



SCOM 2016 Maintenance Mode Scheduler

User Guide

SCOM 2016 Maintenance Mode Scheduler is a tool for scheduling maintenance mode for computers, groups, and objects of classes in SCOM 2016. This guide will go through how to schedule maintenance mode for each of the different types and present a scenario where this would be useful.

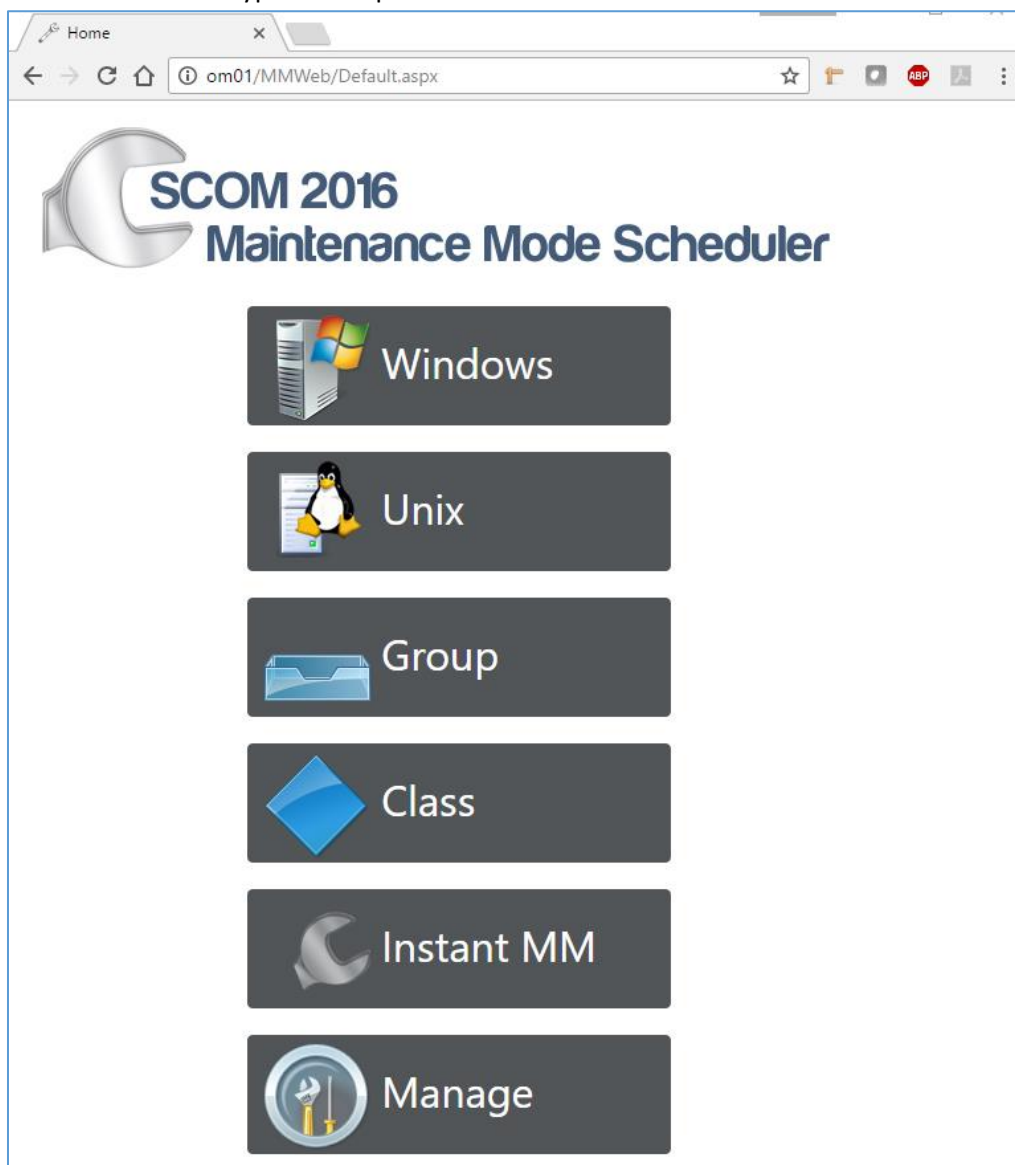
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Computers Maintenance Mode


In this scenario a SQL Admin will be performing maintenance on a few SQL servers at 2:00am on Sunday. During maintenance, services might be stopped or the servers may be rebooted. The admin opens the Maintenance Mode Scheduler and schedules a maintenance window for this time frame so that alerts for the SQL servers don't get sent to the admin or anyone else.

- 1.) Open the **Maintenance Mode Scheduler Website** in your web browser. <http://yourMSserver/MMWeb>
- 2.) Pick **Windows** on the main page.
- 3.) Select one or more **Computers to Schedule for Maintenance Mode**.
- 4.) Under **Start Time**; Pick the **time** and **date** for Maintenance Mode on the computer to Start.
- 5.) Under **End Time**; Pick the **time** and **date** for Maintenance Mode on the computer to finish.
- 6.) Under **Frequency** choose how often Maintenance Mode should run.
 - a. **Once** – Run just once.
 - b. **Daily** – Run **every day** at the Start Time selected.
 - c. **Weekly** – Run **every week** on the day/time selected for Start Time.
 - d. **Monthly** – Run **every month** on specific days of the Month.
- 7.) Under **Category** choose the category (Planned or Unplanned) to specify the maintenance mode.
 - a. Under **Comment**: Type in an Optional Comment.




Windows Computers x

← → ↻ ⬆ ⓘ om01/MMWeb/Windows.aspx



SCOM 2016 Maintenance Mode Scheduler

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Windows Computers


Computers:

DB01.SCOM2K16.com ✕ DB02.SCOM2K16.com ✕

Start Time:

03/26/2017 02:00 AM 

End Time:

03/26/2017 03:00 AM 

Recurrence:

Once ▼

Category:

Other (Planned) ▼

Comment:

SQL Maintenance

Cancel

Submit

[Advanced..](#)

DB01.SCOM2K16.com (+ 1 Additional) - 60 minutes
Maintenance Mode Scheduled Successfully

8.) **Verify the job has been created** on the SCOM server by going to the **Manage Page** or in the **SCOM Console**.

Manage

om01/MMWeb/Manage.aspx

SCOM 2016 Maintenance Mode Scheduler

Windows Unix/Linux Groups Class Instant MM **Manage**

Manage

Schedules:

DB01.SCOM2K16.com (+ 1 Additional) - 60 minutes

Enabled: ☒ Yes ☐ No

Next Runtime: 3/26/2017 2:00:00 AM

Last Runtime: Never

Schedule: Once

Duration: 60

Objects: (DB01.SCOM2K16.com), (DB02.SCOM2K16.com)

Comments: SQL Maintenance

Status: Not Running

Edit Delete Stop

Console

Monitoring		Maintenance Schedules (1)						
Monitoring		Name	Status	Last Run...	Next Run	Enabled	User	Recurring
Active Alerts		DB01.SCOM2K16.com (+ 1 Additional) - 60 minutes	Not Running	-	3/26/2017 2:00 AM	Yes	SCOM...	No
Discovered Inventory								
Distributed Applications								
Maintenance Schedules								

Using Integrated Console Dashboard

Another great feature is the ability to schedule computers for maintenance mode in the console using the SCOM 2016 Maintenance Mode Scheduler Dashboards. Multi select the computers you want to schedule using the integrated Dashboard. (Instructions on how to install the Dashboard MPs are in the Installation guide)

The screenshot displays the 'Schedule Windows Maintenance Mode' window in the SCOM 2016 Operations Manager console. The interface includes a left-hand navigation pane with a tree view showing the hierarchy: Monitoring > SCOM 2016 Maintenance Mode Scheduler > Schedule Windows Maintenance Mode. The main area is divided into two sections. The top section, titled 'Windows Computers (12)', contains a table listing 12 computers with their health status, icons, maintenance mode, display names, and NetBIOS names. The bottom section, titled 'Schedule Maintenance Mode', provides a form to configure the maintenance mode for the selected computers.

Health	Icon	Maintenance Mode	Display Name	NetBIOS Computer Name
✓	🖨️		AP01.SCOM2K16.com	AP01
⚠️	🖨️		DB01.SCOM2K16.com	DB01
⚠️	🖨️		DB02.SCOM2K16.com	DB02
✖️	🖨️		DC01.SCOM2K16.com	DC01
✓	🖨️		FS01.SCOM2K16.com	FS01
✓	🖨️		HV01.SCOM2K16.com	HV01
✖️	🖨️		NC01.SCOM2K16.com	NC01
✓	🖨️		OM01.SCOM2K16.com	OM01
⚠️	🖨️		RD01.SCOM2K16.com	RD01
⏸️	🖨️		TS01.SCOM2K16.com	
✓	🖨️		TS2012R2.SCOM2K16.com	TS2012R2
✓	🖨️		TS2016.SCOM2K16.com	TS2016

Schedule Maintenance Mode

Windows Computers

Computers: DB01.SCOM2K16.com ✕ DB02.SCOM2K16.com ✕

Start Time: 02/26/2017 09:03 PM 📅

End Time: 02/26/2017 09:33 PM 📅

Recurrence: Once ▼

Category: Other (Planned) ▼

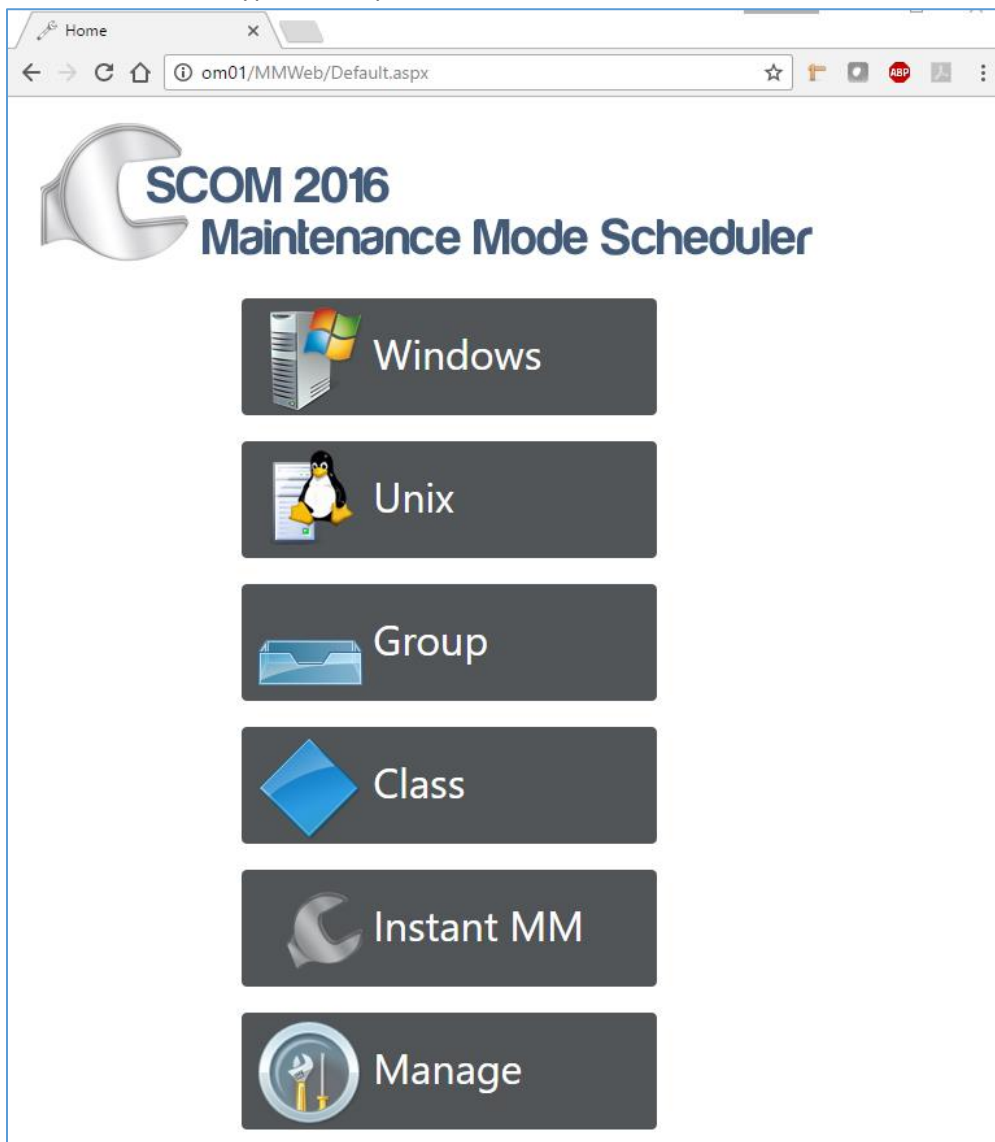
Comment:

Cancel Submit

Group Maintenance Mode


In this example, the Network Admin Team performs maintenance on a network segment of Exchange Servers on the Last Sunday of each month at 2:00am. To do this, open the Maintenance Mode Scheduler and schedule a maintenance window for the Exchange Servers Group. With the maintenance window scheduled, alerts won't be sent to the Exchange Admin or anyone else.

- 1.) Open the **Maintenance Mode Scheduler Website** in your web browser. <http://yourMSserver/MMWeb>
- 2.) Pick **Group** on the main page.
- 3.) Pick the **Group to Schedule for Maintenance Mode**.
 - 1.) Under **Start Time**; Pick the **time** and **date** for Maintenance Mode on the group to Start.
 - 2.) Under **End Time**; Pick the **time** and **date** for Maintenance Mode on the group to finish.
 - 3.) Under **Frequency** choose how often Maintenance Mode should run.
 - a. **Once** – Run just once.
 - b. **Daily** – Run **every day** at the Start Time selected.
 - c. **Weekly** – Run **every week** on the day/time selected for Start Time.
 - d. **Monthly** – Run **every month** on specific days of the Month.
 - 4.) Under **Category** choose the category (Planned or Unplanned) to specify the maintenance mode.
 - 5.) Under **Comment**: Type in an Optional Comment.




Groups

om01/MMWeb/Groups.aspx



SCOM 2016 Maintenance Mode Scheduler

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Groups

Groups:

Microsoft Exchange 2016 Computers Group x


Start Time:

02/26/2017 02:00 AM



End Time:

02/26/2017 03:00 AM



Recurrence:

Monthly

▼

☐ Day

☒ On:

Last ▼

Friday ▼

Of Every:

1 ▼

Month(s)

End Recurrence:

(Optional) Select End Date

Category:

Other (Planned) ▼

Comment:

Cancel

Submit

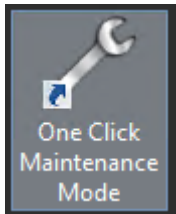
[Advanced..](#)

Microsoft Exchange 2016 Computers Group - 60 minutes - Monthly
Maintenance Mode Scheduled Successfully

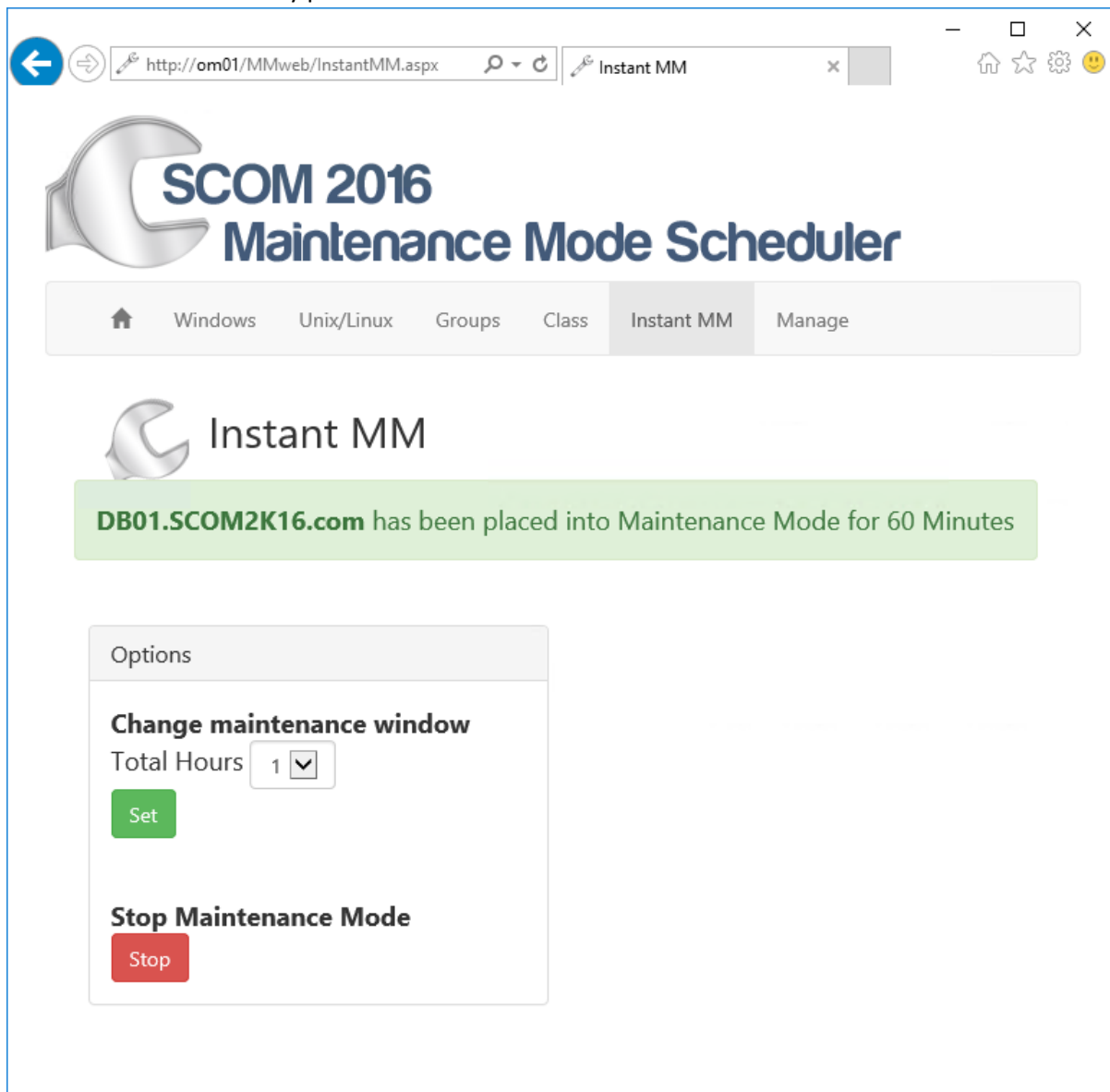
Instant Maintenance Mode

The application makes it easy for IT staff to put a server into maintenance mode without having to go into the SCOM console. On any server, a user can visit the SCOM 2012 Maintenance Mode Scheduler Instant MM website at <http://yourMSserver/MMWeb/InstantMM.aspx>

Creating a shortcut on the desktop of the servers will make it even easier. This can be accomplished manually or by using SCCM, AD Group Policy or some other software deployment solution.



- 1.) Open the **Instant MM** Website from the server to put it into maintenance mode using Internet **Explorer**.
<http://yourserver/MMWeb/InstantMM.aspx>
- 2.) The server is automatically put into maintenance for 60 minutes.



Instant Maintenance Mode with URL Parameters

New in SCOM Maintenance Mode Scheduler 2016 is the ability to add parameters to the URL.

- **ComputerName – Specify the Computer Name**

<http://yourMMServer/MMweb/Instant.aspx?ComputerName=yourComputer.yourdomain.com>

- **ID: - Specify the ID of any object in SCOM**

<http://om01/MMweb/InstantMM.aspx?ID=f4ea533c-16e4-76fa-8f5a-98fc4b1cb492>

- **Min – Number of Minutes for Maintenance Mode**

<http://om01/MMweb/InstantMM.aspx?Min=120>

- **Action – Start or Stop Maintenance Mode**

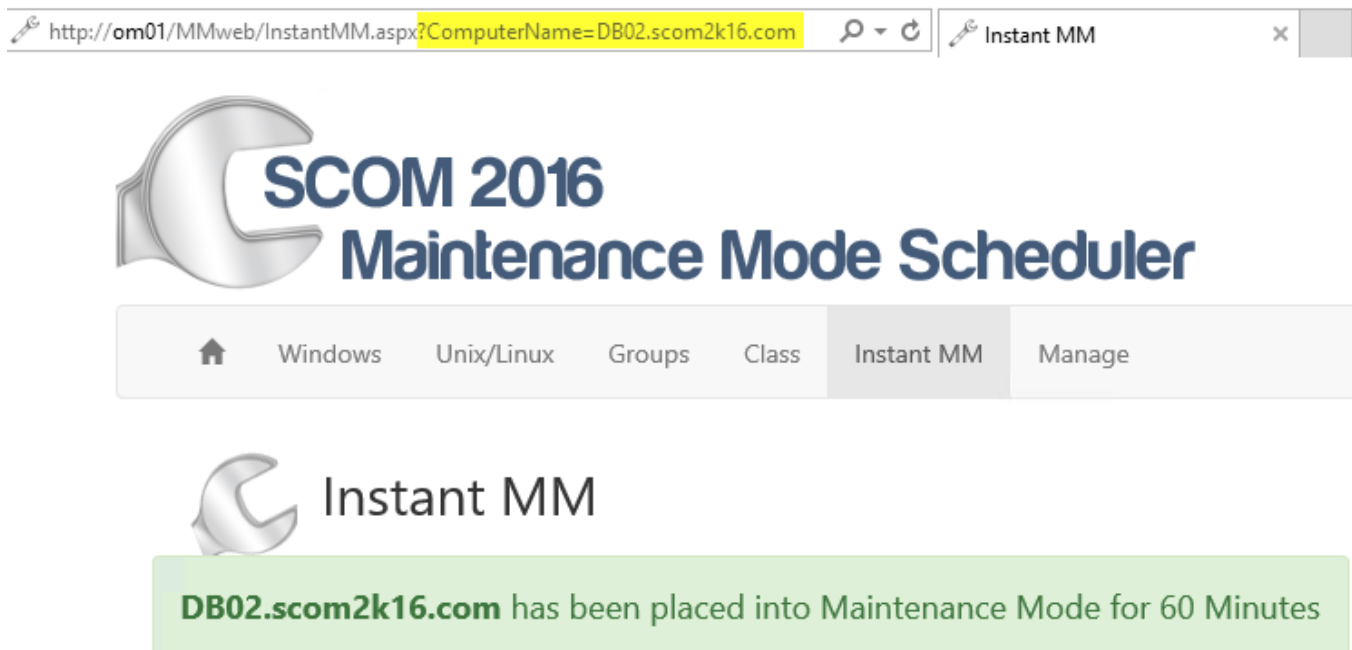
<http://om01/MMweb/InstantMM.aspx?Action=Start>

<http://om01/MMweb/InstantMM.aspx?Action=Stop>

- **Combine multiple URL Parameters**

<http://om01/MMweb/InstantMM.aspx?ComputerName=DB02.scom2k16.com&Min=120&Action=Start>

Example



The screenshot shows a web browser window with the address bar containing the URL: <http://om01/MMweb/InstantMM.aspx?ComputerName=DB02.scom2k16.com>. The page title is "Instant MM". The main content area features the SCOM 2016 Maintenance Mode Scheduler logo and a navigation bar with tabs: Home, Windows, Unix/Linux, Groups, Class, Instant MM (selected), and Manage. Below the navigation bar, the title "Instant MM" is displayed. A green message box at the bottom states: "DB02.scom2k16.com has been placed into Maintenance Mode for 60 Minutes".

Instant Maintenance Mode using PowerShell, VBScript or Code.

Using the new URL Parameters, you can now put servers into Maintenance Mode from any computer using a script or code. Typical use case would be using SCCM when updates or software is installed. SCCM would execute the VB or PowerShell script before the install process to start maintenance mode. After the updates or software is installed SCCM would call the script to stop maintenance mode.

VB Script Example Download: <http://www.scom2k7.com/downloads/computerMM.renameTOvbs>

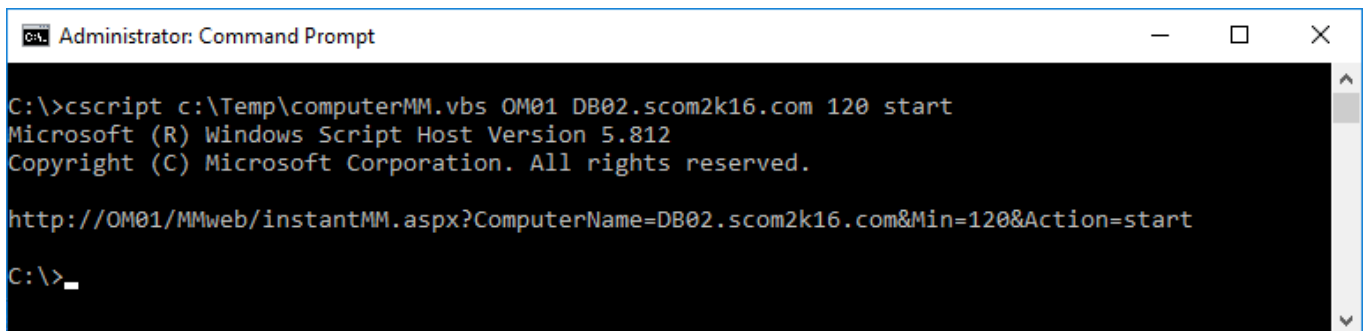
```
Dim o, mmServer, computerName, min, action, fullURL

if WScript.Arguments.Count < 0 then
    WScript.Echo "Missing parameters"
end If

mmServer = WScript.Arguments(0)
computerName = WScript.Arguments(1)
min = WScript.Arguments(2)
action = WScript.Arguments(3)

Set o = CreateObject("MSXML2.XMLHTTP")
fullURL = "http://" & mmServer & "/MMweb/instantMM.aspx?ComputerName=" &
computerName & "&Min=" & min & "&Action=" & action
WScript.Echo fullURL

o.open "GET", fullURL, False
o.send
```

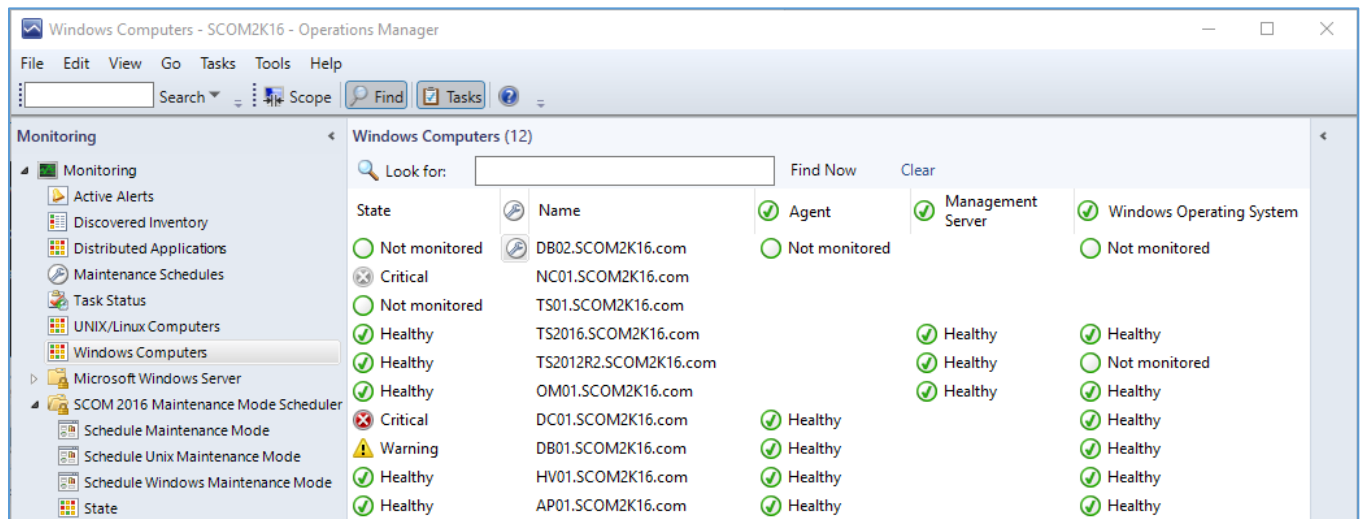


```
Administrator: Command Prompt

C:\>cscript c:\Temp\computerMM.vbs OM01 DB02.scom2k16.com 120 start
Microsoft (R) Windows Script Host Version 5.812
Copyright (C) Microsoft Corporation. All rights reserved.

http://OM01/MMweb/instantMM.aspx?ComputerName=DB02.scom2k16.com&Min=120&Action=start

C:\>_
```

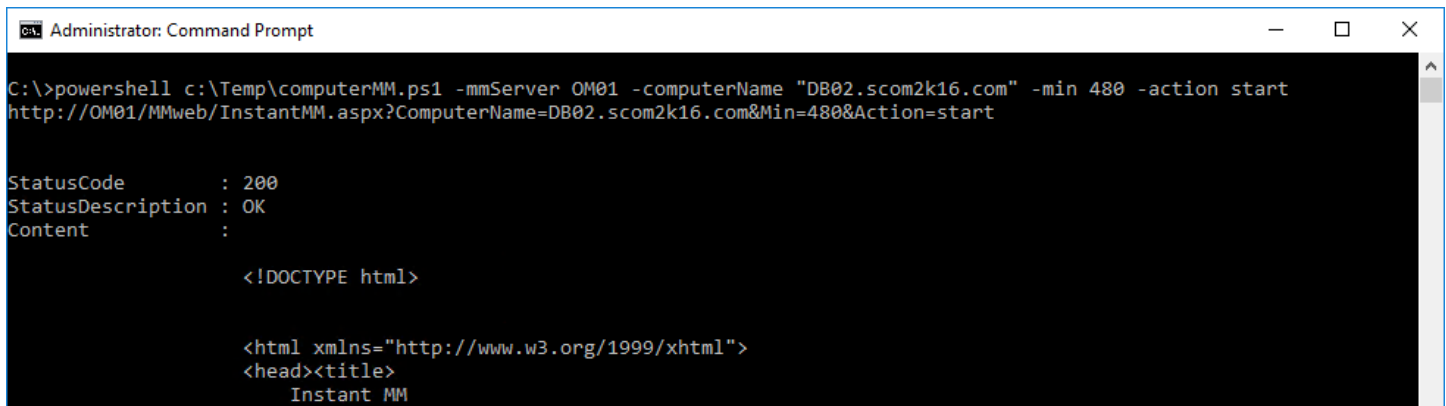


State	Name	Agent	Management Server	Windows Operating System
Not monitored	DB02.SCOM2K16.com	Not monitored		Not monitored
Critical	NC01.SCOM2K16.com			
Not monitored	TS01.SCOM2K16.com			
Healthy	TS2016.SCOM2K16.com		Healthy	Healthy
Healthy	TS2012R2.SCOM2K16.com		Healthy	Not monitored
Healthy	OM01.SCOM2K16.com		Healthy	Healthy
Critical	DC01.SCOM2K16.com	Healthy		Healthy
Warning	DB01.SCOM2K16.com	Healthy		Healthy
Healthy	HV01.SCOM2K16.com	Healthy		Healthy
Healthy	AP01.SCOM2K16.com	Healthy		Healthy

```
param (
    [Parameter(Mandatory=$true)] [string] $mmServer,
    [Parameter(Mandatory=$true)] [string] $computerName,
    [Parameter(Mandatory=$true)] [string] $min,
    [Parameter(Mandatory=$true)] [string] $action
)

$FullURL = "http://" + $mmServer + "/MMweb/InstantMM.aspx?ComputerName=" + $computerName +
"&Min=" + $min + "&Action=" + $action
$FullURL

Invoke-WebRequest -uri $FullURL -UseDefaultCredential
```



```
Administrator: Command Prompt

C:\>powershell c:\Temp\computerMM.ps1 -mmServer OM01 -computerName "DB02.scom2k16.com" -min 480 -action start
http://OM01/MMweb/InstantMM.aspx?ComputerName=DB02.scom2k16.com&Min=480&Action=start

StatusCode      : 200
StatusDescription : OK
Content         :

                <!DOCTYPE html>

                <html xmlns="http://www.w3.org/1999/xhtml">
                <head><title>
                    Instant MM
```


Class Maintenance Mode

In this setting a SharePoint Admin is performing maintenance on a SharePoint front end server on Saturday at 4:00AM. During the outage the IIS Service will be restarted and the admin does not want to alert the NOC or the on-call engineer.

- 1.) Open the **Maintenance Mode Scheduler Website** in your web browser. <http://yourMSserver/MMWeb>
- 2.) Pick **Class** on the main page.
- 3.) Pick the **Class for the type of object**. Pick **IIS 10 Web Site**
- 4.) Under Object: Pick **all the SharePoint Websites to Schedule for Maintenance Mode**.
- 5.) Under **Start Time**; Pick the **time** and **date** for Maintenance Mode to Start.
- 6.) Under **End Time**; Pick the **time** and **date** for Maintenance Mode to finish.
- 7.) Under **Frequency** choose how often Maintenance Mode should run.
 - a. **Once** – Run just once.
 - b. **Daily** – Run **every day** at the Start Time selected.
 - c. **Weekly** – Run **every week** on the day/time selected for Start Time.
 - d. **Monthly** – Run **every month** on specific days of the Month.
- 8.) Under **Category** choose the category (Planned or Unplanned) to specify the maintenance mode.
- 9.) Under **Comment**: Type in an Optional Comment.


Class

om01/MMWeb/Class.aspx



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Class

Class:

IIS 10 Web Site

Object:

Default Web Site | RD01.SCOM2K16.com ✕

Default Web Site | AP01.SCOM2K16.com ✕

Default Web Site | TS2016.SCOM2K16.com ✕

Start Time:

05/02/2017 04:00 AM

End Time:

05/02/2017 05:00 AM

Recurrence:

Once

Category:

Other (Planned)

Comment:

Cancel

Submit

[Advanced..](#)

Default Web Site | RD01.SCOM2K16.com (+ 2 Additional) - 60 minutes

Maintenance Mode Scheduled Successfully

Manage Maintenance Mode Schedules

In this example an Admin has created a maintenance mode schedule that they no longer want to run. The job they want to delete is re-occurring Sunday 3AM Maintenance Mode on all their servers.

- 1.) Open the **Maintenance Mode Scheduler Website** in your web browser. <http://yourMSserver/MMWeb>
- 2.) Pick **Manage** on the main page.
- 3.) Pick the **Schedule**. "DB01.SCOM2K16.COM (+1 Additional) – 60 Minutes"
- 4.) Click the Delete Button

The screenshot shows a web browser window with the address bar displaying "om01/MMWeb/Manage.aspx". The page title is "SCOM 2016 Maintenance Mode Scheduler". A navigation bar contains links: Home, Windows, Unix/Linux, Groups, Class, Instant MM, and Manage (which is selected). Below the navigation bar is a "Manage" section with a wrench icon. The "Schedules:" section contains a list of three schedules: "DB01.SCOM2K16.com (+ 1 Additional) - 60 minutes" (selected), "Default Web Site | RD01.SCOM2K16.com (+ 2 Additional) - 60 minutes", and "Microsoft Exchange 2016 Computers Group - 60 minutes". Below the list are several configuration fields: "Enabled:" with "Yes" selected; "Next Runtime:" with "3/26/2017 2:00:00 AM"; "Last Runtime:" with "Never"; "Schedule:" with "Once"; "Duration:" with "60"; "Objects:" with "(DB01.SCOM2K16.com), (DB02.SCOM2K16.com)"; "Comments:" with "SQL Maintenance"; and "Status:" with "Not Running". At the bottom right are three buttons: "Edit" (green), "Delete" (red), and "Stop" (orange).

Manage

om01/MMWeb/Manage.aspx

SCOM 2016 Maintenance Mode Scheduler

Windows Unix/Linux Groups Class Instant MM **Manage**

Manage

Schedules:

- DB01.SCOM2K16.com (+ 1 Additional) - 60 minutes
- Default Web Site | RD01.SCOM2K16.com (+ 2 Additional) - 60 minutes
- Microsoft Exchange 2016 Computers Group - 60 minutes

Enabled: Yes No

Next Runtime: 3/26/2017 2:00:00 AM

Last Runtime: Never

Schedule: Once

Duration: 60

Objects: (DB01.SCOM2K16.com), (DB02.SCOM2K16.com)

Comments: SQL Maintenance

Status: Not Running

Edit Delete Stop

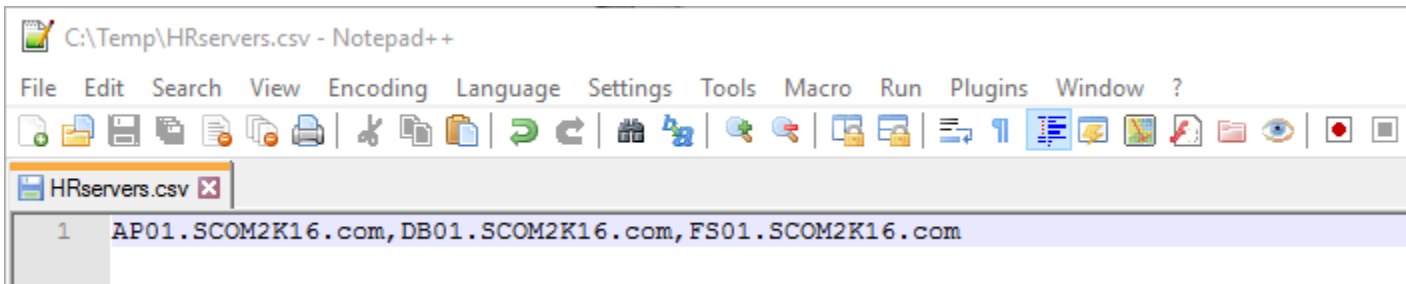
Add Computers using a CSV File

In this scenario the HR Application team has provided a list of servers in a CSV (Comma Separated Values) file named HRservers.csv

They would like the servers listed in the csv file to be put into maintenance mode Every Sunday at 3:00AM for Application Maintenance

Here are the contents of the HRservers.csv file

****NOTE: Make sure there are no spaces between comma and the server names****




- 1.) Open the **Maintenance Mode Scheduler Website** your web browser. <http://yourMSserver/MMWeb>
- 2.) Pick **Windows** on the main page.
- 3.) Click the **Advanced..** Link at the bottom left of the Page to expand out the CSV option.
- 4.) Under **Computers, Optional Import CSV**; Click the **Choose File** button.
- 5.) Browse to the **location of the CSV file**; Click **Open**.
- 6.) Under **Start Time**; Pick the **time** and **date** for Maintenance Mode on the computers to Start.
- 7.) Under **End Time**; Pick the **time** and **date** for Maintenance Mode on the computers to finish.
- 8.) Under **Frequency** choose how often Maintenance Mode should run.
 - a. **Once** – Run just once.
 - b. **Daily** – Run **every day** at the Start Time selected.
 - c. **Weekly** – Run **every week** on the day/time selected for Start Time.
 - d. **Monthly** – Run **every month** on specific days of the Month.
- 9.) Under **Category** choose the category (Planned or Unplanned) to specify the maintenance mode.

Under **Comment**: Type in an Optional Comment.


Windows Computers x

← → ↻ 🏠 ⓘ om01/MMWeb/Windows.aspx



SCOM 2016 Maintenance Mode Scheduler

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Windows Computers

Computers:

AP01.SCOM2K16.com ✕ DB01.SCOM2K16.com ✕
FS01.SCOM2K16.com ✕

Import CSV: [📁 Choose File](#)

Start Time:

02/26/2017 02:00 AM 📅

End Time:

02/26/2017 02:30 AM 📅

Recurrence:

Once ▼

Category:

Other (Planned) ▼

Comment:

HR Application Weekly Maintenance

Job Name:

(Optional) Enter Custom Job Name

Cancel

Submit

Basic

AP01.SCOM2K16.com (+ 2 Additional) - 30 minutes
Maintenance Mode Scheduled Successfully