



Security Removable Media Manager

Active Directory Installation Guide

Version 9.11.26.0

(January 2024)

Protect your valuable data



secRMM Active Directory Installation Guide

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Squadra Technologies Excel AddIn Administrator Guide
Created - August 2011

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Introduction

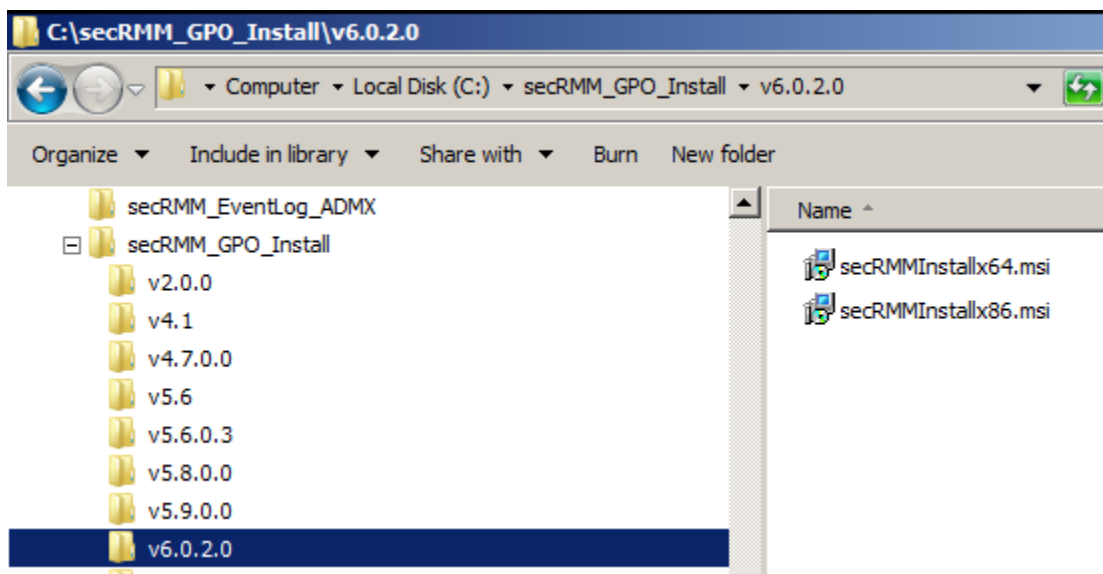
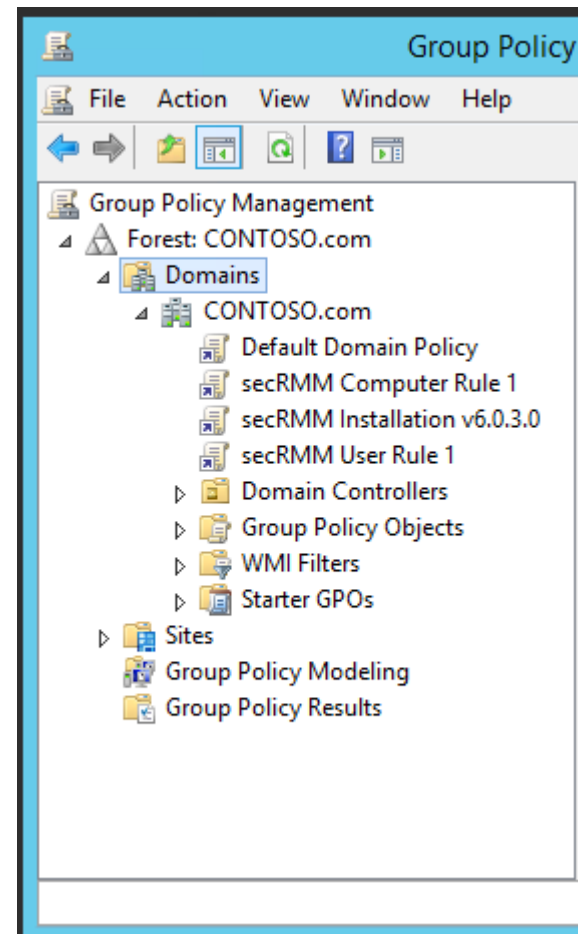
Security Removable Media Manager (secRMM) can be installed (deployed) in your domain using Microsoft Active Directory.

NOTE: This document is 95% screenshots so don't get discouraged with the number of pages! Hopefully you will find that a picture is really worth 1000 words.

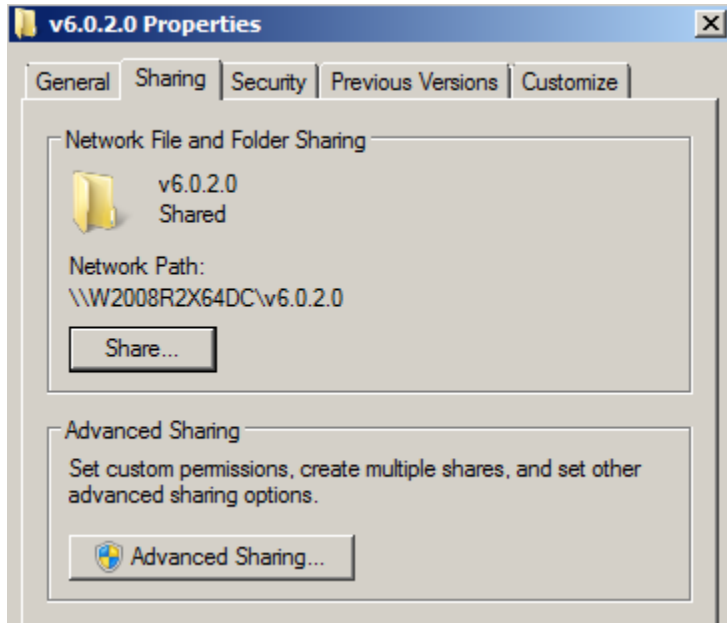
Installation of secRMM using AD GPO

Prepare the Active Directory server

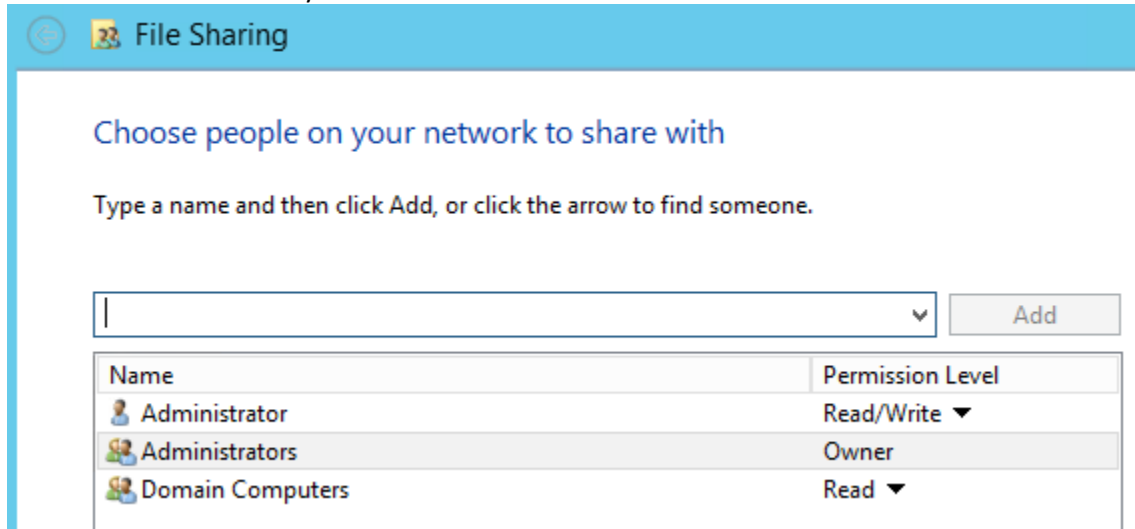
You should put the msi files you downloaded in the previous section on a server share, in a separate folder. The documentation below will assume the folder is C:\secRMM_GPO_Install\v6.0.2.0 (please use the correct secRMM version number if you use the version within the folder name). We will share the folder C:\secRMM_GPO_Install\v6.0.2.0 so Active Directory can access it. In the screen shot below, you can see the name of the server is \\W2008R2X64DC and the share for C:\secRMM_GPO_Install\v6.0.2.0 is named v6.0.2.0. Therefore, other computers can access this share at \\W2008R2X64DC\v6.0.2.0.



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Note the share permission below. We allow the “Domain Computers” read access to this share. This will allow Active Directory access to the folder¹



Download the secRMM software

Now that the directory structure has been created, we will download the files to go into the directories. Go to <http://www.squadratechnologies.com>. Follow the screen shot below to get to the secRMM download page.

¹ The security in your environment might be set up differently. If this is the case and you are unsure of how to allow Active Directory to access this folder, please contact Squadra Technologies support for assistance in setting this up.

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The screenshot shows a web browser window with the URL `www.squadratechnologies.com/Products/secRMM/secRMMDownloads.aspx`. The Squadra Technologies logo and "Developed in USA" text are at the top. A navigation bar contains links: home, software (1), hardware, services, partners, and company. A sub-navigation bar shows "secRMM" (2). The main heading is "secRMM Downloads".

On the left, a sidebar menu includes: Overview, Download (3), Documentation, Video, Screenshots, Features, and Release Notes. Below the menu is an image of a USB drive and a padlock.

The main content area shows the breadcrumb "Home >> secRMM >> Downloads" and the instruction "Please specify your information to download secRMM." It states that clicking the submit button will redirect to the download page. The form contains the following fields:

- First Name: (4)
- Last Name: (4)
- E-mail:
- Company:
- Phone #:
- Country:

A "Submit" button (5) is at the bottom of the form.

If you have 64-bit and 32-bit computers in your environment, make sure to download both of the installation files. Each zip file that you download will contain the Windows installation file (the file will have a file extension of MSI). `secRMMInstallx64.zip` will contain `secRMMInstallx64.msi` and

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secRMMInstallx86.zip will contain secRMMInstallx86.msi.

Please select a link(s) from the list below. Fully functional 30 day free trial.

Item	Download link
Prerequisite: Microsoft Universal C Runtime Update 3 (current MS patches contain this)	Microsoft download center
secRMM x64 install	secRMMInstallx64.zip
secRMM x86 install	secRMMInstallx86.zip

At the bottom of the secRMM download page, it will always show you the secRMM version you are downloading. You should write the version number down so that when we perform the AD GPO steps below we will have the secRMM version number.

Current Version **9.8.11.0** Posted Date: 12/22/2017

Extract the zip files and put the msi files into the share we created above.

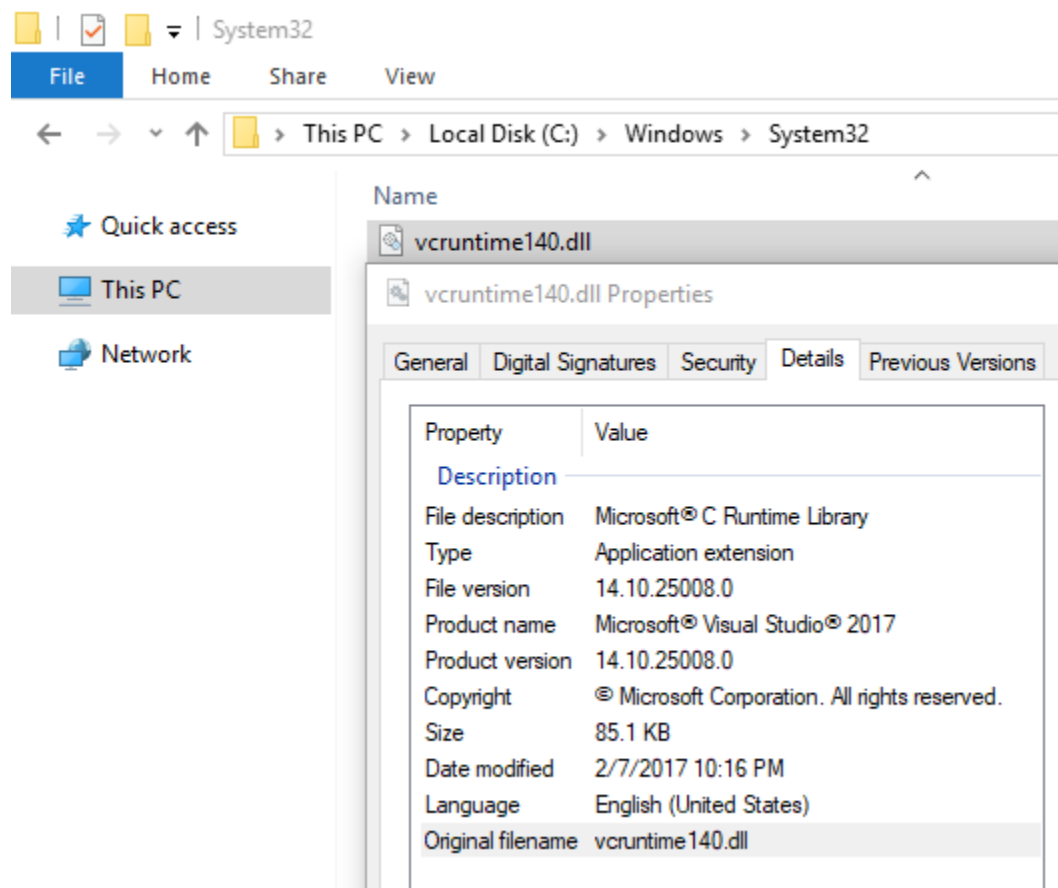
Download the Microsoft Prerequisite software

secRMM relies on the Microsoft Visual C++ Redistributable dlls. Currently, secRMM is using the “Microsoft Visual C++ 2015 Redistributable Update 3”. If you are keeping current with Microsoft updates, this should already be installed on your systems. If your systems do not already have “Microsoft Visual C++ 2015 Redistributable Update 3” installed (see below on how to check if you have it already installed), please refer to the “**secRMM Prerequisites Installation Guide**” available from the Squadra Technologies web site (the same page where you received this installation guide).

Checking for the Microsoft Prerequisite software

To see if the “Microsoft Visual C++ 2015 Redistributable Update 3” dlls are already on your systems, you can check in the Windows\system32 directory for a dll named vcruntime140.dll.

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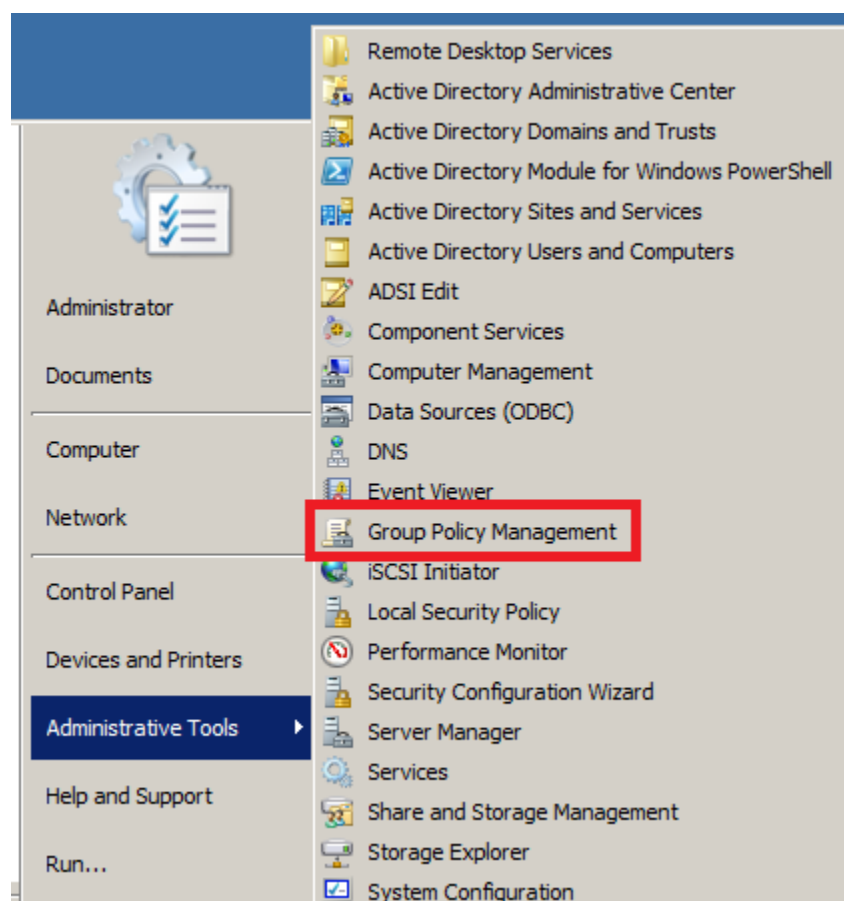


If the “Microsoft Visual C++ 2015 Redistributable Update 3” dlls are not on your systems and you install secRMM, secRMM will generate an error (“Provider load failure”) and will not be able to function properly.

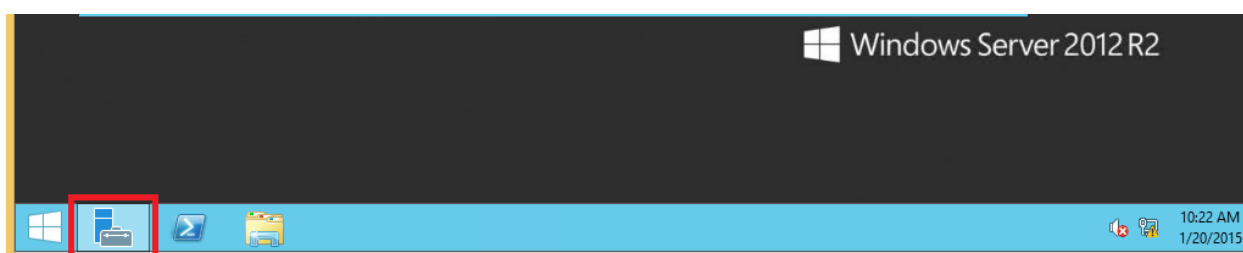
Creating Group Policy Objects

If you are on a server prior to Windows 2012, you will access the “Group Policy Management” MMC as shown below. If you are on Windows 2012 or greater, please use the next screenshot.

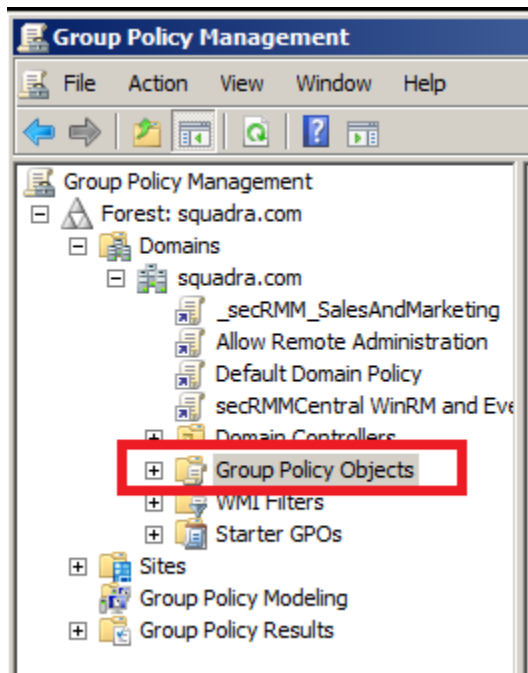
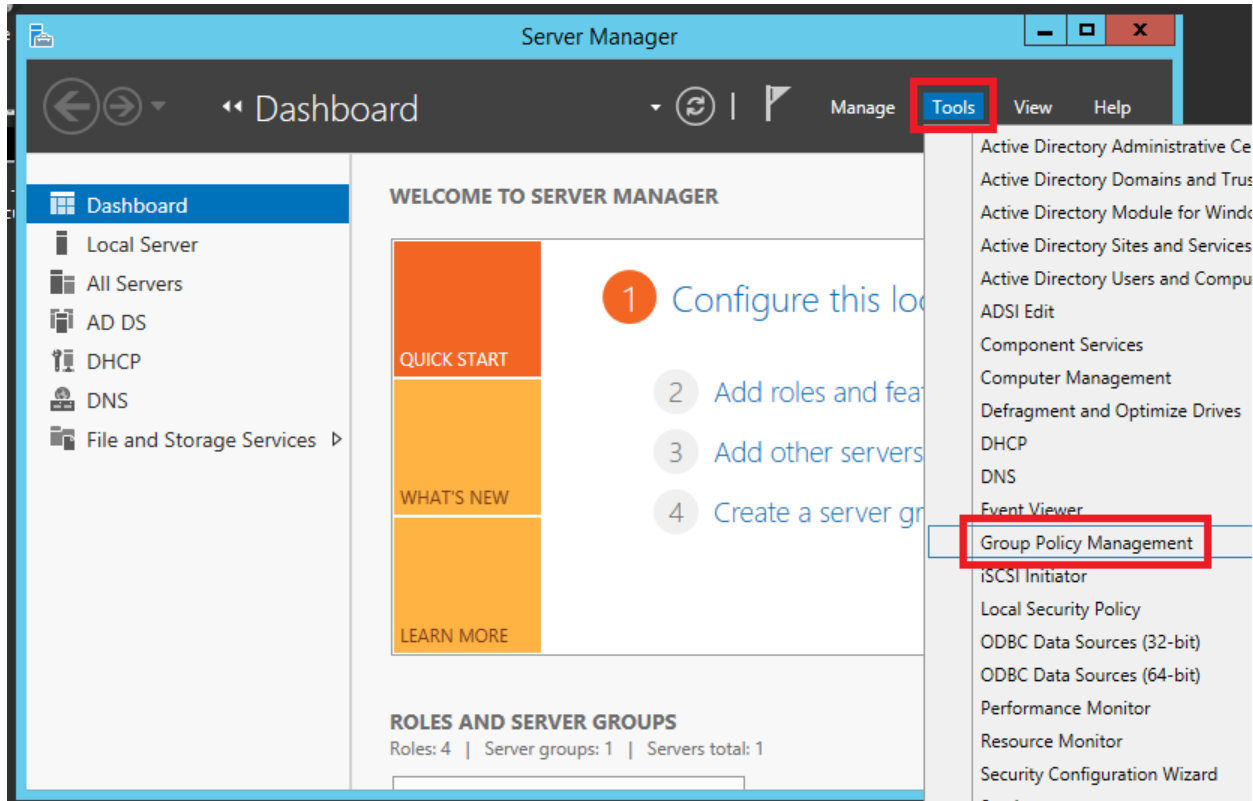
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If you are on a Windows 2012 server, you will access the “Group Policy Management” MMC from the “Server Manager” Window as shown in the screen shots below.

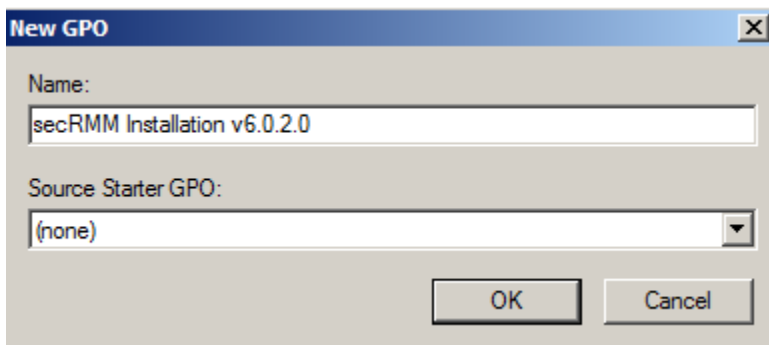
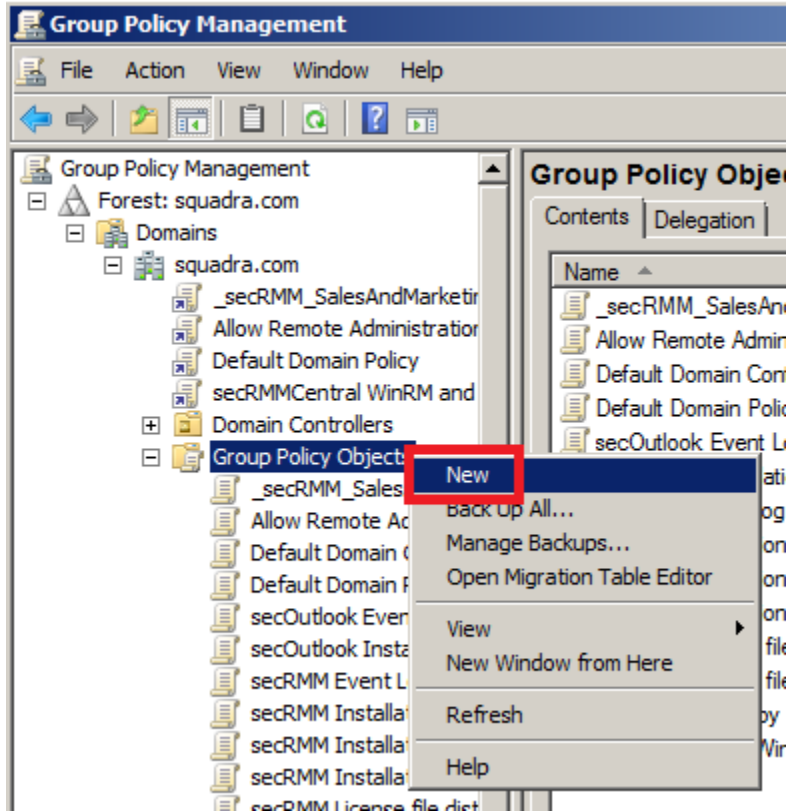


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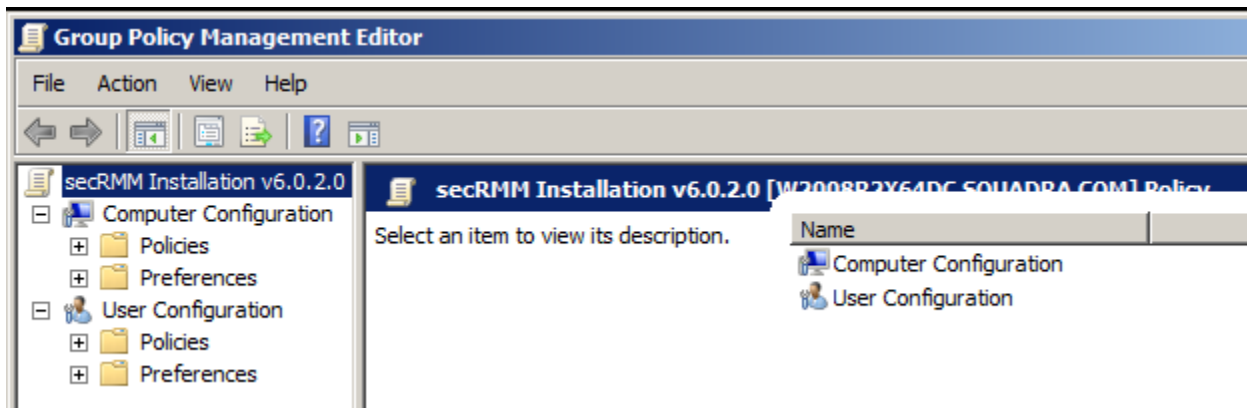
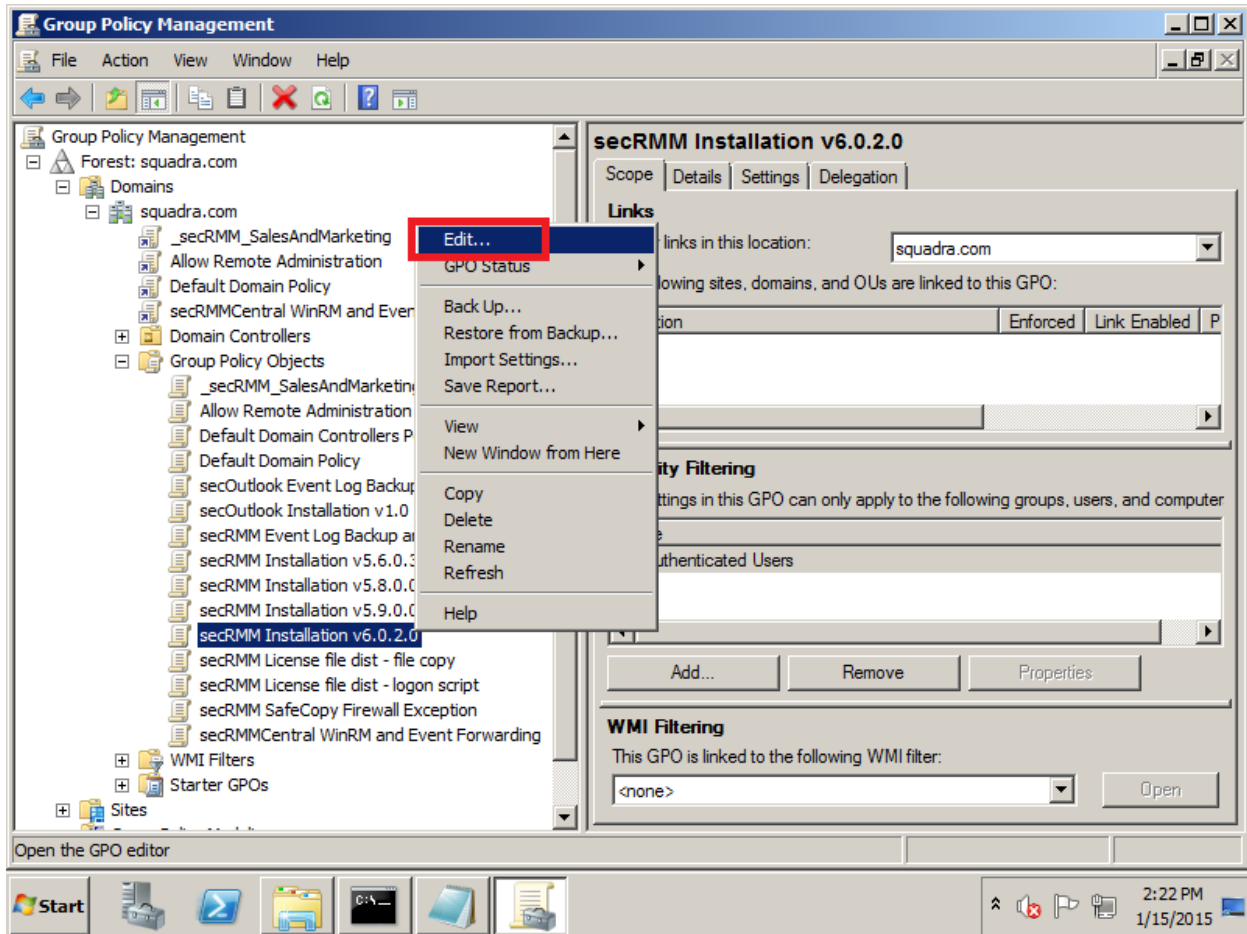
secRMM installation

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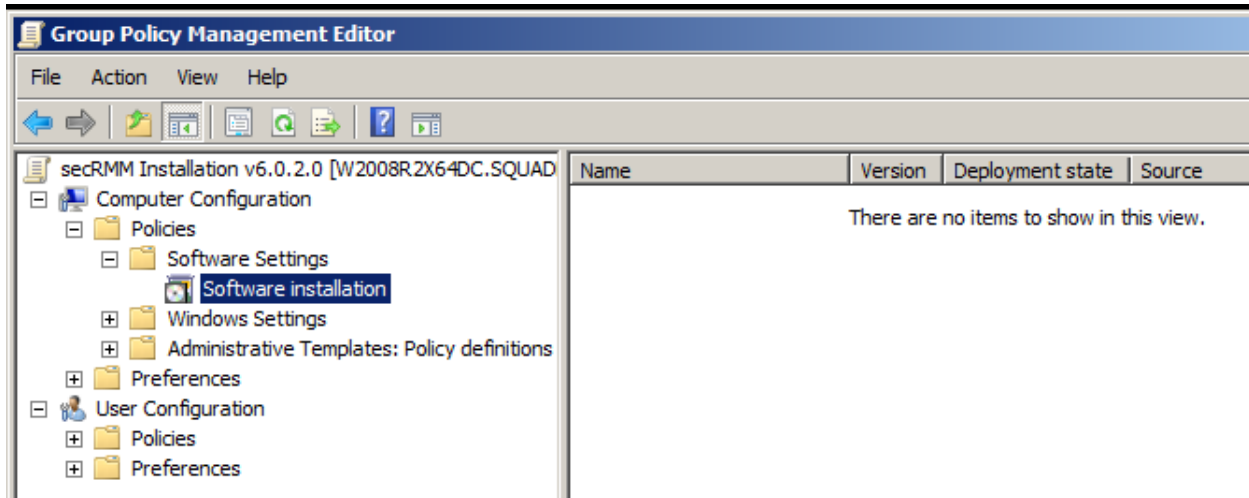


Now in the list of defined GPOs, you will see the new GPO.
Right mouse click on the new GPO and in the popup menu, select Edit.

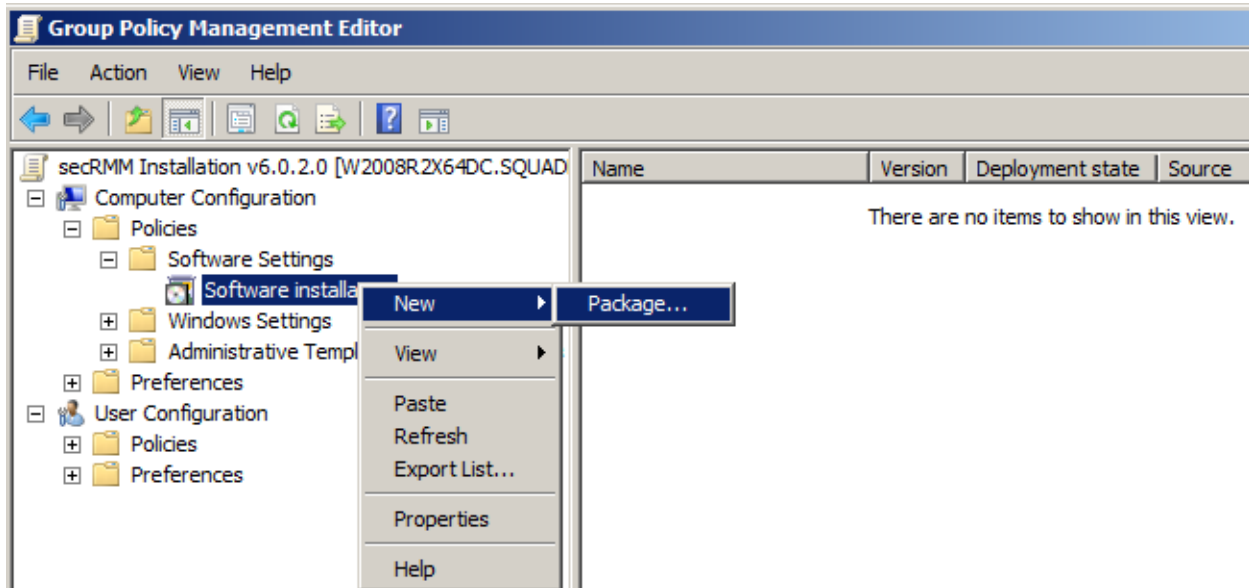
secRMM Active Directory Installation Guide



secRMM Active Directory Installation Guide

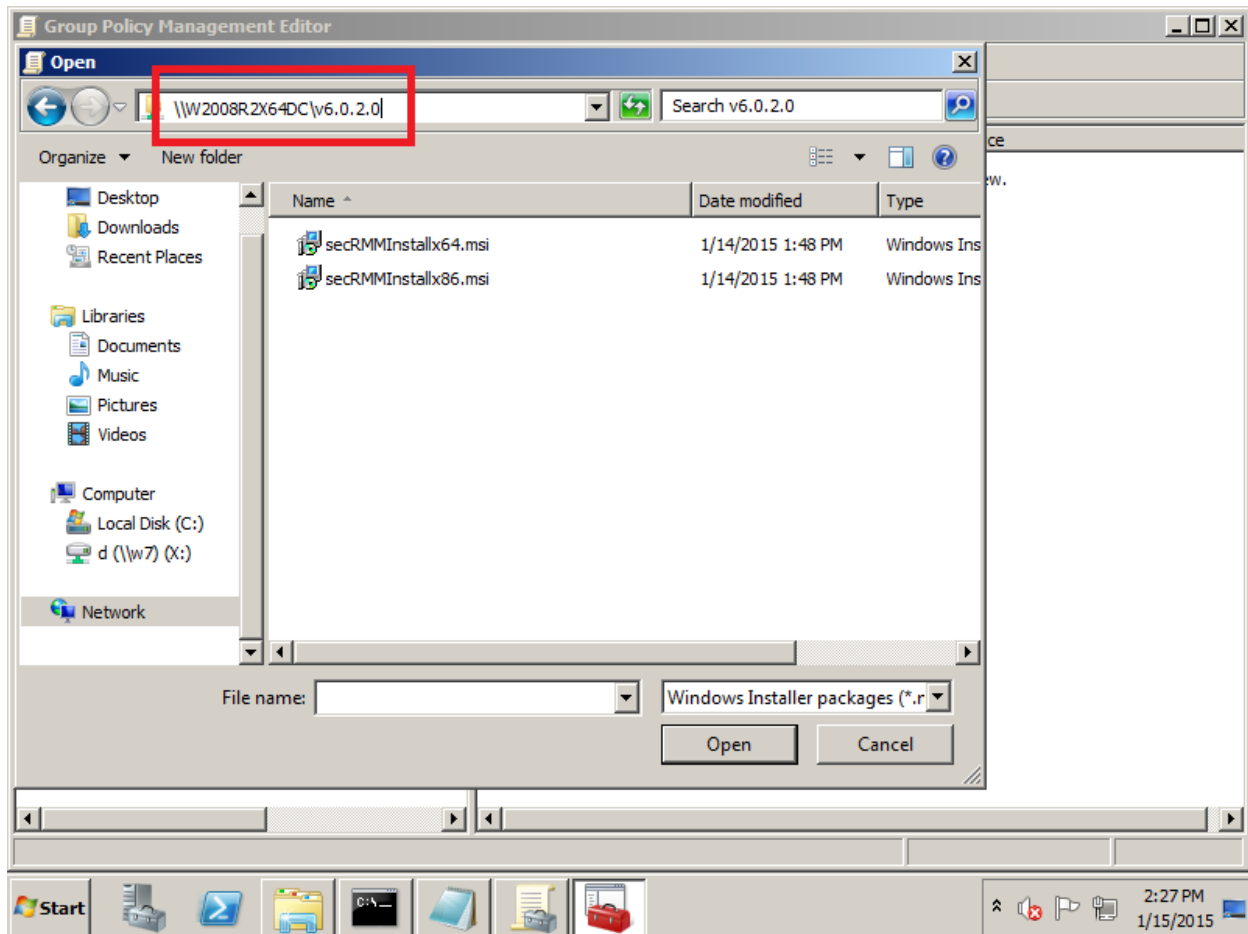


Right mouse click on “Software installation” and in the popup menu, select New->Package.

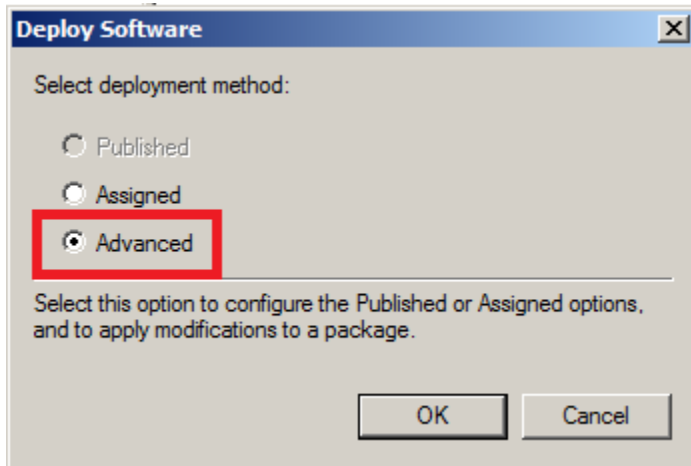
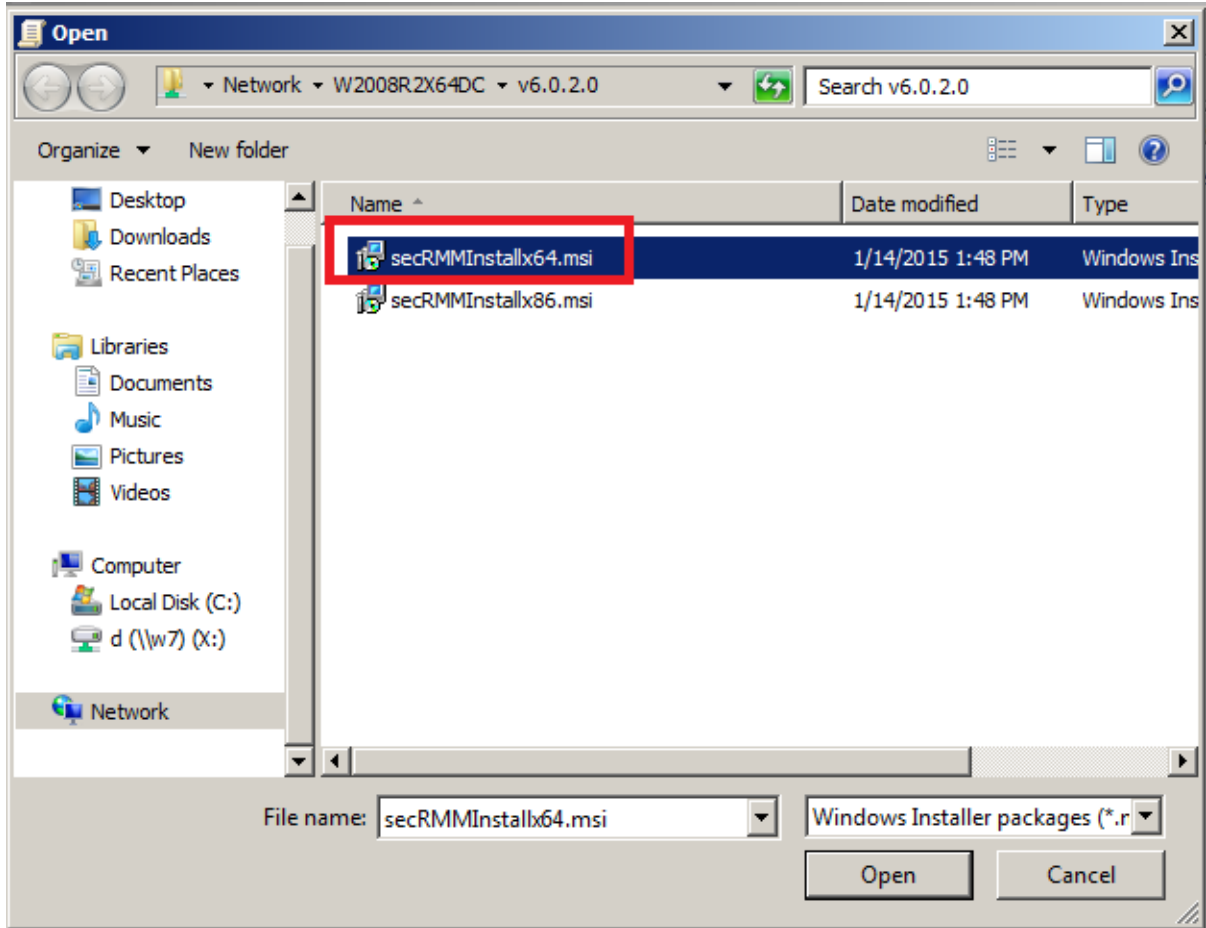


Go to the network share you created above (note: make sure you do not use the local drive here...you MUST use the network share name) and select the secRMMInstallx64.msi file.

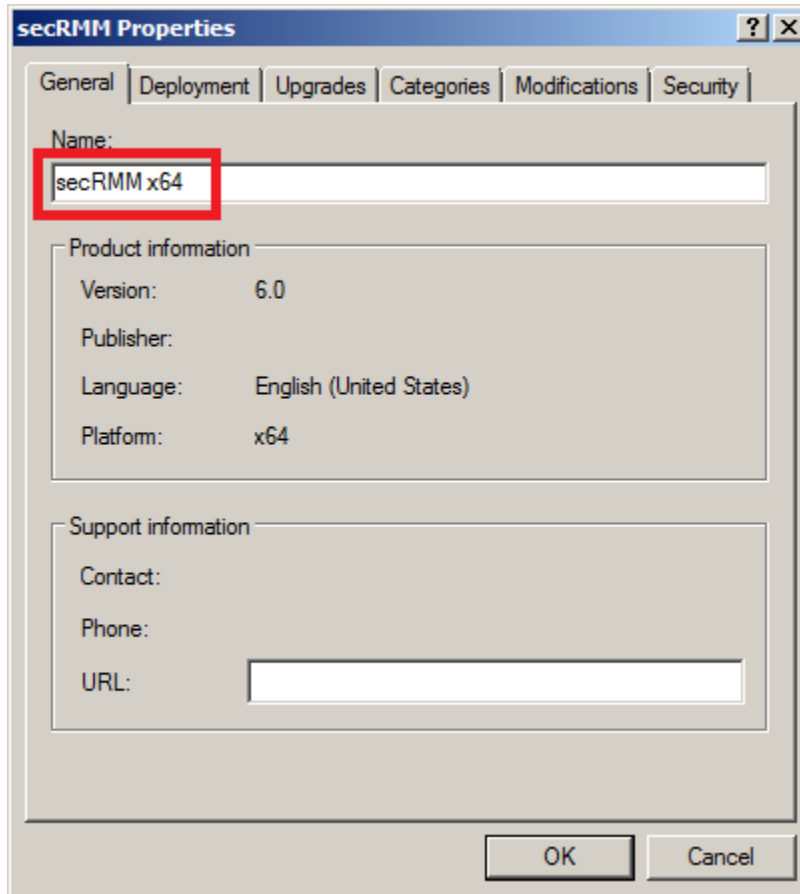
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On the General tab, change the name from “secRMM” to “secRMM x64”.

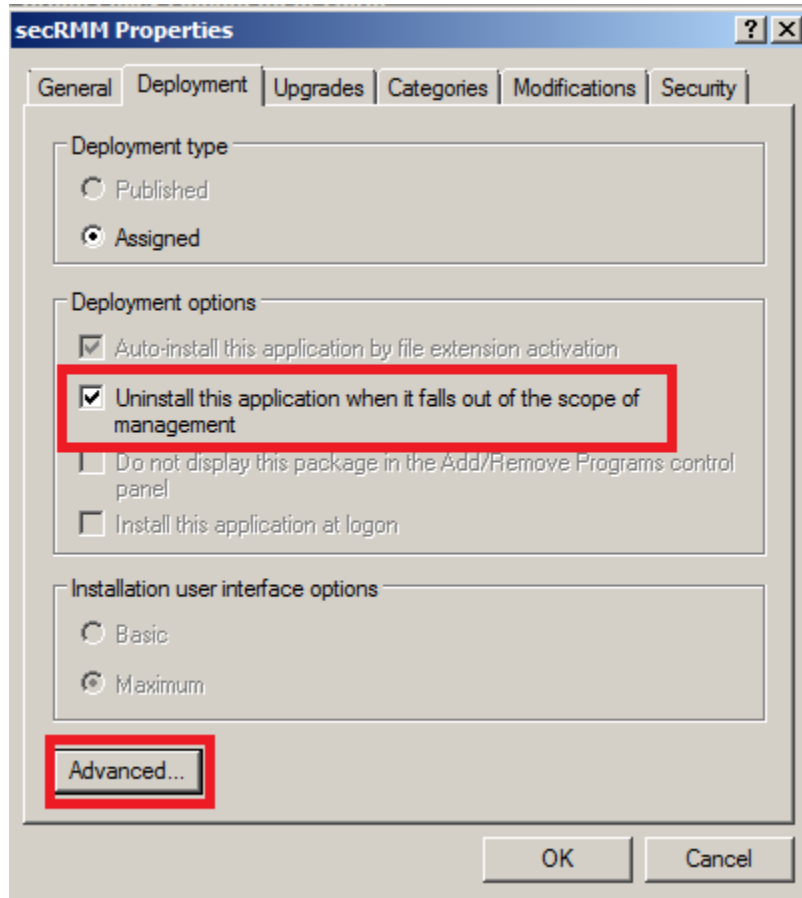


The screenshot shows the 'secRMM Properties' dialog box with the 'General' tab selected. The 'Name' field is highlighted with a red rectangle and contains the text 'secRMM x64'. Below the name field are two sections: 'Product information' and 'Support information'. The 'Product information' section contains fields for 'Version' (6.0), 'Publisher', 'Language' (English (United States)), and 'Platform' (x64). The 'Support information' section contains fields for 'Contact', 'Phone', and 'URL' (which is empty). At the bottom right are 'OK' and 'Cancel' buttons.

Product information	
Version:	6.0
Publisher:	
Language:	English (United States)
Platform:	x64

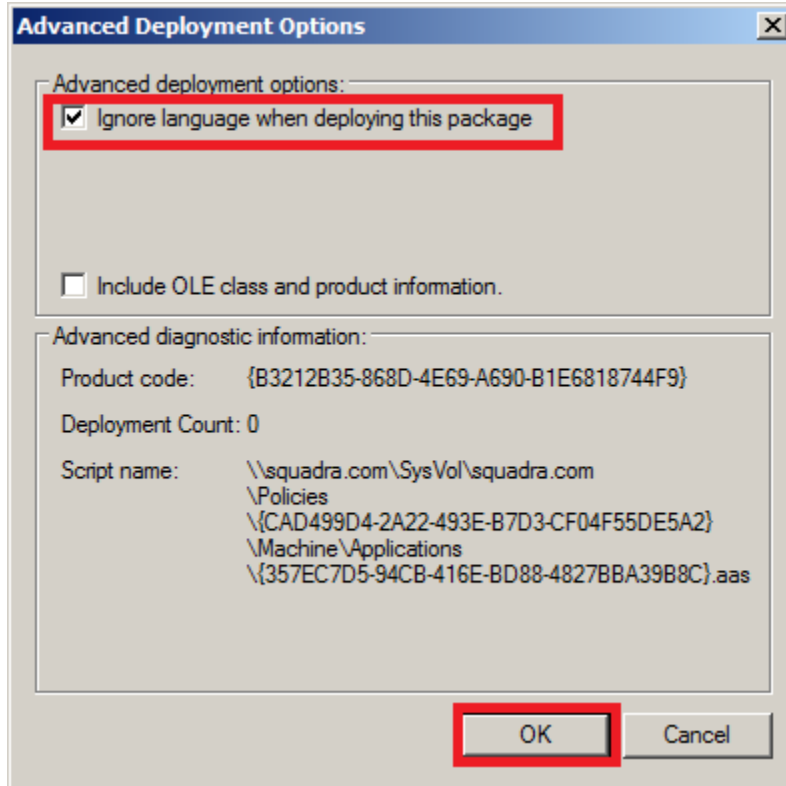
Support information	
Contact:	
Phone:	
URL:	

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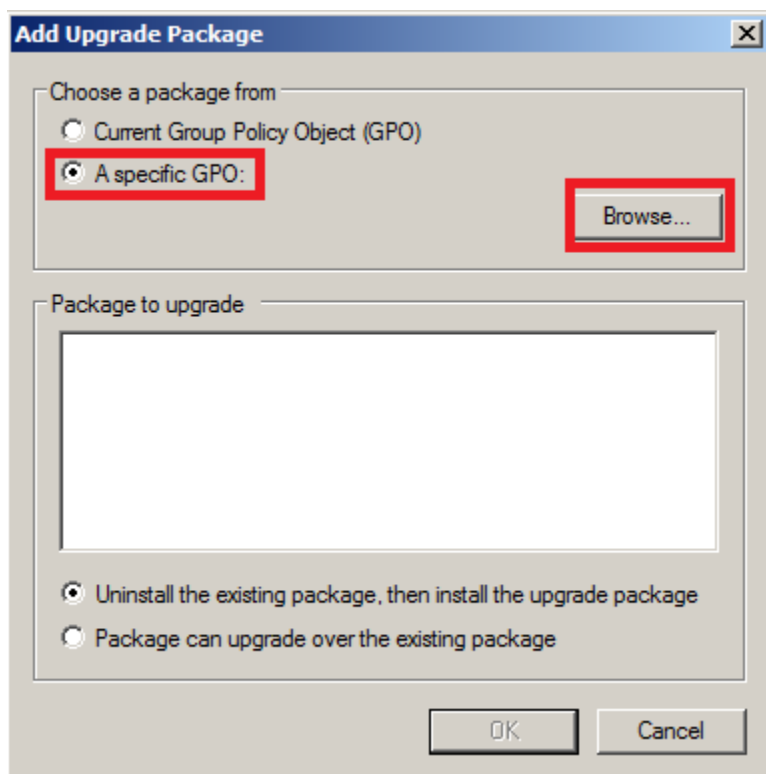
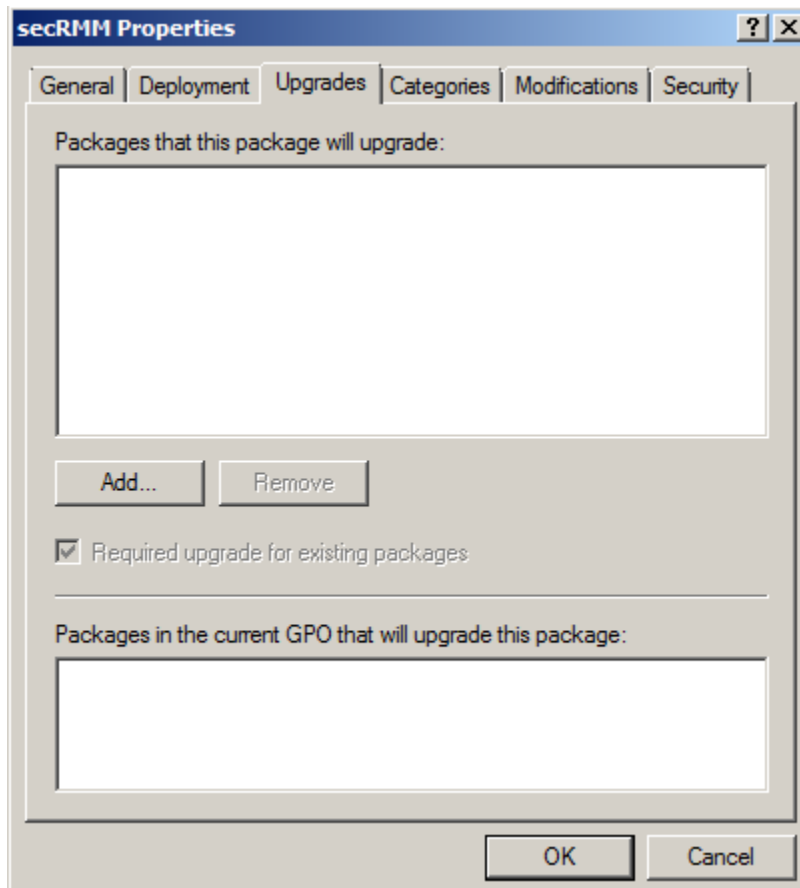


When you click the “Advanced” button, another dialog will open:

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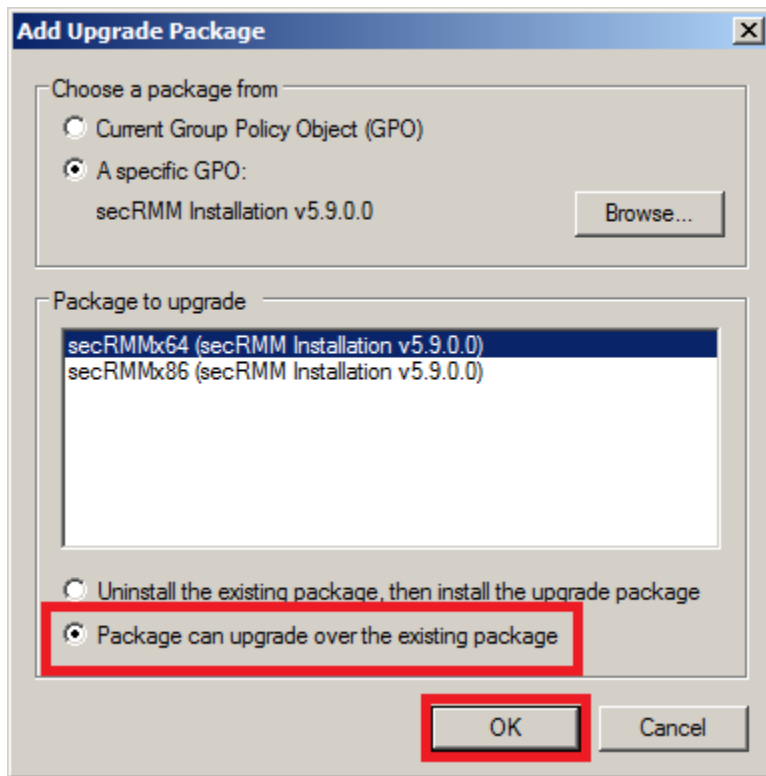
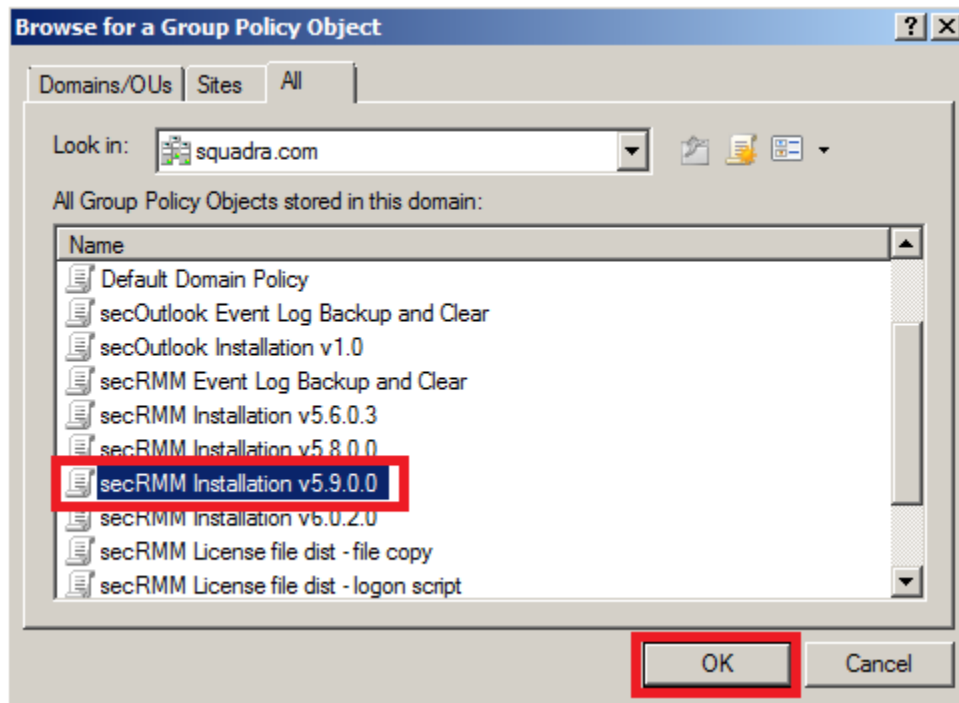


If you have already deployed secRMM and are upgrading, click the “Upgrades” tab and add the previous secRMM installation GPO. If you are deploying secRMM for the first time, you will skip this step.

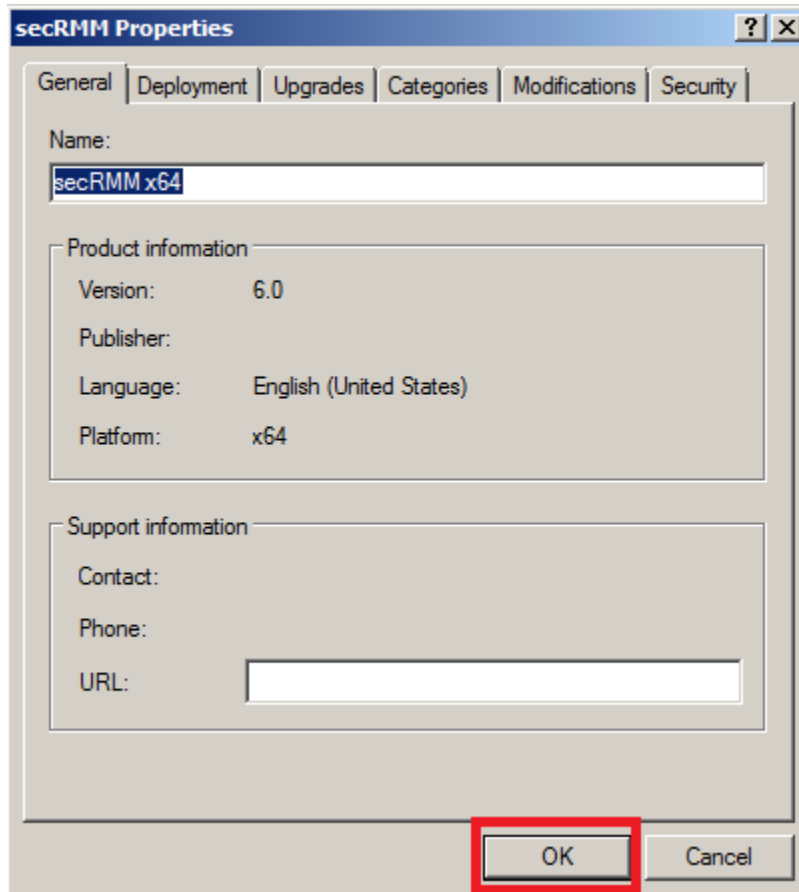


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In the screenshot below, we are upgrading from secRMM version 5.9.0.0. The secRMM version deployed in your environment may be different. Chose the version that is deployed in your environment.



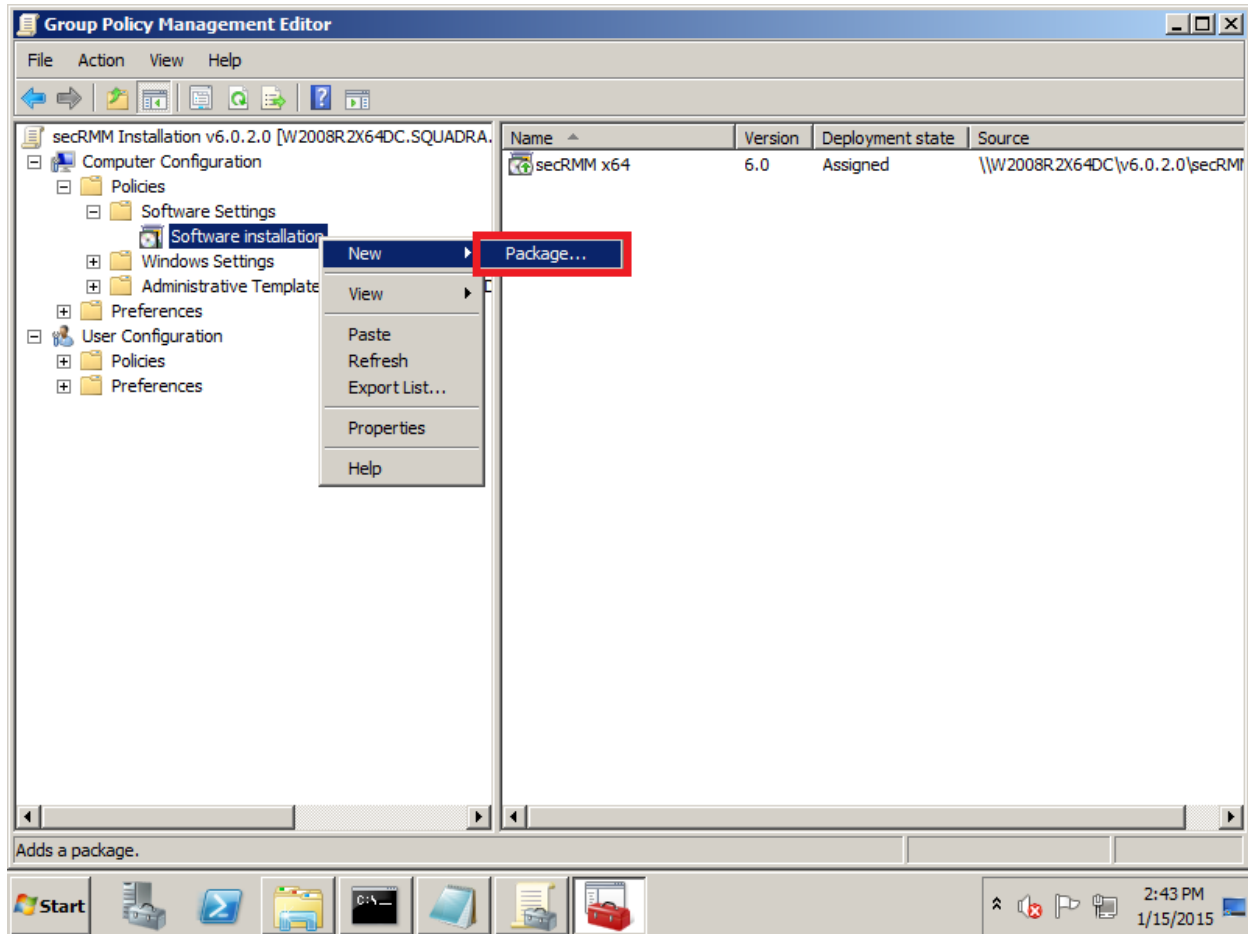
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Now we can add the secRMMInstallx86 (i.e. 32 bit) file.

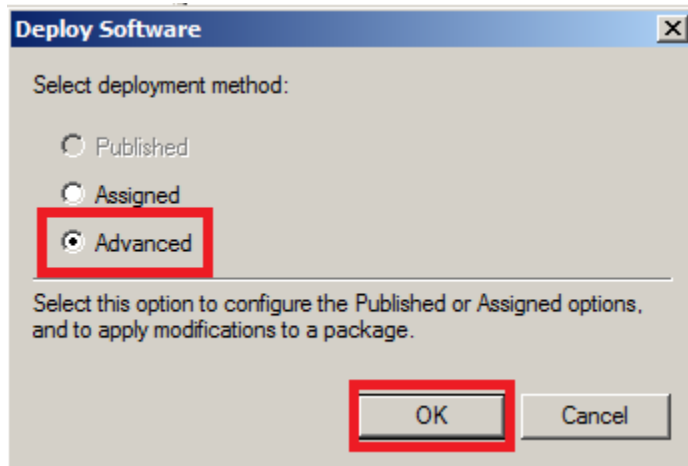
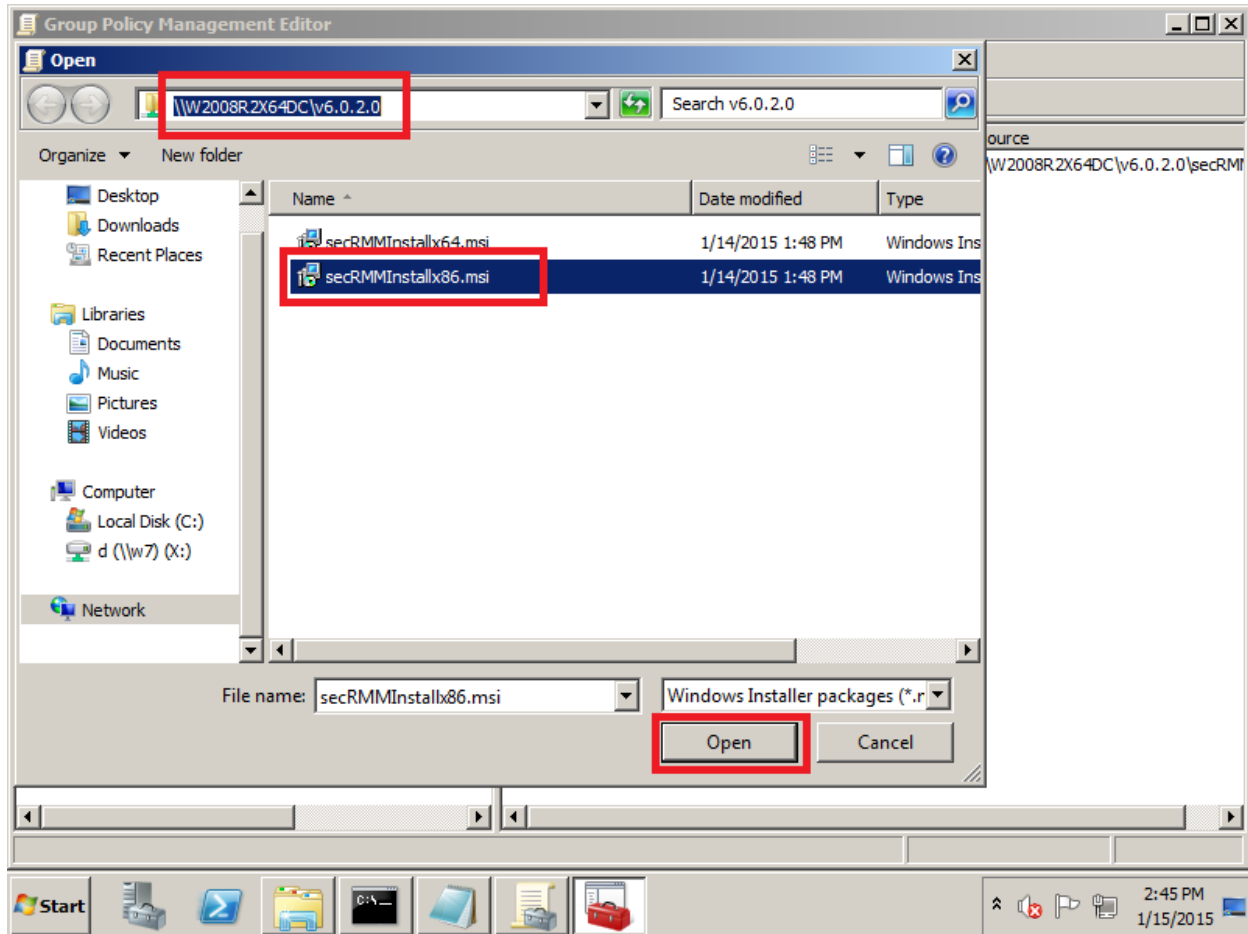
Right mouse click on "Software installation" again and in the popup menu, select New->Package.

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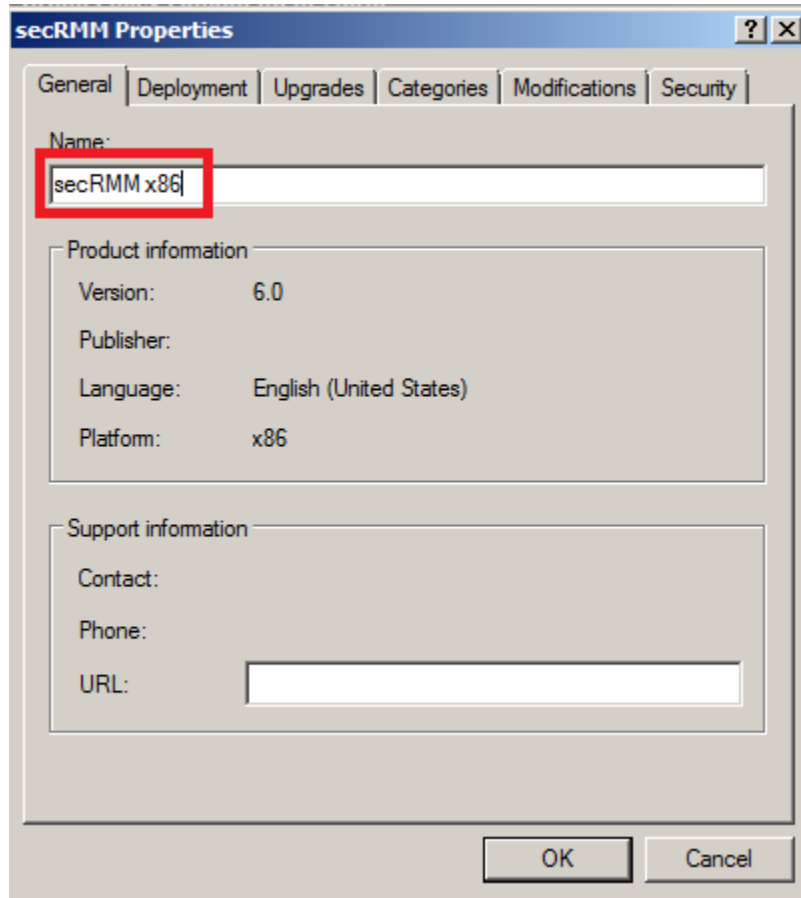


Go to the network share you created above (note: make sure you do not use the local drive here...you MUST use the network share name) and select the secRMMInstallx86.msi file.

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On the General tab, change the name from “secRMM” to “secRMM x86”.



The image shows a Windows-style dialog box titled "secRMM Properties". It has a tabbed interface with the following tabs: "General", "Deployment", "Upgrades", "Categories", "Modifications", and "Security". The "General" tab is currently selected. Inside the "General" tab, there is a "Name:" label followed by a text input field containing the text "secRMM x86". This text field is highlighted with a red rectangular box. Below the "Name:" field, there are two grouped sections. The first section is titled "Product information" and contains four labels with corresponding values: "Version:" with the value "6.0", "Publisher:" (empty), "Language:" with the value "English (United States)", and "Platform:" with the value "x86". The second section is titled "Support information" and contains three labels: "Contact:" (empty), "Phone:" (empty), and "URL:" followed by an empty text input field. At the bottom right of the dialog box, there are two buttons: "OK" and "Cancel".

secRMM Properties

General | Deployment | Upgrades | Categories | Modifications | Security

Name:

secRMM x86

Product information

Version: 6.0

Publisher:

Language: English (United States)

Platform: x86

Support information

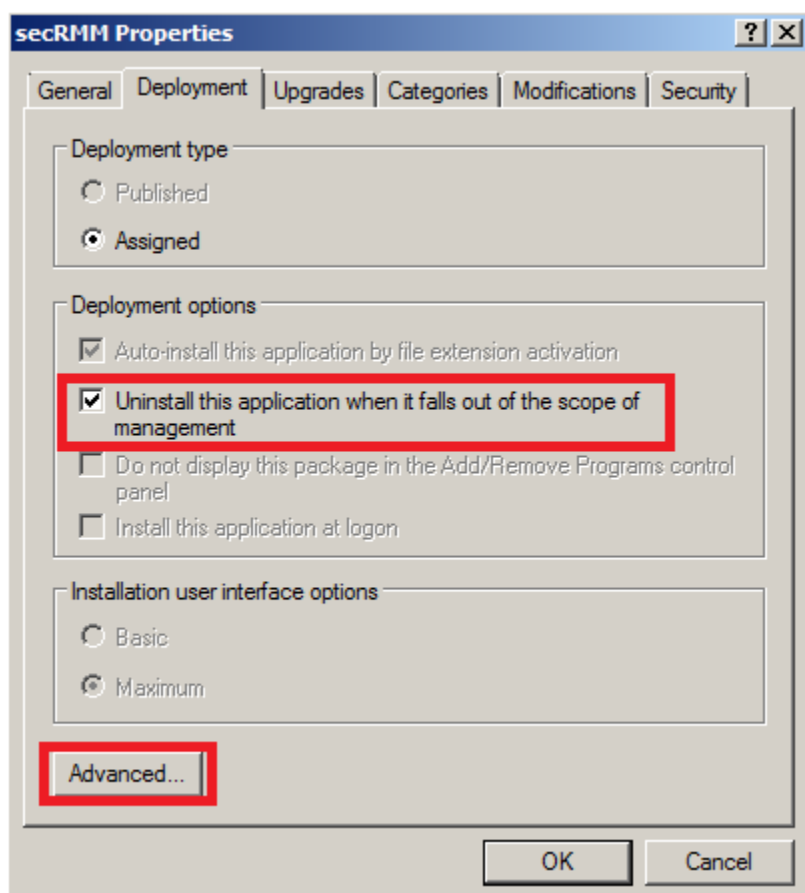
Contact:

Phone:

URL:

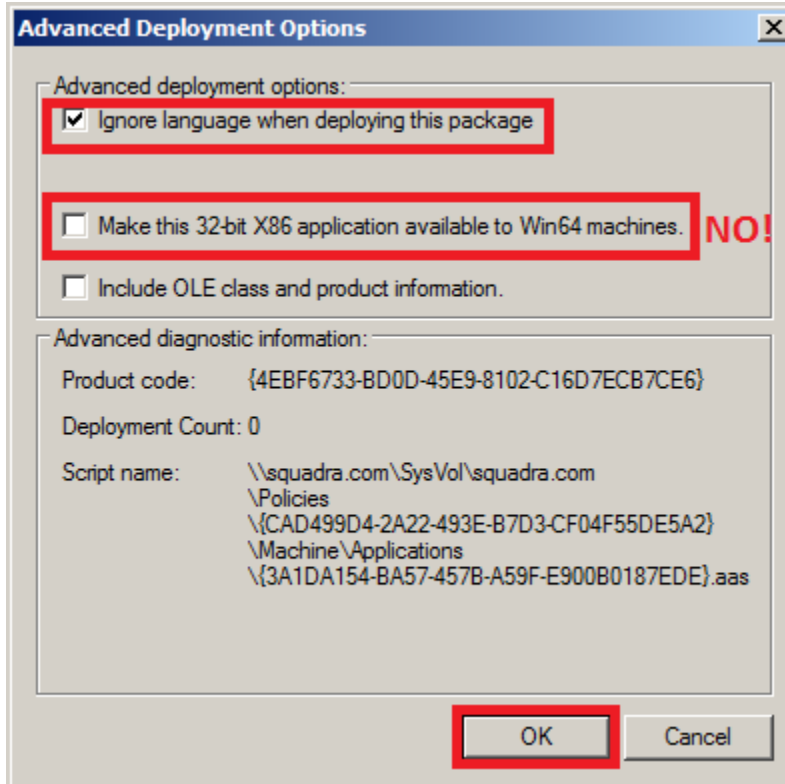
OK Cancel

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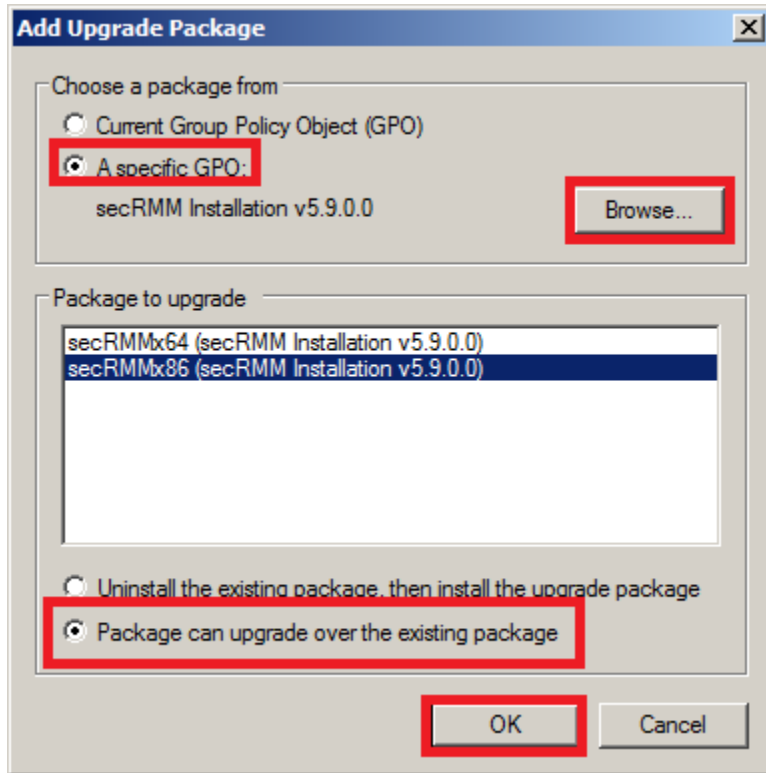
Make sure that you **UNCHECK** the "Make this 32-bit X86 application available to Win64 machines." checkbox.

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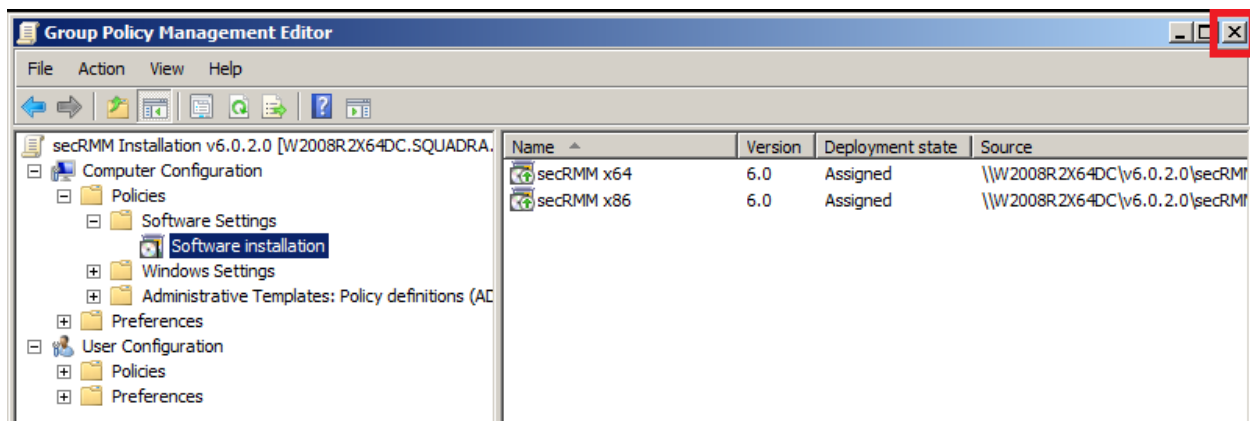


If you have already deployed secRMM and are upgrading, click the “Upgrades” tab and add the previous secRMM installation GPO (the screen shots will be mostly the same as above so we will not list them all below). If you are deploying secRMM for the first time, you will skip this step.

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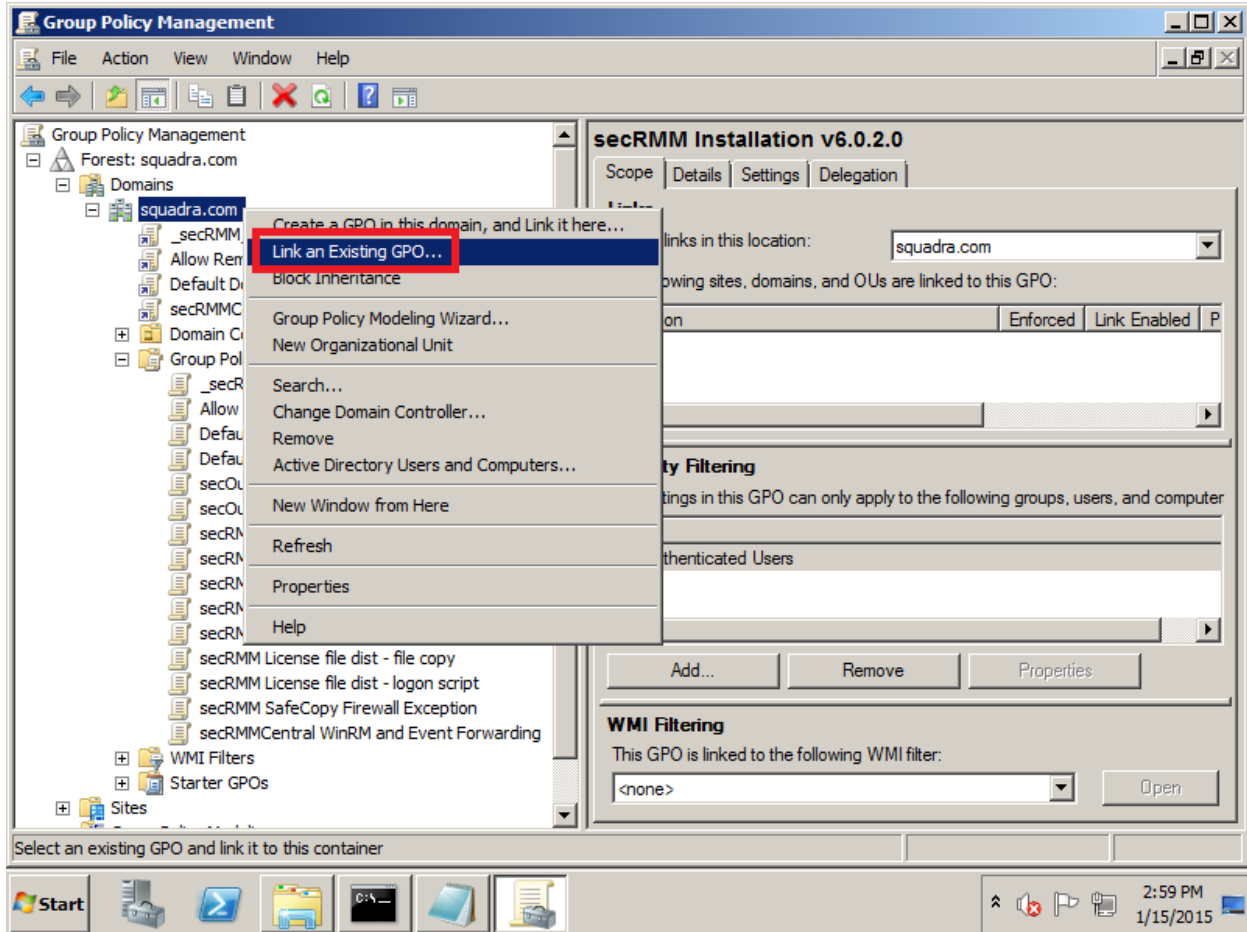


The secRMM Installation GPO is now complete. You can close the GPO Editor by clicking the X in the upper right hand corner of the dialog.



The final step is to “link” the GPO you just created to computers in your domain. In the screenshot below, we will link the GPO so that all the computers in the domain get secRMM installed.

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Customizing the installation

You can customize the Group Policy software installation by specifying Microsoft Transform files (MST). secRMM supplies a MST file for each property (variable) that can be overridden at the command line. The name of the MST file is also the name of the installation property. The secRMM MST files are in the secRMMDeployment.zip (in the MSI_Transforms directory) which you can download from the Squadra Technologies web site.

The MST files are:

- ADDSAFECOPYFIREWALLRULE.mst
- ARPSYSTEMCOMPONENT.mst
- PREVENTALLPROGRAMSPINNING.mst
- PREVENTSTARTMENUPINNING.mst
- REQUIRESAFECOPYPREAPPROVAL.mst
- SAFECOPYISALLOWEDPROGRAM.mst
- SECRMMLOCKDOWNMODE.mst

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Linking the installation GPO

Now you are ready to associate this Group Policy Object to your domain. In the Group Policy Management console, right mouse click on your domain and select “Link an Existing GPO...”.

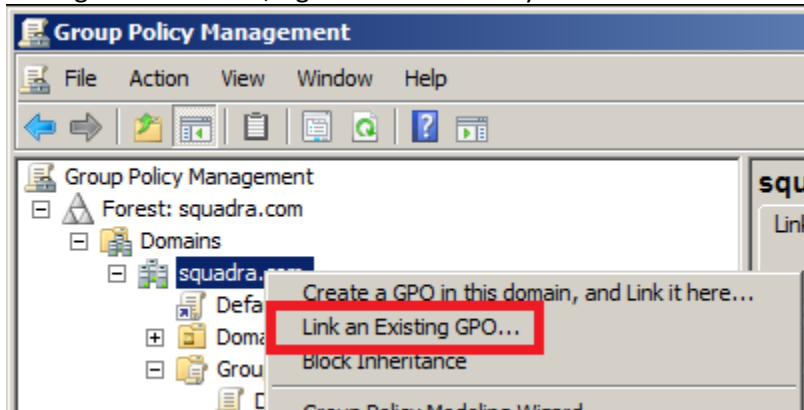


Figure 1 - Linking the software installation GPO to the domain

Select the “Install secRMM” GPO.

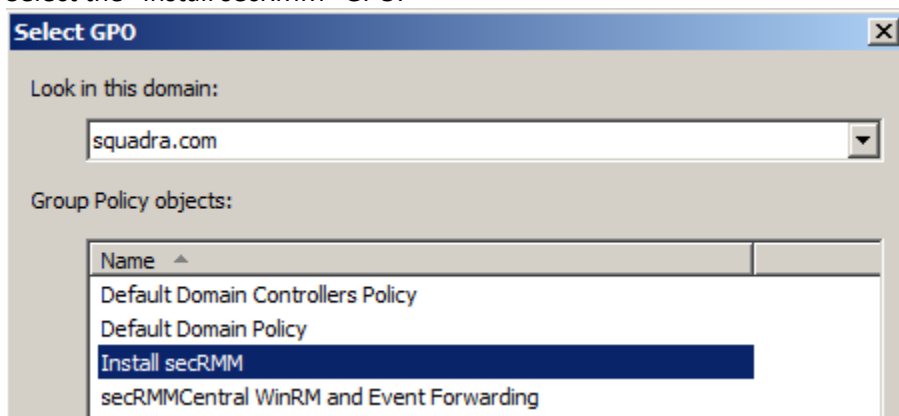
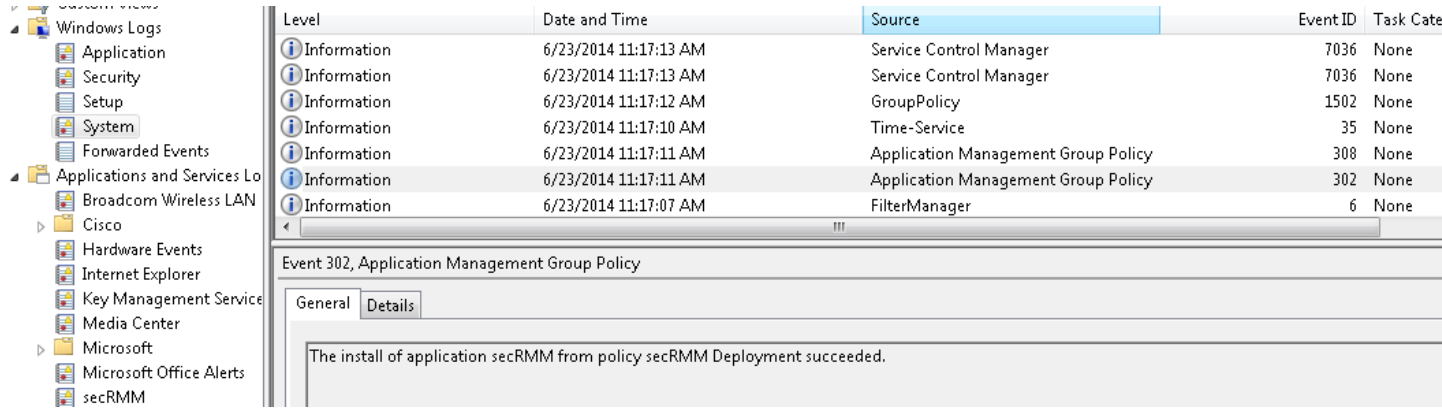


Figure 2 - Linking the "Install secRMM" GPO to the domain

To ensure that your GPO will work, choose a test system and run “gpupdate /force” from an elevated command prompt. This will apply the GPO to the system (i.e. install secRMM). You will need to reboot the system at this time.

Once the reboot has occurred, you can verify the installation by looking in the System event log for an Event ID of 302 for secRMM as shown below.

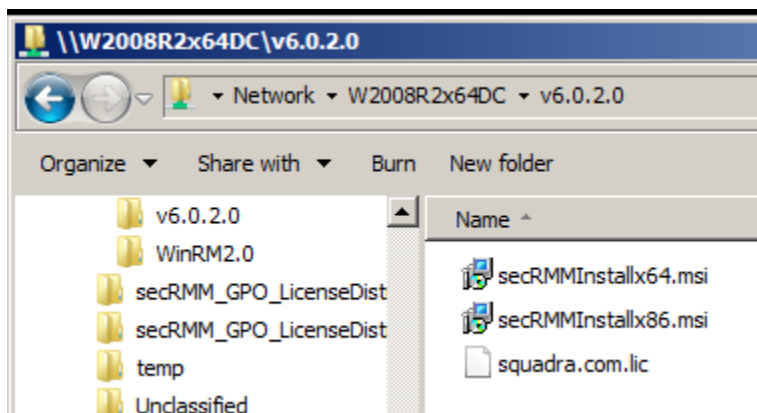
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secRMM License file

The secRMM license file needs to be copied to each computer running secRMM in your environment. You receive the secRMM license file from Squadra Technologies. If you are deploying secRMM with Active Directory for a test and do not yet have a secRMM license file, you can skip this step. Once you do get a secRMM license file, you can come back to this section.

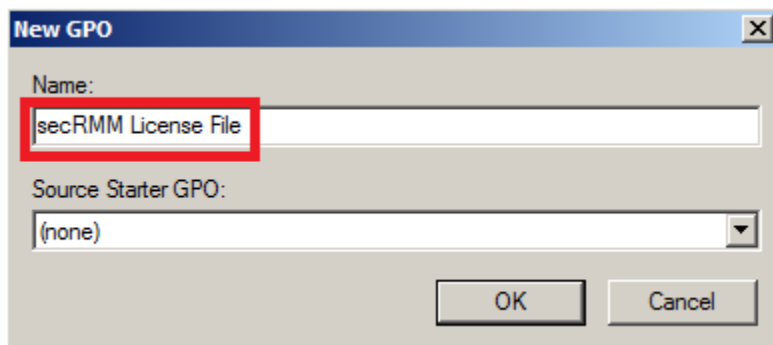
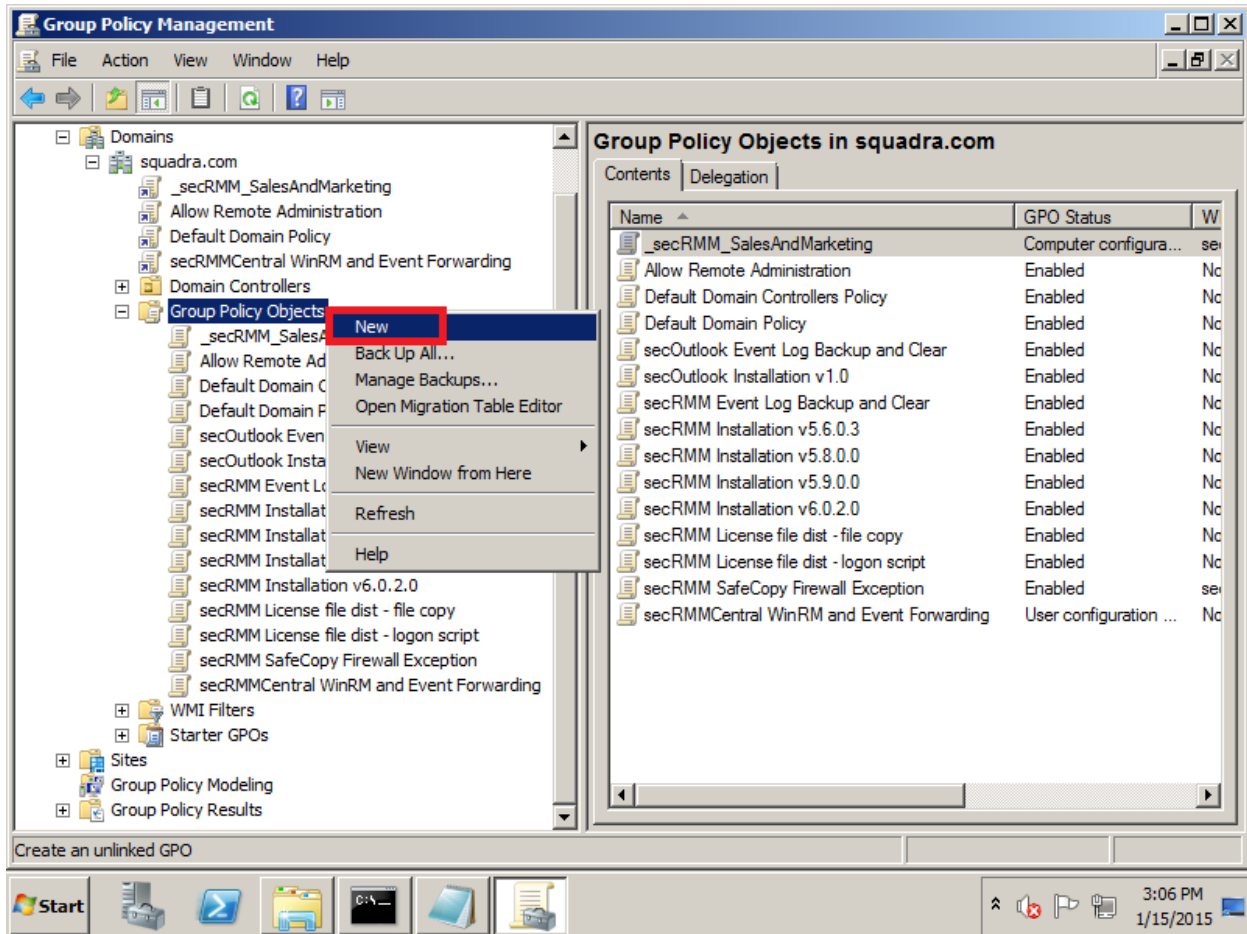
Under the network share we created earlier for the installation/deployment, put the secRMM license file into this folder. Your secRMM license file will have a name similar to your domain name, assuming you purchased a domain license². In this document, we will use the name **squadra.com.lic** for the license file. Be sure though that you change **squadra.com.lic** to be the actual file name you received from Squadra Technologies (we will point out each place you need to make a change below).



Right mouse click on “Group Policy Objects” and select “New”.

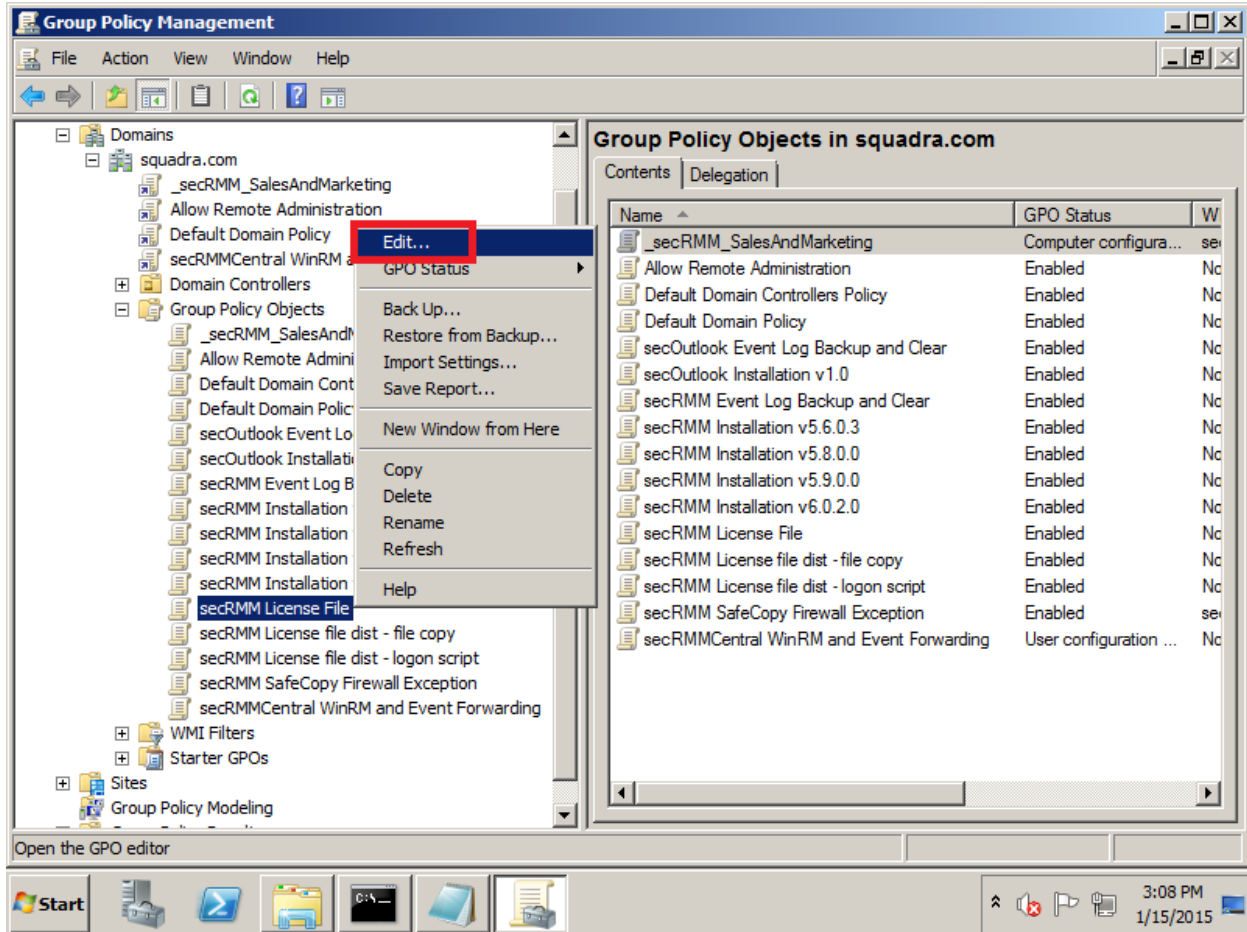
² If you purchased a “per computer” license, please use the steps in the secRMM Administrators Guide under the section named Licensing.

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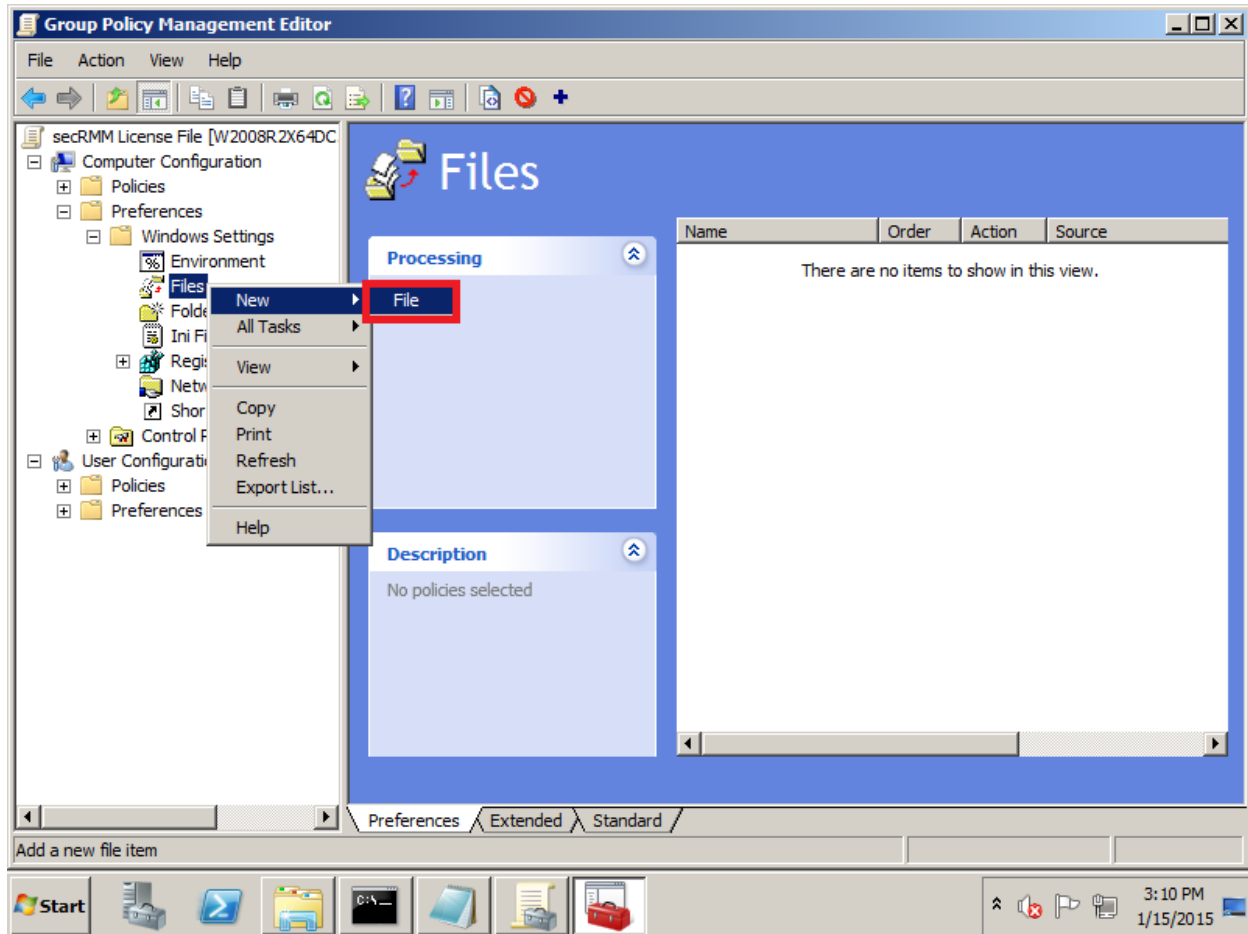
Right mouse click on the new GPO and select "Edit".

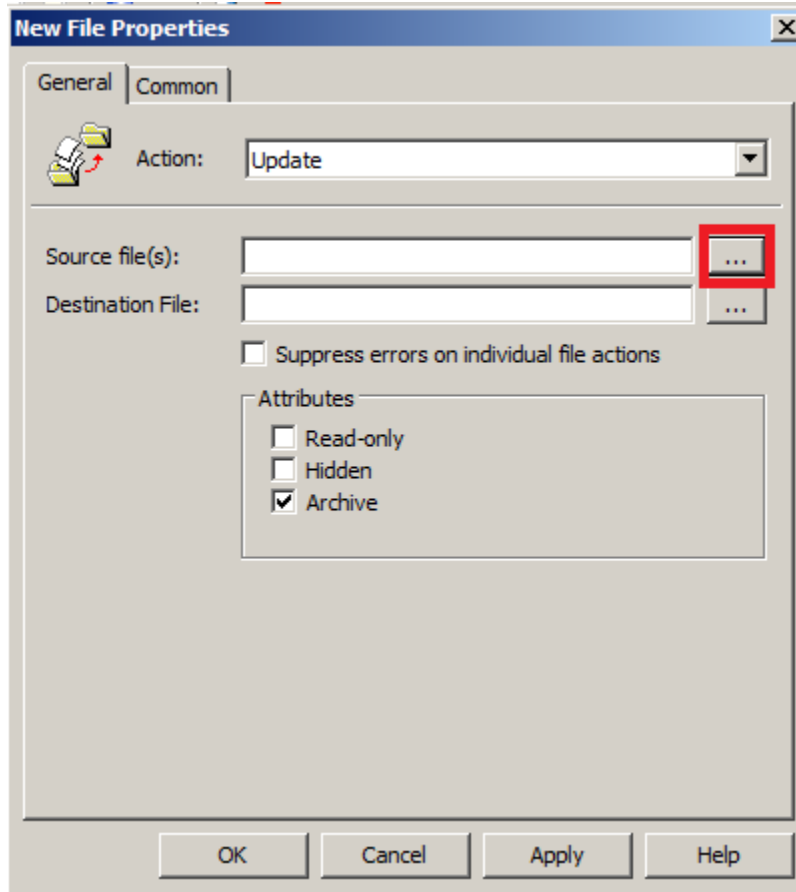
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Expand the treeview to “Computer Configuration”->“Preferences”->“Windows Settings”->Files
Right mouse click on “Files” and from the popup menu, select New->File.

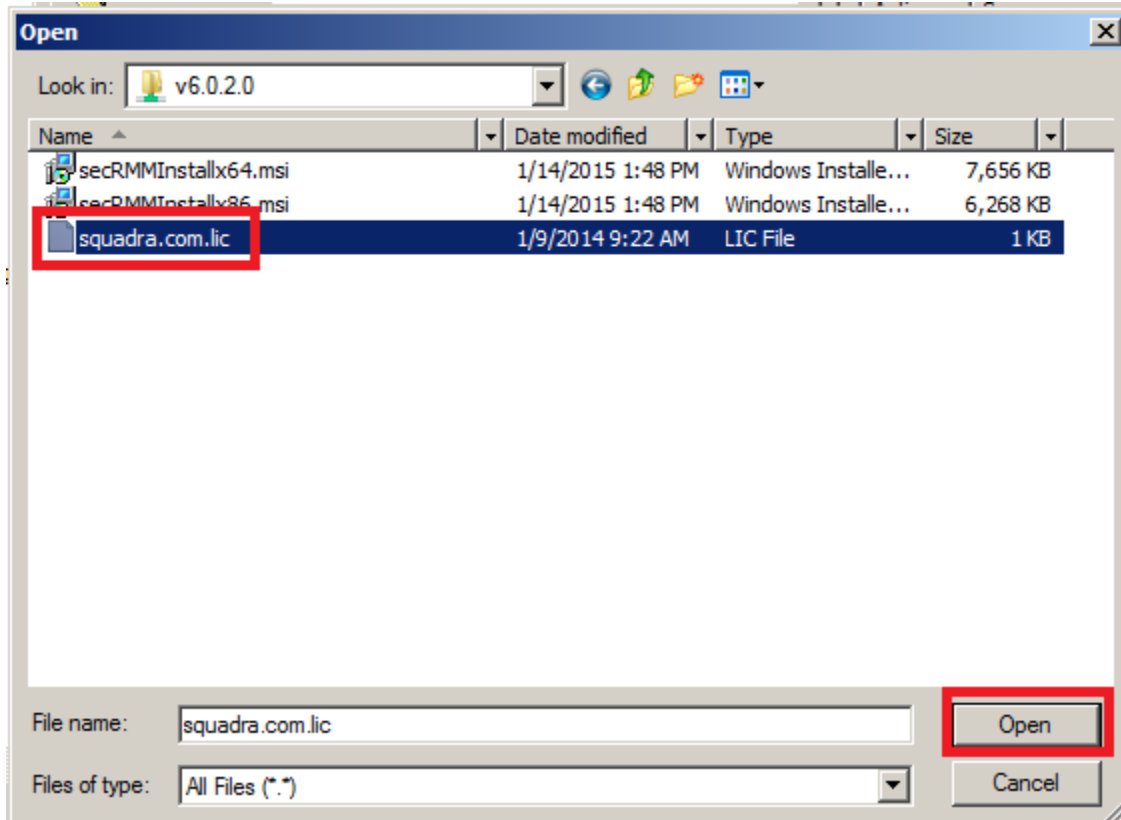
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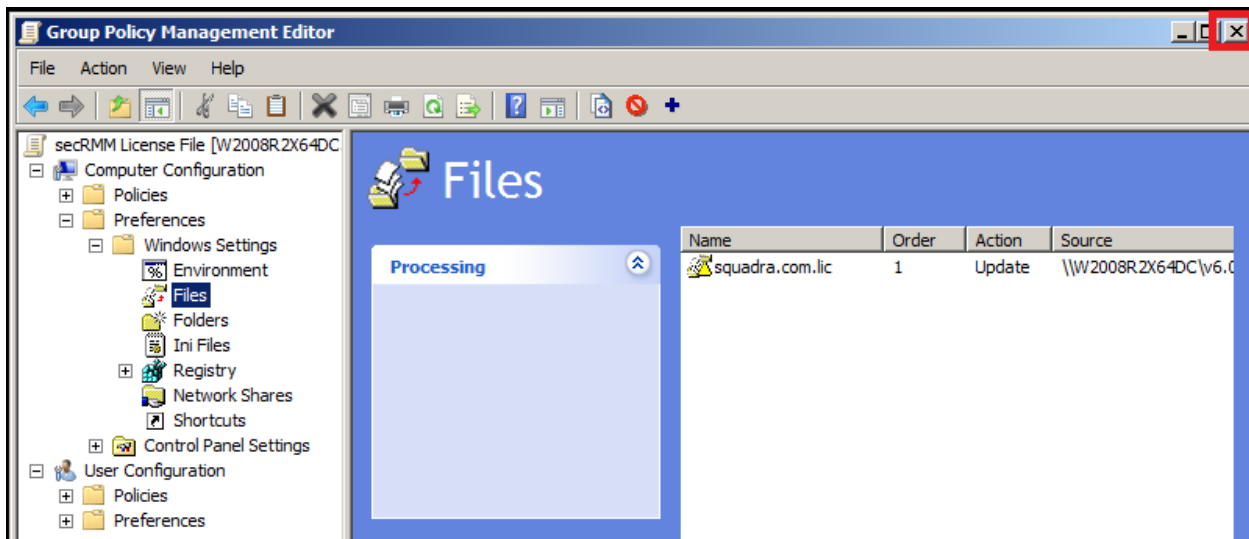
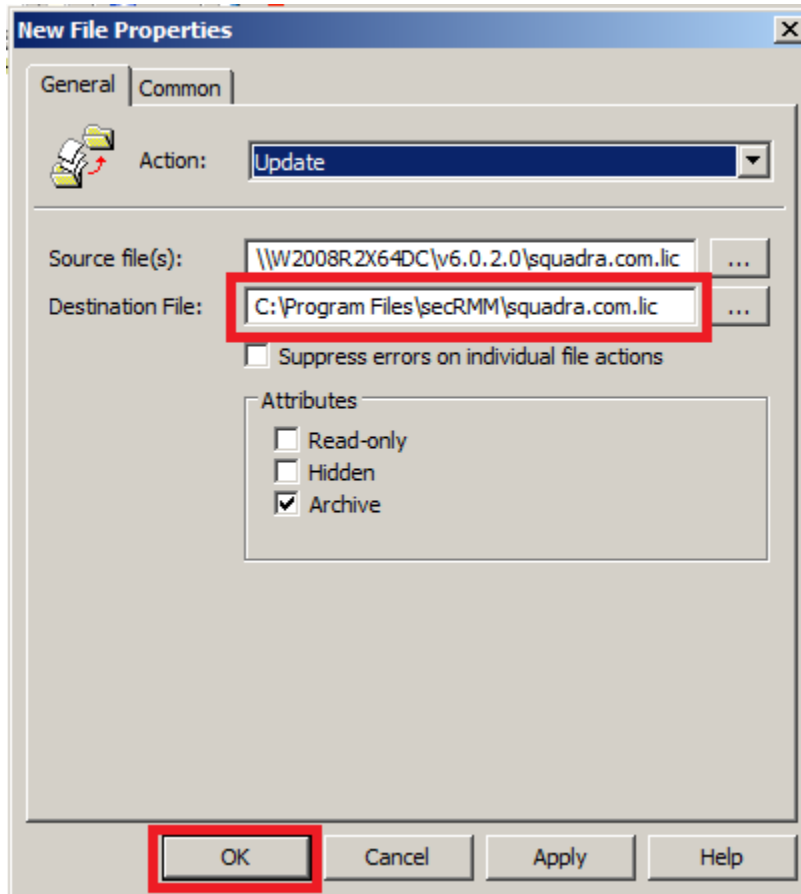
Remember, your license file name will be different than the screenshot below.

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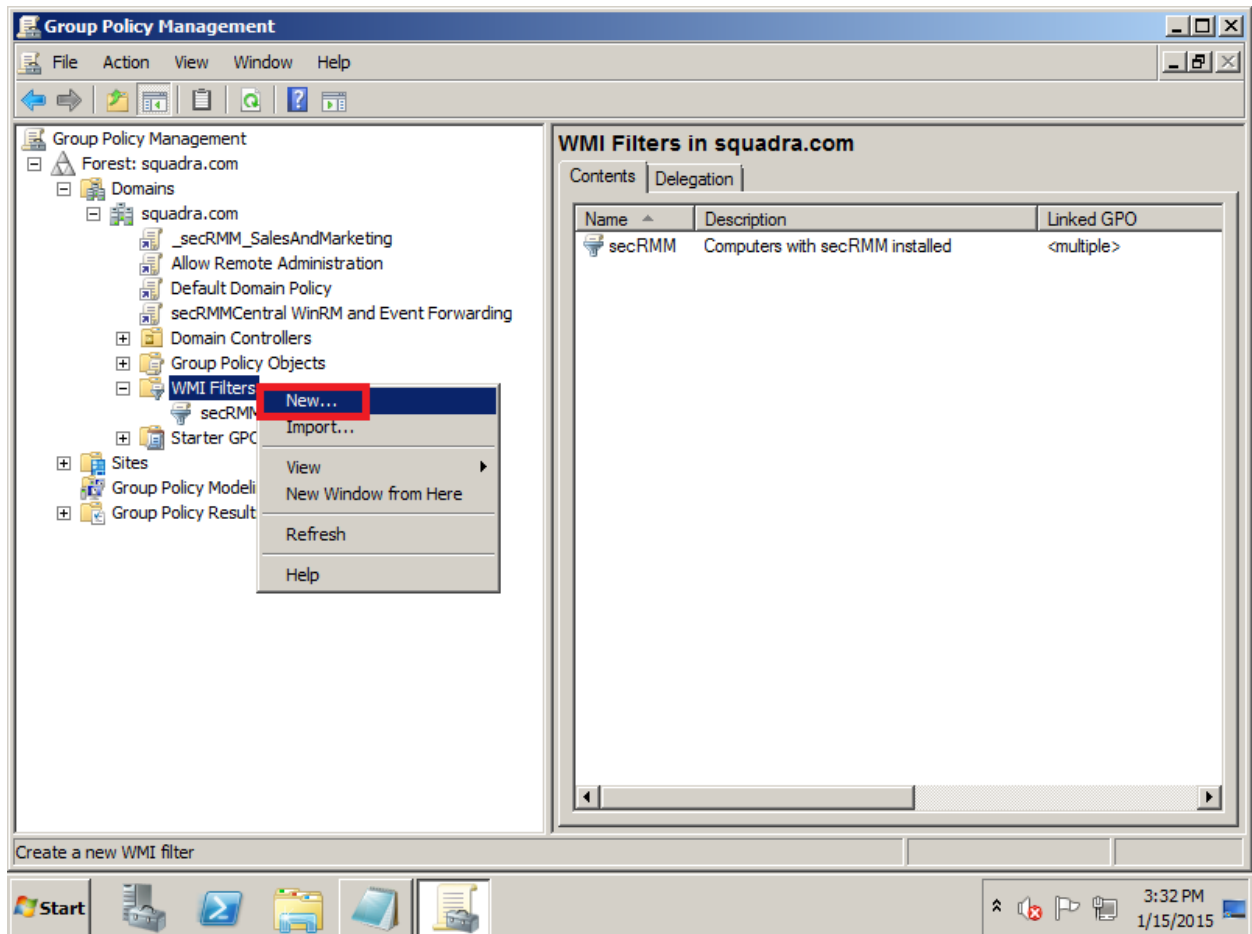
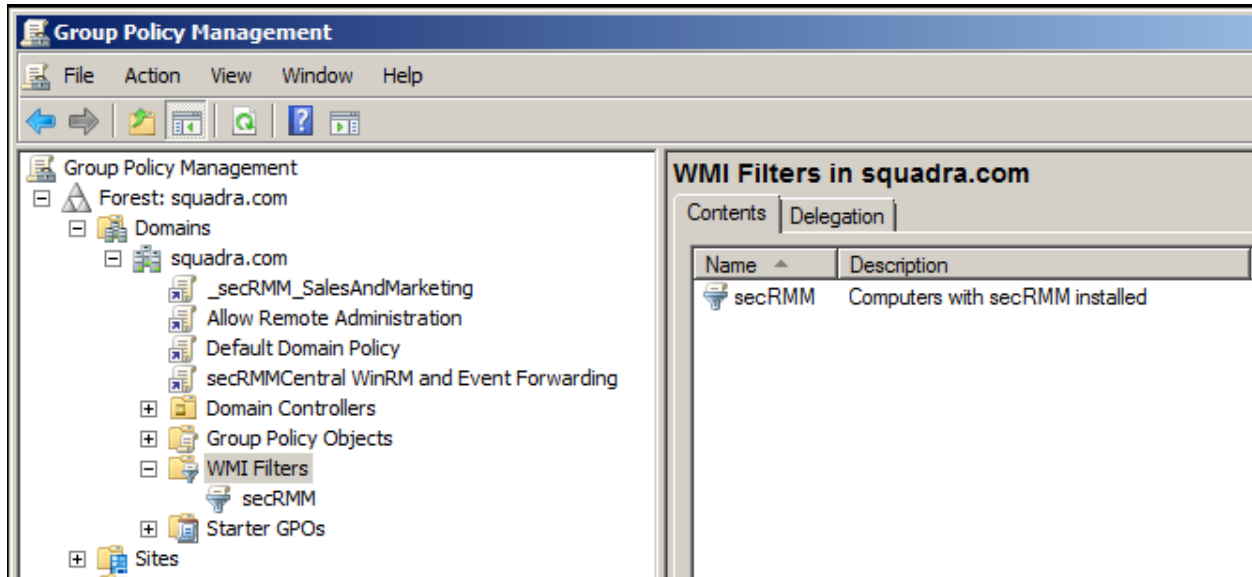
Now, in the “Destination File” field, type the directory and file name of the secRMM license file. The directory will be “C:\Program Files\secRMM\” (unless you specified a different installation directory in which case, you would use that directory named instead).

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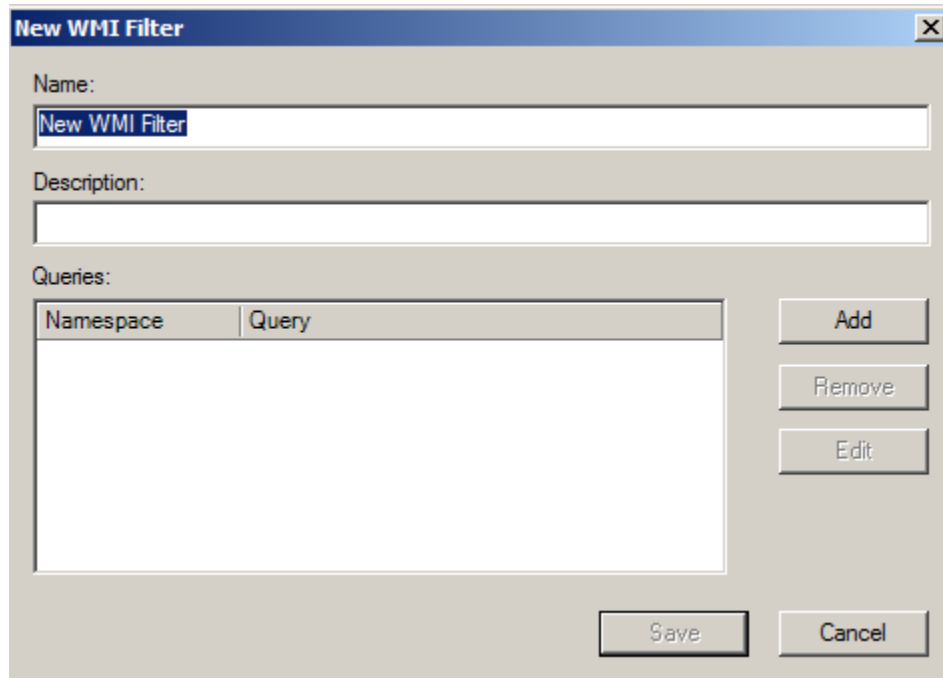


For this GPO, you will associate a WMI Filter to the GPO so that this GPO will only run on computers that have secRMM installed. Right mouse click on “WMI Filters” and select “New”

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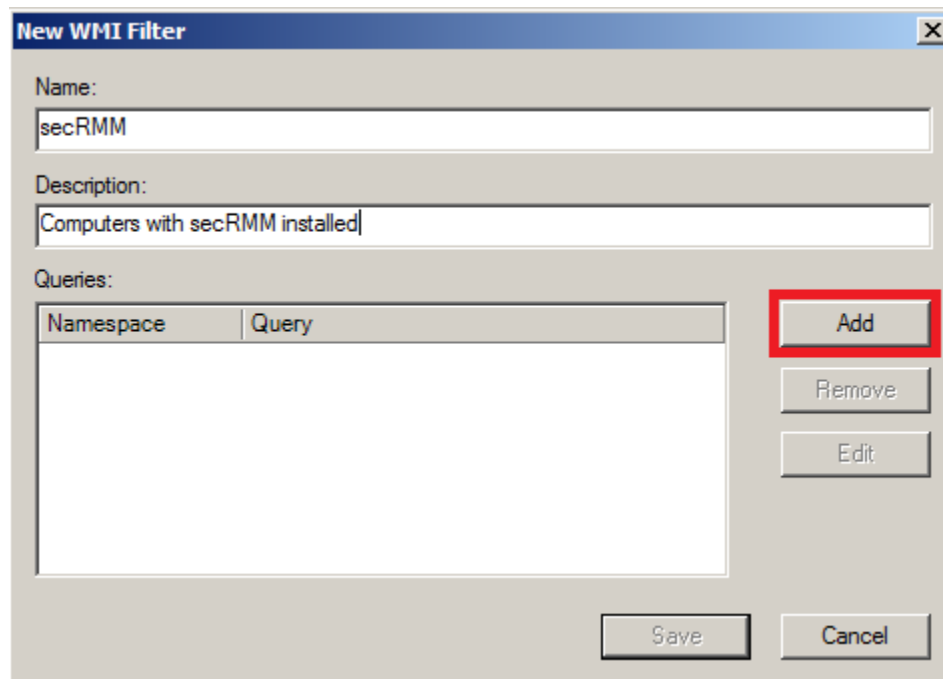


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The 'New WMI Filter' dialog box is shown. The 'Name' field contains 'New WMI Filter'. The 'Description' field is empty. The 'Queries' table is empty. The 'Add', 'Remove', and 'Edit' buttons are visible on the right. The 'Save' and 'Cancel' buttons are at the bottom.

Namespace	Query
-----------	-------



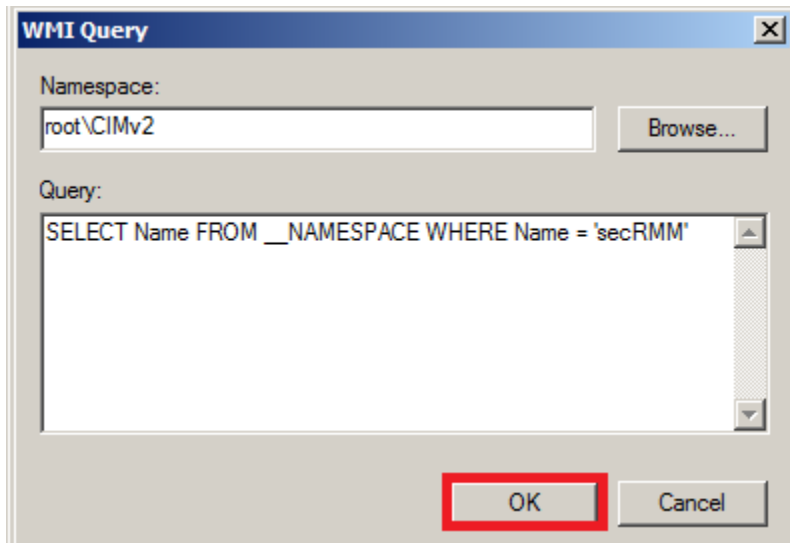
The 'New WMI Filter' dialog box is shown. The 'Name' field contains 'secRMM'. The 'Description' field contains 'Computers with secRMM installed'. The 'Add' button is highlighted with a red box. The 'Remove' and 'Edit' buttons are visible on the right. The 'Save' and 'Cancel' buttons are at the bottom.

Namespace	Query
-----------	-------

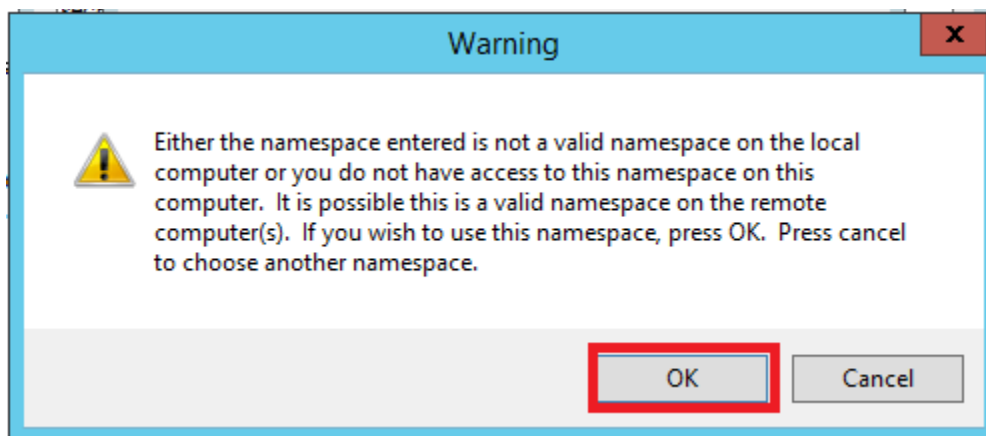
In the Query field, type (or cut and paste):

```
SELECT Name FROM __NAMESPACE WHERE Name = 'secRMM'
```

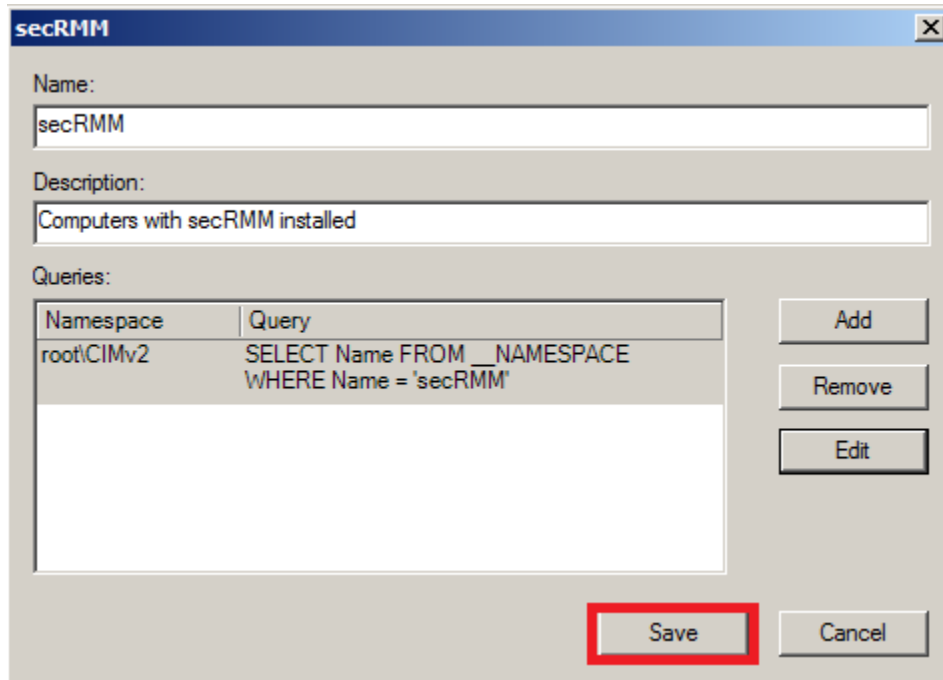
secRMM Active Directory Installation Guide



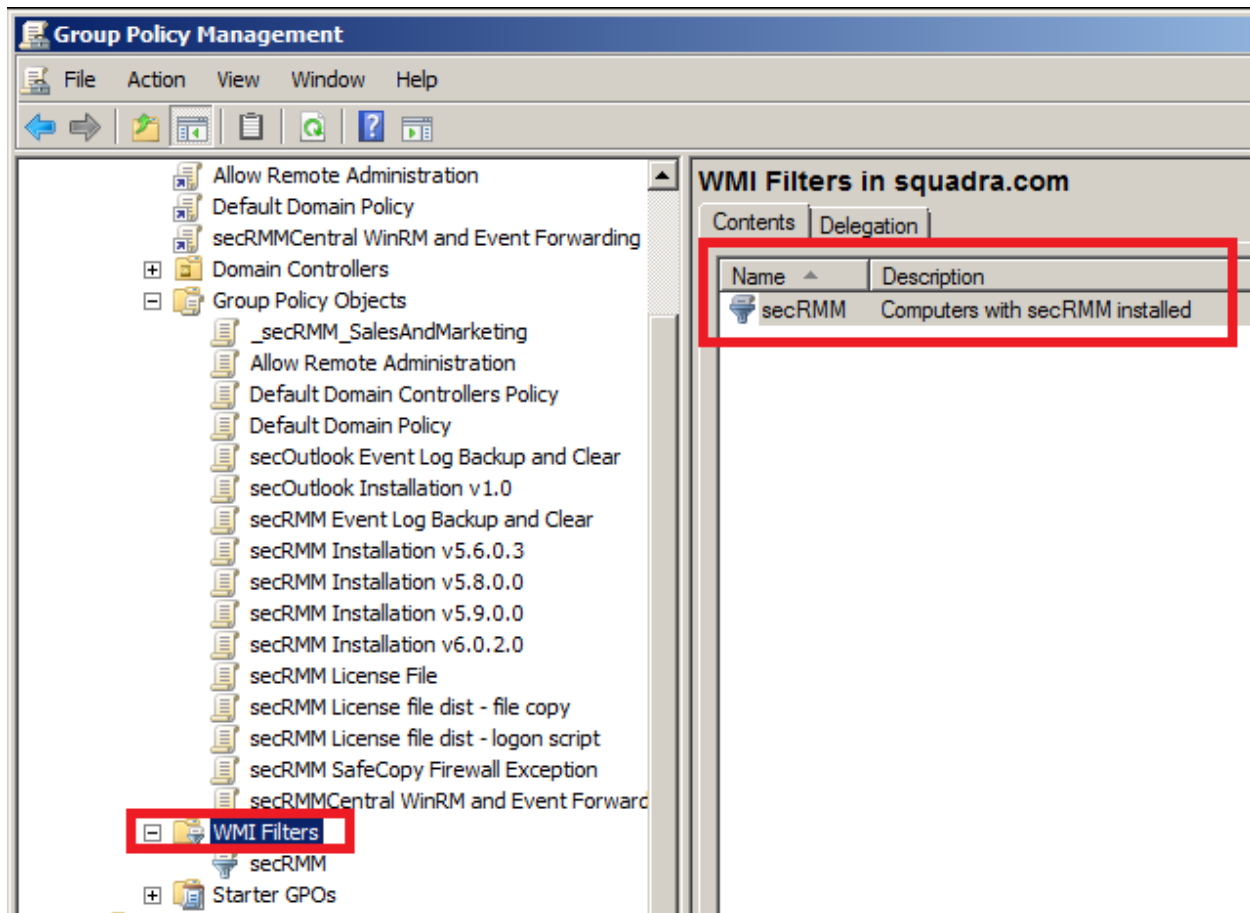
Note: There appears to be a bug in **Windows 2012 R2** that will show the following Warning. You can safely ignore this warning.



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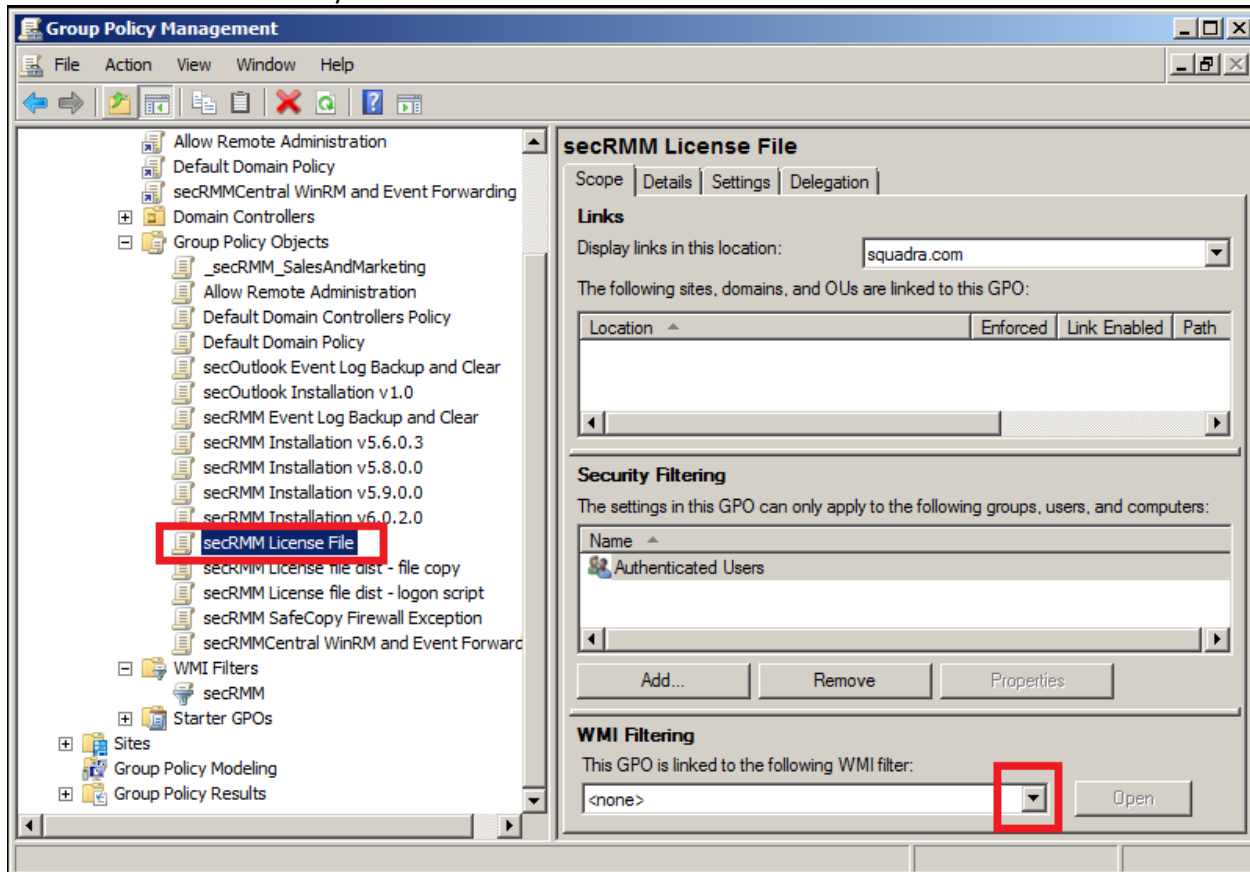


Now the GPO WMI Filter is created.



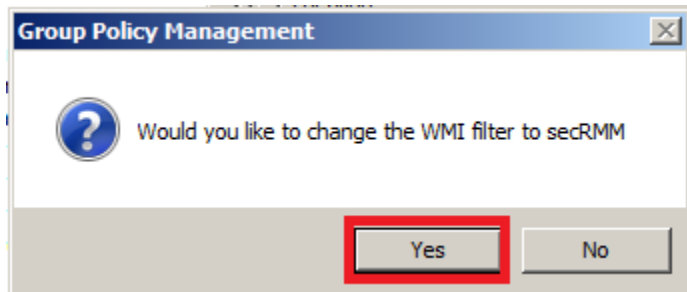
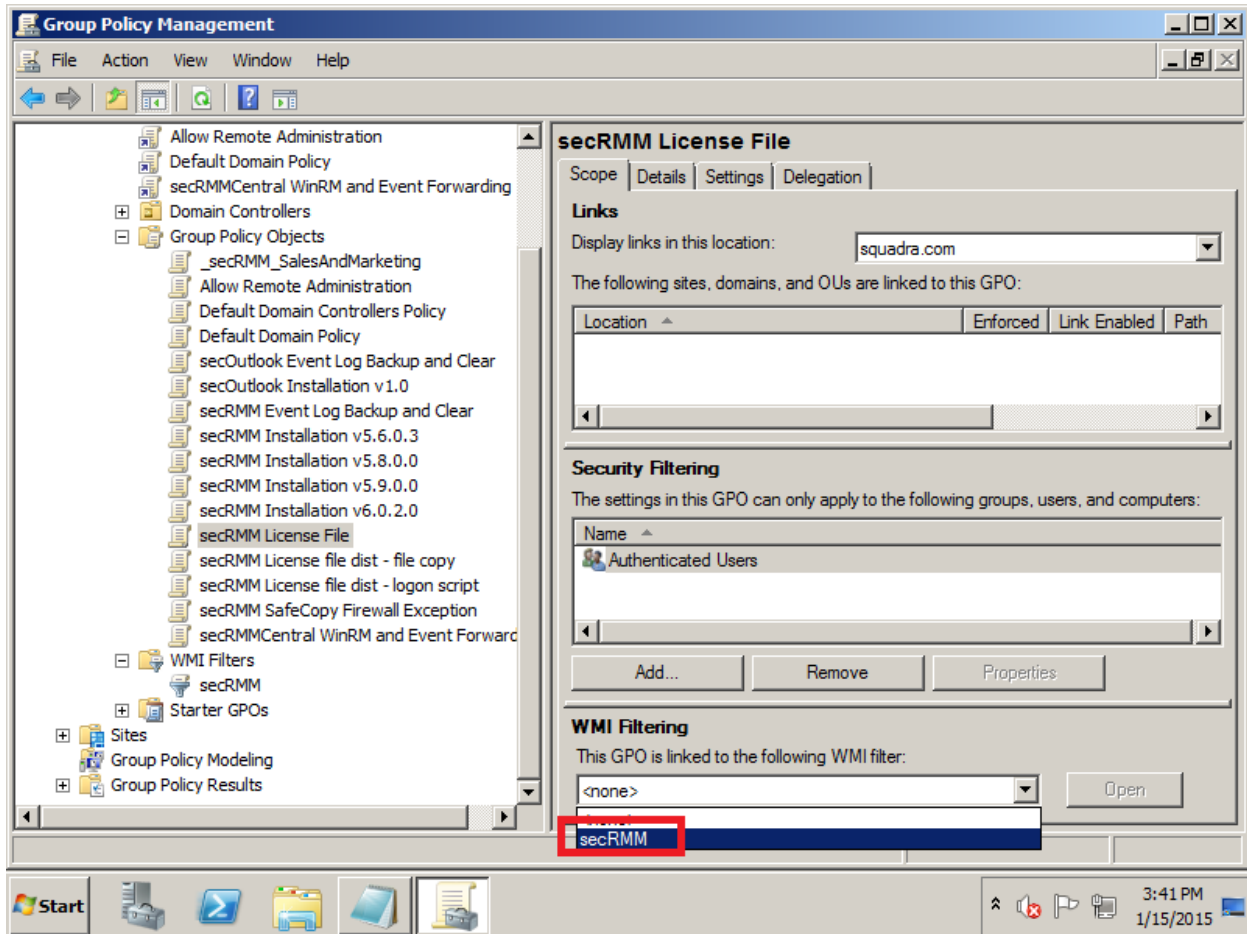
secRMM Active Directory Installation Guide

Now click back on the GPO you created.

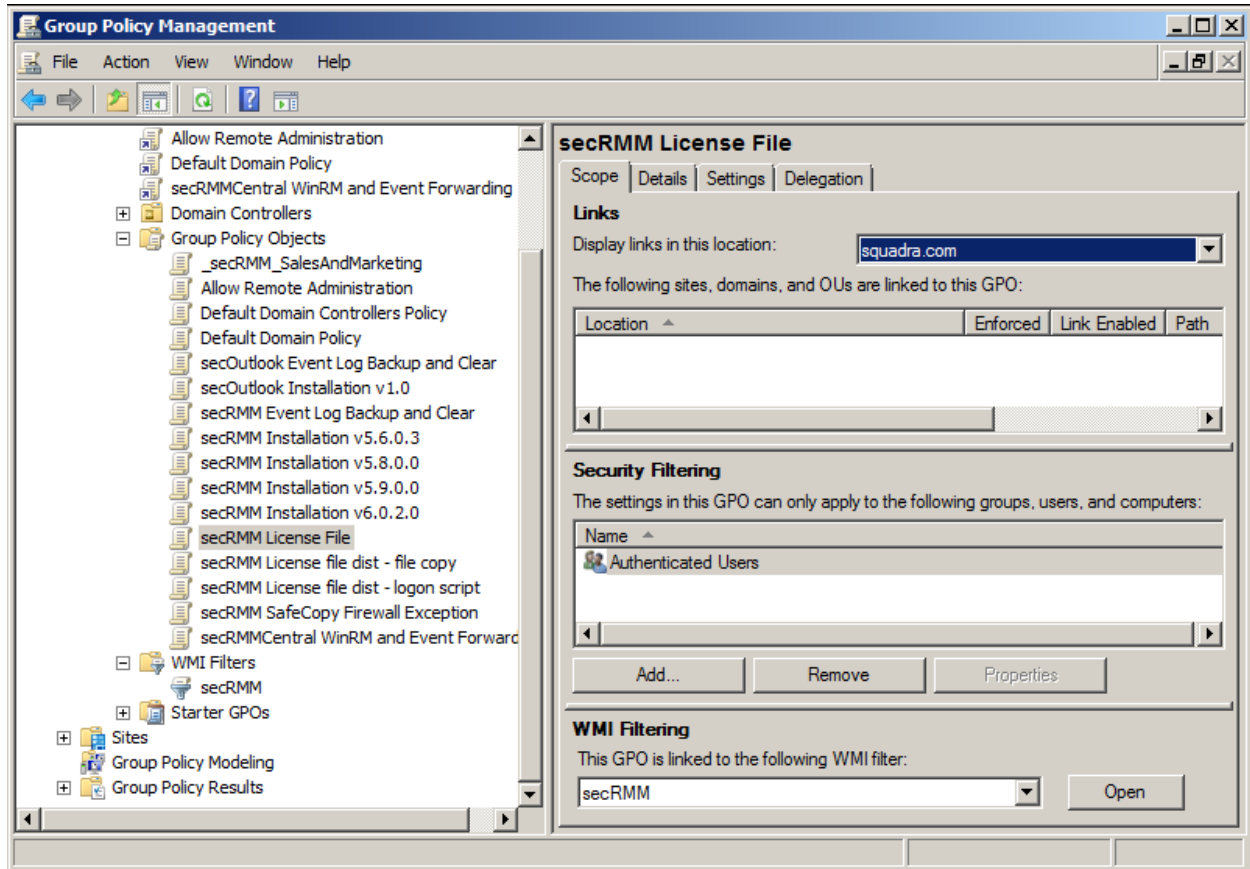


Select the secRMM WMI Filter you just created.

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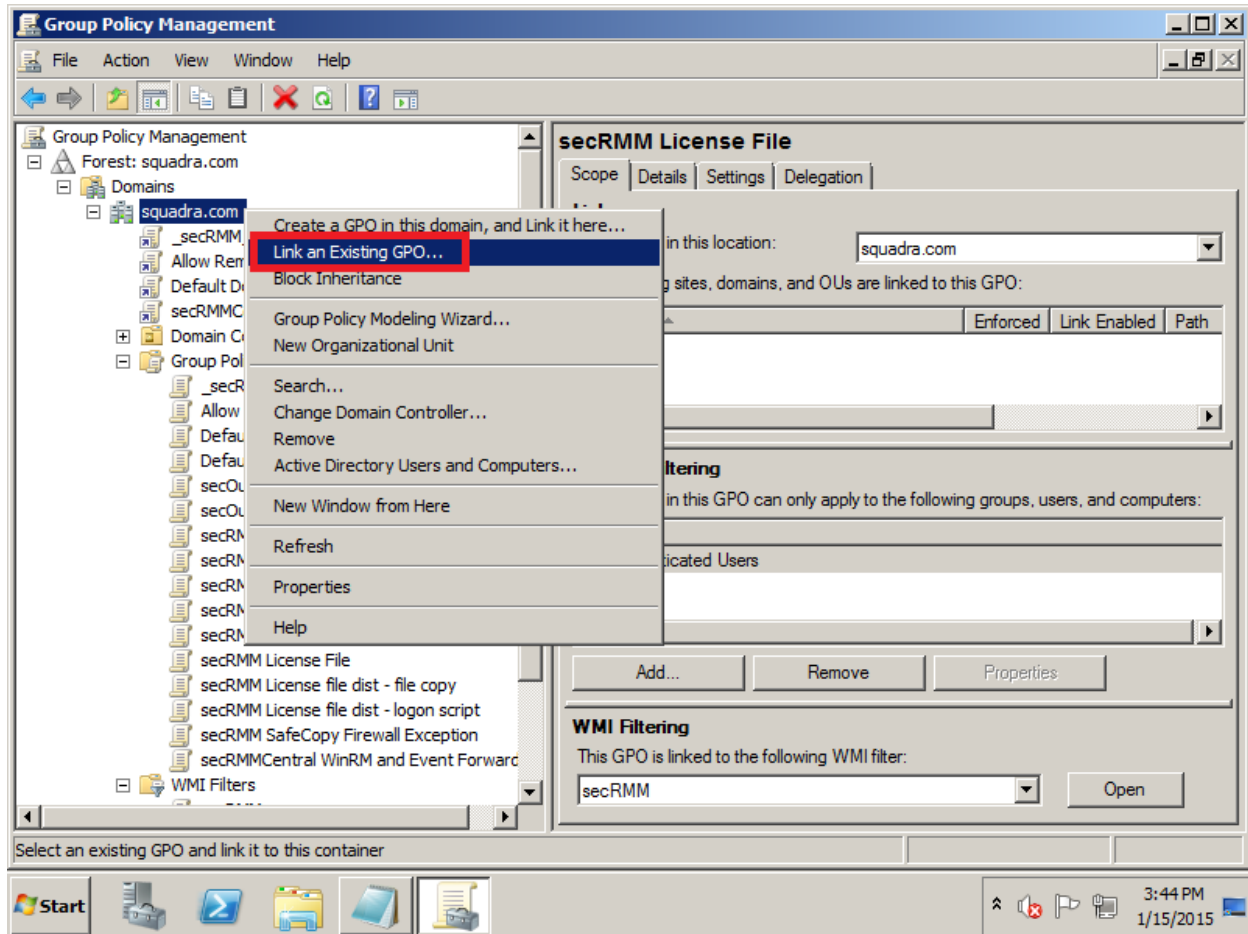
secRMM Active Directory Installation Guide

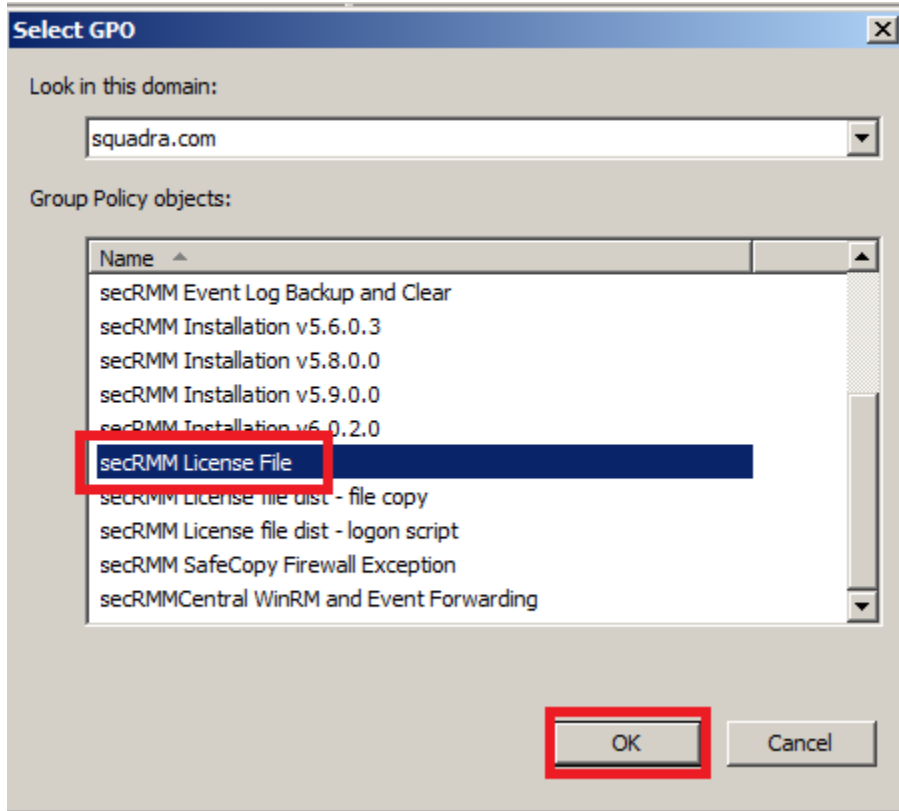


Linking the license file GPO

The final step is to “link” the GPO you just created to computers in your domain. In the screenshot below, we will link the GPO so that all the computers in the domain (with secRMM installed; this is because of the WMI Filter) get the secRMM license file copied to it.

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Troubleshooting

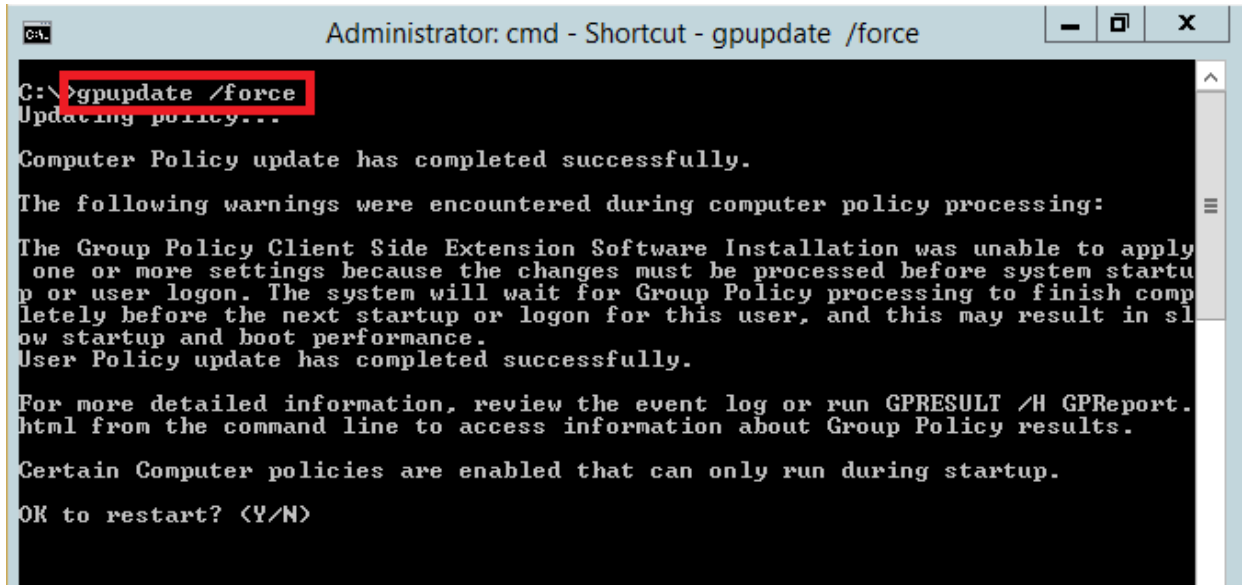
This section helps you troubleshoot your Active Directory environment when the software does not get deployed.

gpupdate and gpresult

Microsoft gives you command line programs when working with Active Directory GPO. These programs are gpupdate and gpresult.

To use gpupdate, go to a computer in the domain that is targeted to have the GPO applied to it. Open a CMD (DOS) window in Administrator mode (UAC). To force the GPOs to run, you type gpupdate /force. You will see output as shown below.

secRMM Active Directory Installation Guide

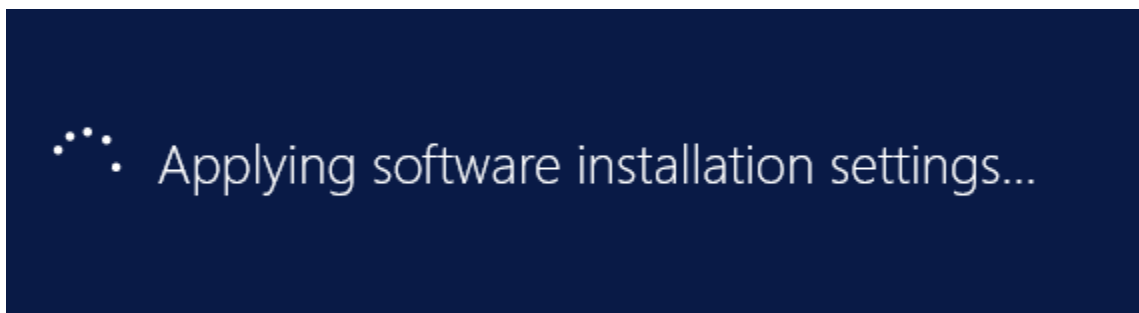


```
Administrator: cmd - Shortcut - gpupdate /force
C:\>gpupdate /force
Updating policy...
Computer Policy update has completed successfully.
The following warnings were encountered during computer policy processing:
The Group Policy Client Side Extension Software Installation was unable to apply
one or more settings because the changes must be processed before system startu
p or user logon. The system will wait for Group Policy processing to finish comp
letely before the next startup or logon for this user, and this may result in sl
ow startup and boot performance.
User Policy update has completed successfully.
For more detailed information, review the event log or run GPRESULT /H GPRreport.
html from the command line to access information about Group Policy results.
Certain Computer policies are enabled that can only run during startup.
OK to restart? (Y/N)
```

You can respond that it is OK to restart the computer by typing the letter Y. When you type the Y, you will see Windows being the reboot.



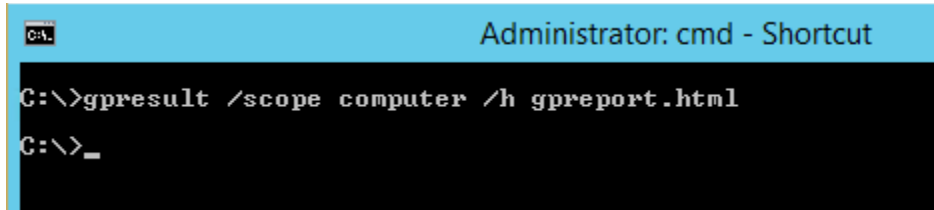
If you watch the screen while the computer is rebooting, you will see new software being installed as shown below.



Once the computer restarts, the GPO rules for the computer will be applied. You can check that the GPO was applied to the computer by using the gpresult program.

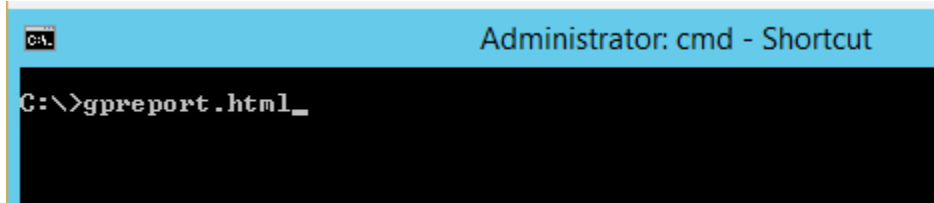
secRMM Active Directory Installation Guide

To use gpresult, open a CMD (DOS) window in Administrator mode (UAC). Type `gpresult /scope computer /h gpreport.html`³. The output of the gpresult is stored in the file gpreport.html.



```
C:\>gpresult /scope computer /h gpreport.html
C:\>_
```

Now, just type gpreport.html at the command line and Windows will invoke your default browser to display the gpreport.html file.



```
C:\>gpreport.html_
```

A browser will open. Look for the secRMM installation in the report as shown below.

³ You need to make sure the file gpreport.html does not already exist. If it does, just delete it or use a different name for the output file.

secRMM Active Directory Installation Guide

Computer Details

General

Computer name

Domain

Site

Organizational Unit

Security Group Membership

CONTOSO\DC

CONTOSO.com

Default-First-Site-Name

CONTOSO.com/Domain Controllers

[show](#)

Component Status

Component Name

Status

Time Taken

Last Process Time

Group Policy Infrastructure

Success

203 Millisecond(s)

1/20/2015 10:51:30 AM

Registry

Success

110 Millisecond(s)

1/20/2015 10:34:05 AM

secRMM Group Policy

Success (no data)

250 Millisecond(s)

1/20/2015 10:46:29 AM

Security

Success

1 Second(s) 281 Millisecond(s)

1/20/2015 10:34:06 AM

Software Installation

Success

13 Second(s) 141 Millisecond(s)

1/20/2015 10:41:29 AM

Settings

Policies

Software Settings

Installed Applications

secRMM x64

Winning GPO

secRMM Installation v6.0.3.0

Product Information

Name

Version

Language

Platform

Support URL

secRMM x64

6.0

English (United States)

x64

Deployment Information

General

Setting

Deployment type

Deployment source

Uninstall this application when it falls out of the scope of management

Assigned

\\DC\v6.0.3.0\secRMMInstallx64.msi

Enabled

If you do not see the secRMM installation in the report, then it is likely that when you associated the GPO to the computers in your domain, this computer was not in the group you targeted. Please contact Squadra Technologies support and we can help you troubleshoot further.

Windows 7

If you find that the secRMM GPO install is failing on Windows 7, look for event id 1055 in the System event log. If there is an event id 1055 in the System event log, please follow the Microsoft KB article <https://support.microsoft.com/en-us/kb/2421599> to resolve the issue.

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.

secRMM Active Directory Installation Guide

2. The Windows versions you have installed: XP, 2003 Server, 2008 Server R2, Vista, Windows 7, etc.
3. The version of Active Directory server 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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