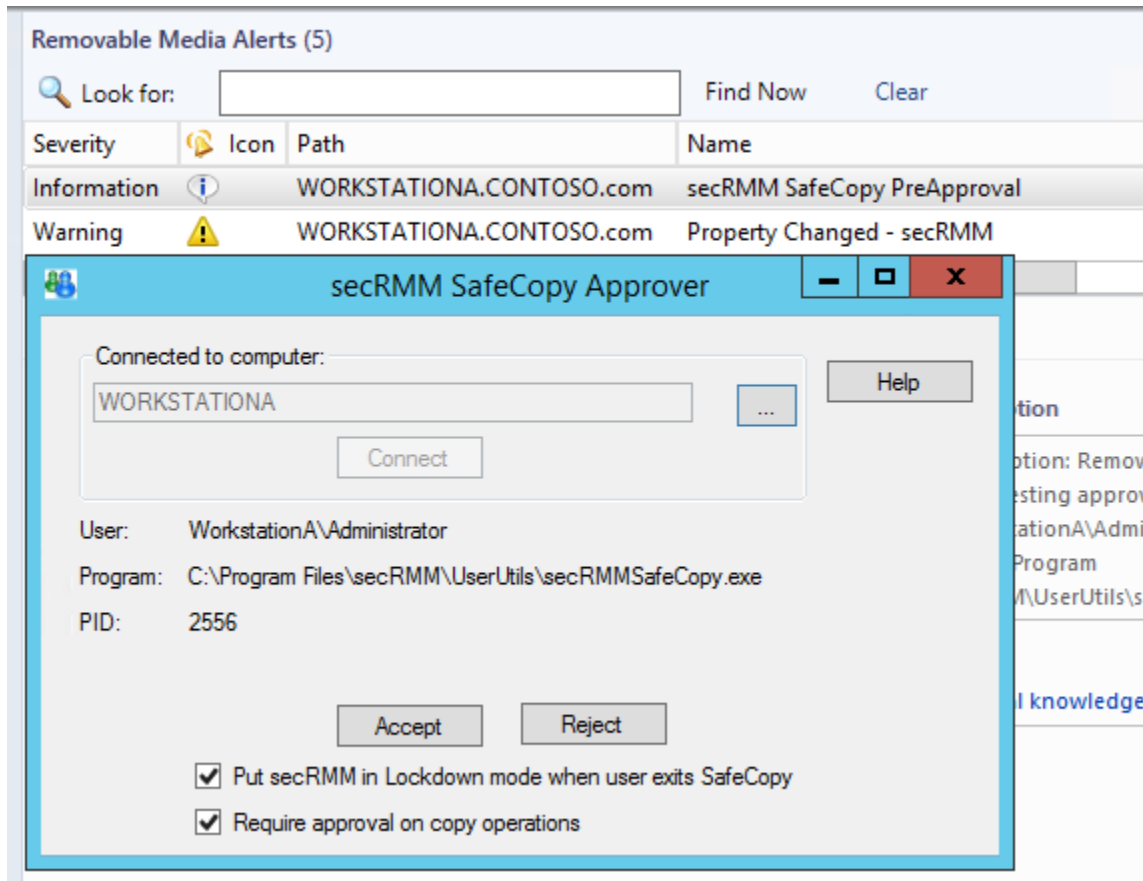
- Windows Computer Tasks
 - Computer Management**
 - Ping Computer
 - Ping Computer (with Route)
 - Ping Computer Continuously (ping -t)
 - Remote Desktop



SCOM secRMM Tasks

The secRMM Management Pack includes SCOM Tasks which allow you to perform certain common secRMM functions directly within the console. As an example, the screen shots below show how the SCOM operator can act as the “secRMM SafeCopy Approver” (i.e. enforceable two man policy). The first screen shot shows how an alert gets generated when the end-user starts the secRMM SafeCopy program to write to a removable media device. The SCOM operator can click that alert and then click the SCOM “secRMM SafeCopy Approver” task to approve or reject the end-users request (screen shot 2).





When you run the secRMM Operations Manager agent tasks, be sure that you specify an Administrator userid to run the task if the Operations Manager agent is not a member of the local Administrators group (see screenshot below). If the Operations Manager is a member of the local Administrators group on the Windows computer where you will be running the agent task, then you do not need to specify a different userid.

Run Task - Authorize Users

Run the task on these targets

Target	Run Location
<input checked="" type="checkbox"/> Squadra.secRMM.Event	w200364.mms.com

Task Parameters

Name	Value
Timeout Seconds	60
Arguments	Null

Task credentials

☐ Use the predefined Run As Account

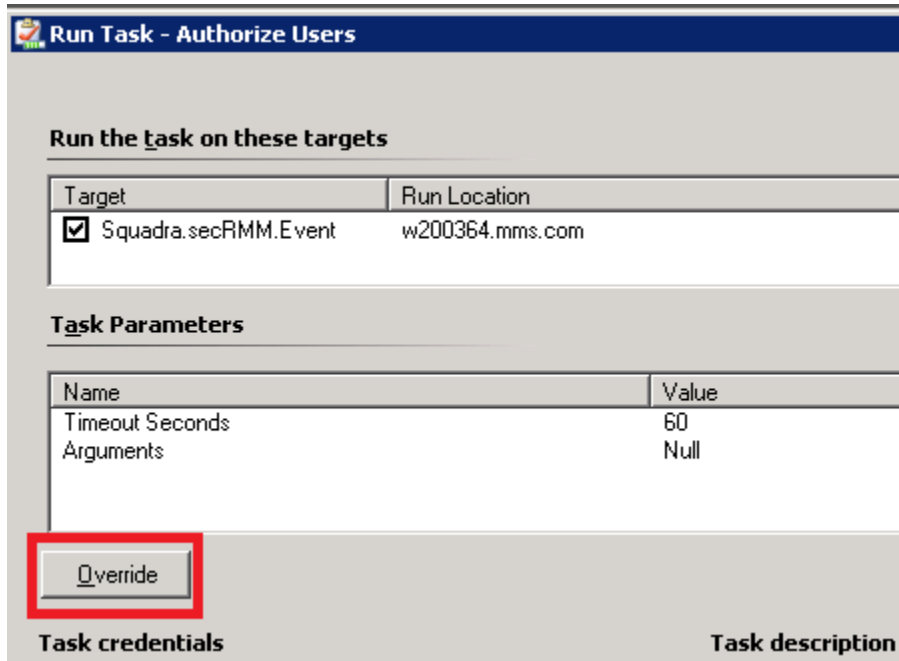
☒ Other :

User name : Administrator

Password :

Domain : w200364 ▼

By default, the secRMM Operations Manager agent tasks are setup to clear each secRMM property (that is AllowedUsers, AllowedPrograms and AllowedSerialNumbers). If you want to use the secRMM Operations Manager agent tasks to set one of the secRMM authorization properties, you need to override the task parameter from with the Operations Manager Console (please see the screenshots below).



Run Task - Authorize Users

Run the task on these targets

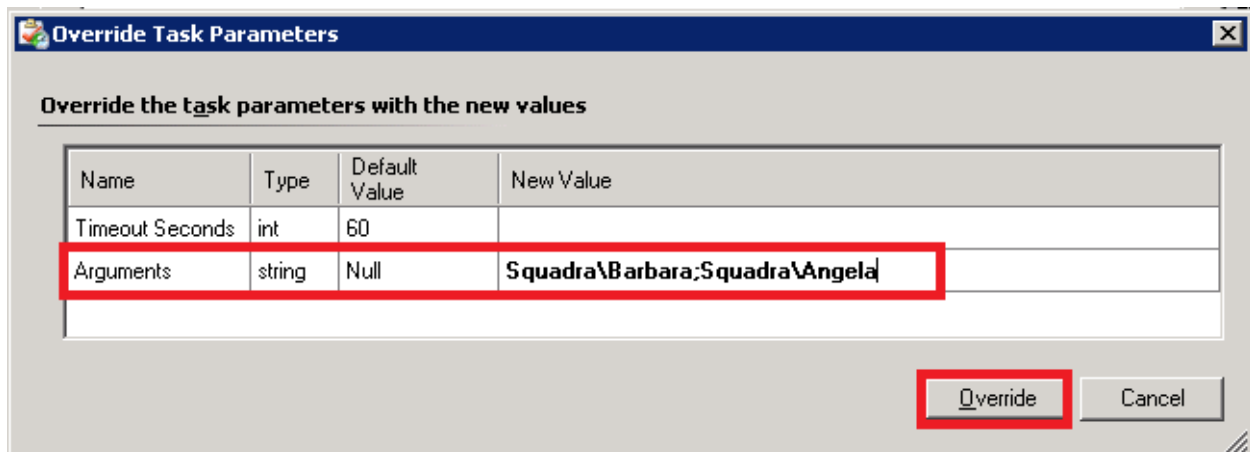
Target	Run Location
<input checked="" type="checkbox"/> Squadra.secRMM.Event	w200364.mms.com

Task Parameters

Name	Value
Timeout Seconds	60
Arguments	Null

Override

Task credentials Task description



Override Task Parameters

Override the task parameters with the new values

Name	Type	Default Value	New Value
Timeout Seconds	int	60	
Arguments	string	Null	Squadra\Barbara;Squadra\Angela

Override Cancel

You can verify the secRMM Operations Manager agent task by viewing the task status view from with the Operations Manager Console.

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The screenshot displays the 'System Center Operations Manager 2007 R2 - QST' application. The left-hand 'Monitoring' tree is expanded to 'Task Status'. The main pane shows a table of task status with one entry: 'Success' for the task 'Authorize Users' on 3/24/2011 at 12:15:32 PM. Below the table, the 'Details' section for 'Authorize Users' is shown, including a 'Task Description' and 'Task Output'.

Status	Task Name	Schedule Time	Start Time	Submitted By	Run As
Success	Authorize Users	3/24/2011 12:15:32 PM	3/24/2011 12:15:35 PM	W200364\Admin...	W200364\Admini

Task Details for Authorize Users:

- Status:** Success
- Scheduled Time:** 3/24/2011 12:15:32 PM
- Start Time:** 3/24/2011 12:15:35 PM
- Submitted By:** W200364\Administrator
- Run As:** W200364\Administrator
- Run Location:** w200364.mms.com
- Target:** Squadra.secRMM.Event
- Target Type:** secRMM
- Category:** Security Health

Task Description: This opsmgr agent task allows you to set the secRMM AllowedUsers property tells secRMM Removable Media Device. The secRMM AllowedUsers property is a semicolon-separated list of userids. The value that will never match any userid within secRMM AllowedUsers property is a semicolon of the userids is domainName\userid

Task Output:

```
secRMM Property AllowedUsers has been set
```

Error: None

Exit Code: 0

Available Reports

There are 5 secRMM reports available:

1. All secRMM events
2. Administration events
3. Authorization Failure events
4. Online/Offline events
5. Write events

Contacting Squadra Technologies Support

Squadra Technologies Support is available to customers who have purchased a commercial version of secRMM and have a valid maintenance contract or who are in a trial mode of the product.

When you contact Support please include the following information:

1. The version of secRMM you have installed.
2. The Windows versions you have installed: XP, 2003 Server, 2008 Server R2, Vista, Windows 7, Windows 8, Windows 2012, etc.
3. The version of SCOM you have installed.
4. Whether the Windows Operating System is 32bit or 64bit.
5. The specific issue you are contacting support for.

About Squadra Technologies, LLC.

Squadra Technologies delivers innovative products that help organizations get more data protection within the computer infrastructure. Through a deep expertise in IT operations and a continued focus on what works best, Squadra Technologies is helping customers worldwide.

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