

SCOM Maintenance Mode Scheduler

User Guide

SCOM Maintenance Mode Scheduler is a tool for scheduling maintenance mode for computers, groups, and objects of classes in SCOM. 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

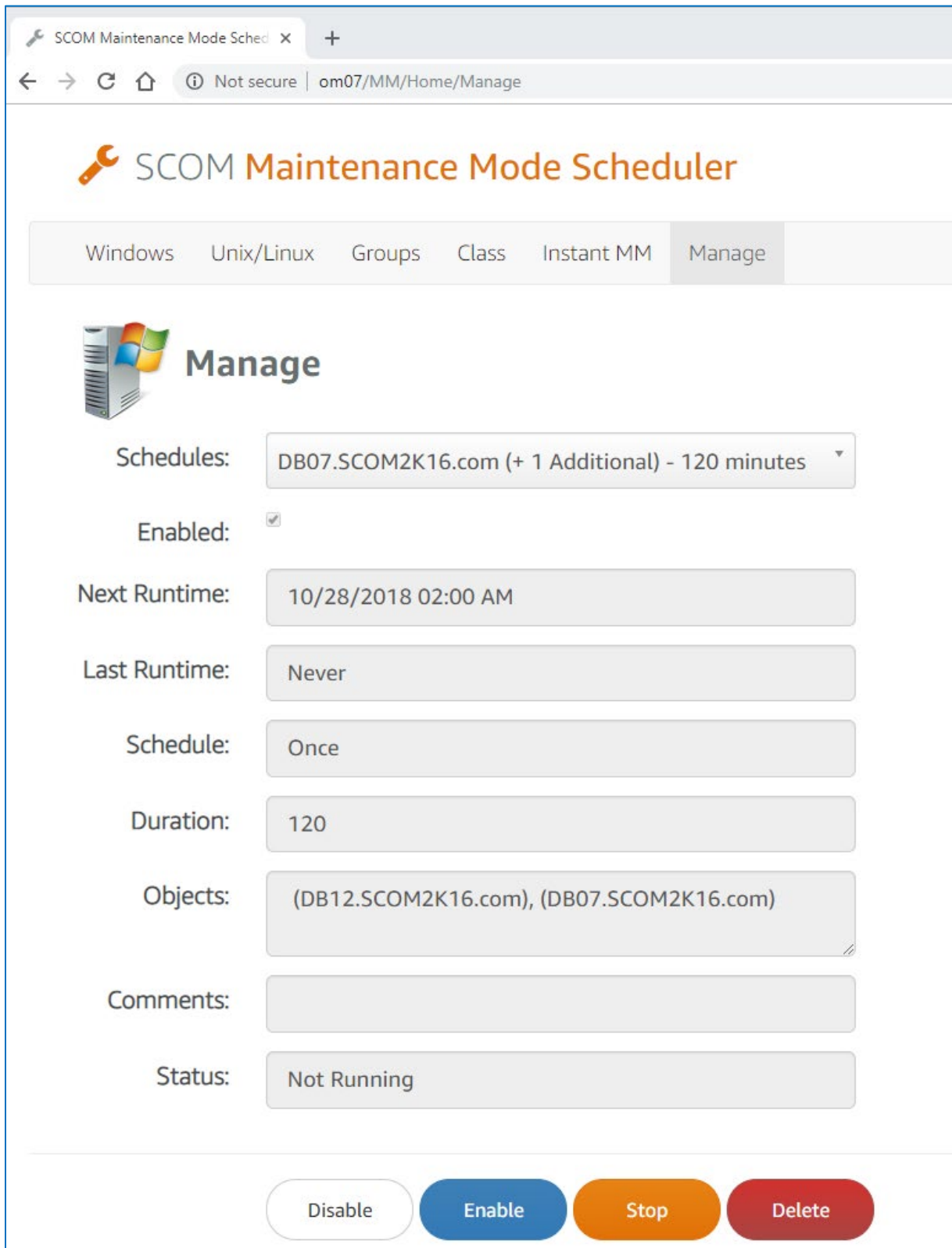
In this scenario a SQL Admin will be performing maintenance on a few SQL servers at 2:00am on Sunday. During maintenance, services might be stopped or the servers may be rebooted. The admin opens the Maintenance Mode Scheduler and schedules a maintenance window for this time frame so that alerts for 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/MM>
- 2.) Select one or more **Computers to Schedule for Maintenance Mode**.
- 3.) Under **Start Time**; Pick the **time** and **date** for Maintenance Mode on the computer to Start.
- 4.) Under **End Time**; Pick the **time** and **date** for Maintenance Mode on the computer to finish.
- 5.) 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.
- 6.) Under **Category** choose the category (Planned or Unplanned) to specify the maintenance mode.
 - a. Under **Comment**: Type in an Optional Comment.

The screenshot shows a web browser window with the address bar displaying "SCOM Maintenance Mode Scheduler" and "om07/MM". The page title is "SCOM Maintenance Mode Scheduler". Below the title, there are tabs for "Windows", "Unix/Linux", "Groups", "Class", "Instant MM", and "Manage". The "Windows" tab is selected. The main heading is "Windows Computers" with a Windows logo icon. Below this, there are several input fields and buttons:

- Computers:** Two text boxes containing "DB07.SCOM2K16.com" and "DB12.SCOM2K16.com", each with a close button (X).
- Start Time:** A date and time picker showing "10/28/2018 02:00 AM".
- End Time:** A date and time picker showing "10/28/2018 04:00 AM".
- Category:** A dropdown menu showing "Planned - Other".
- Recurrence:** Four buttons: "Once" (selected), "Daily", "Weekly", and "Monthly".
- Advanced:** A link with a downward arrow.
- Confirmation:** A green box with the text "DB07.SCOM2K16.com (+ 1 Additional) - 120 minutes Maintenance Mode Scheduled Successfully" and a close button (X).
- Schedule:** An orange button.

7.) **Verify the job has been created** on the SCOM server by going to the **Manage Page**.



The screenshot shows a web browser window with the address bar displaying "om07/MM/Home/Manage". The page title is "SCOM Maintenance Mode Scheduler". A navigation bar contains tabs for "Windows", "Unix/Linux", "Groups", "Class", "Instant MM", and "Manage". The "Manage" tab is selected. Below the navigation bar, there is a "Manage" section with a server icon. The main content area contains several fields for configuring a maintenance mode schedule:

- Schedules:** A dropdown menu showing "DB07.SCOM2K16.com (+ 1 Additional) - 120 minutes".
- Enabled:** A checkbox that is checked.
- Next Runtime:** A text box showing "10/28/2018 02:00 AM".
- Last Runtime:** A text box showing "Never".
- Schedule:** A text box showing "Once".
- Duration:** A text box showing "120".
- Objects:** A text box showing "(DB12.SCOM2K16.com), (DB07.SCOM2K16.com)".
- Comments:** An empty text box.
- Status:** A text box showing "Not Running".

At the bottom of the page, there are four buttons: "Disable", "Enable", "Stop", and "Delete".

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)

Schedule Windows Maintenance Mode - SCOM1807 - Operations Manager

File Edit View Go Tasks Tools Help

Search Scope Find Tasks

Monitoring

- Monitoring
 - Active Alerts
 - All Events
 - Closed Alerts
 - Dash
 - Discovered Inventory
 - Distributed Applications
 - Maintenance Schedules
 - Task Status
 - UNIX/Linux Computers
 - Windows Computers
 - Microsoft Windows Server
 - Operations Management Suite
 - Operations Manager
 - SCOM Maintenance Mode Scheduler
 - Schedule Maintenance Mode
 - Schedule Unix Maintenance Mode
 - Schedule Windows Maintenance Mode
 - State
 - Synthetic Transaction
 - UNIX/Linux Computers
 - Web Application Transaction Monitoring
 - Windows Service And Process Monitoring

Schedule Windows Maintenance Mode

Windows Computers (10)

Health	Icon	Maintenance Mode	Display Name	NetBIOS Computer Name
✖			AP01.SCOM2K16.com	
✖			DB07.SCOM2K16.com	DB07
✖			DB12.SCOM2K16.com	DB12
✖			DB16.SCOM2K16.com	DB16
✖			DB17.SCOM2K16.com	DB17
✔			HV01.SCOM2K16.com	HV01
✔			HV02.SCOM2K16.com	HV02
✖			OM07.SCOM2K16.com	OM07
✖			SQ01.SCOM2K16.com	SQ01
✖			WA01.SCOM2K16.com	WA01

Schedule Maintenance Mode

SCOM Maintenance Mode Scheduler

Computers: DB07.SCOM2K16.com ✖ DB12.SCOM2K16.com ✖

Start Time: 10/27/2018 03:42 PM

End Time: 10/27/2018 04:12 PM

Category: Planned - Other

Recurrence: Once Daily Weekly Monthly

Advanced

Schedule

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/MM/Home/Groups>
- 2.) 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.

SCOM Maintenance Mode Sched

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om07/MM/Home/Groups

 **SCOM Maintenance Mode Scheduler**

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




Groups

Computers:


Microsof Exchange 2016 Computers Group ×

Start Time:



10/28/2018 02:00 AM

End Time:



10/28/2018 03:00 AM

Category:

Planned - Other ▼

Recurrence:

Once

Daily

Weekly

Monthly

☐ Day

☒ On:

Last ▼


Friday ▼

Of Every:

1 ▼

 Month(s)

End Recurrence Date



(Optional) Select End Date

Advanced ▼

Microsof Exchange 2016 Computers Group - 60 minutes - ×

Monthly Maintenance Mode Scheduled Successfully

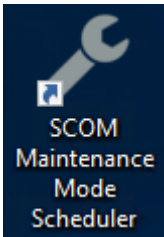
Schedule

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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://om07/MM/Home/InstantMM>

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://om07/MM/Home/InstantMM>
- 2.) The server is automatically put into maintenance for 60 minutes.

The screenshot shows a web browser window with the address bar displaying `http://om07/MM/Home/InstantMM`. The page title is "SCOM Maintenance Mode Scheduler". Below the title is a navigation bar with tabs: "Windows", "Unix/Linux", "Groups", "Class", "Instant MM" (selected), and "Manage". The main heading is "Instant MM" with a wrench icon. A green notification bar states: "DB07.scom2k16.com has been placed into Maintenance Mode for 1 Hour". Below this is a form titled "Options" containing two sections: "Change maintenance window" with a "Total Hours" dropdown set to "1" and a "Set" button, and "Stop Maintenance Mode" with a "Stop" button.

Instant Maintenance Mode with URL Parameters

SCOM Maintenance Mode Scheduler has the ability to add parameters to the URL.

- **ComputerName** – Specify the Computer Name
<http://om07/MM/Home/InstantMM?ComputerName=yourComputer.yourdomain.com>
- **Min** – Number of Minutes for Maintenance Mode

<http://om07/MM/Home/InstantMM?Min=120>

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

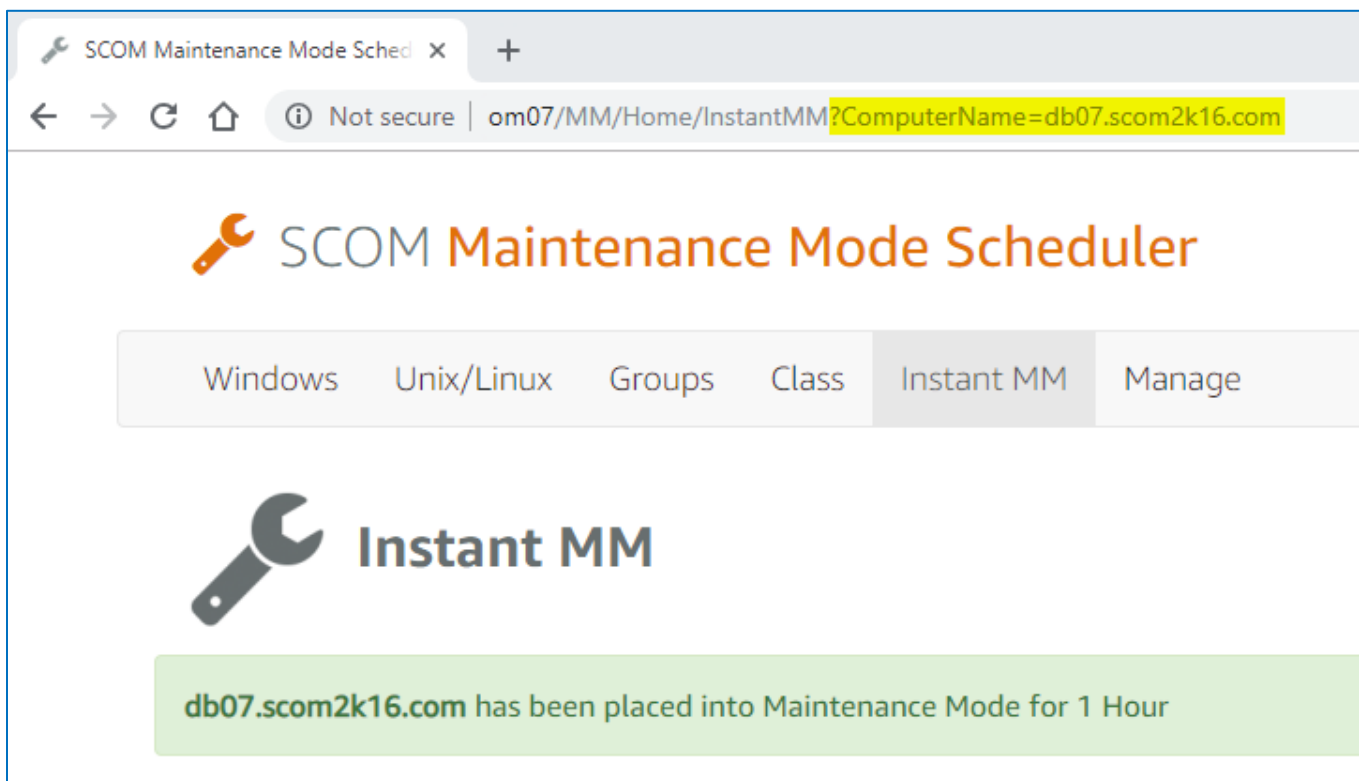
<http://om07/MM/Home/InstantMM?MMAction=Start>

<http://om07/MM/Home/InstantMM?MMAction=Stop>

- **Combine multiple URL Parameters**

<http://om07/MM/Home/InstantMM?ComputerName=DB02.scom2k16.com&Min=120&MMAction=Start>

Example



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: <https://www.scom2k7.com/wp-content/uploads/2018/10/computerMM.renameTOvbs.txt>

```
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 & "/MM/Home/InstantMM?ComputerName=" & computerName
    & "&Min=" & min & "&Action=" & action
WScript.Echo fullURL

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

```
Administrator: Command Prompt

C:\Temp>cscript computerMM.vbs OM07 DB07.scom2k16.com 120 start
Microsoft (R) Windows Script Host Version 5.812
Copyright (C) Microsoft Corporation. All rights reserved.

http://OM07/MM/Home/InstantMM?ComputerName=DB07.scom2k16.com&Min=120&Action=start
C:\Temp>
```

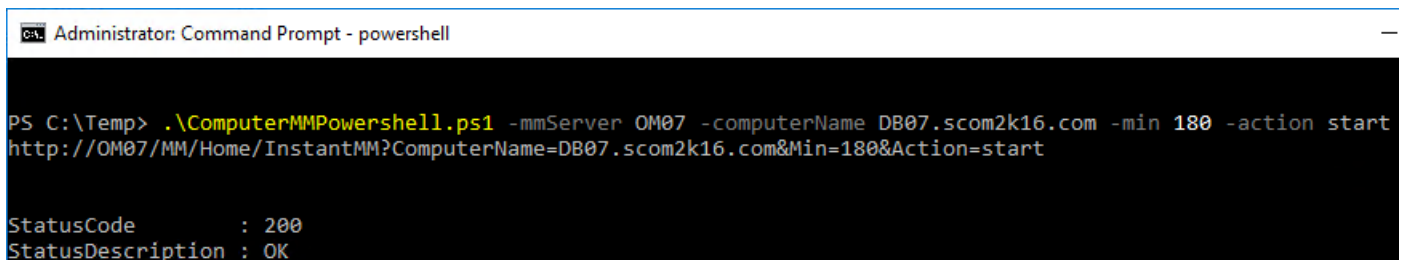
Windows Computers (10)					
State		Name	Agent	Management Server	Windows Operating System
Not monitored		DB07.SCOM2K...	Not monitored		Not monitored
Critical		SQ01.SCOM2K...	Healthy		Critical
Critical		DB17.SCOM2K...	Healthy		Critical
Critical		DB12.SCOM2K...	Healthy		Critical
Healthy		HV01.SCOM2K...	Healthy		Healthy
Critical		AP01.SCOM2K...	Healthy		Critical
Critical		OM07.SCOM2K...		Warning	Critical
Critical		DB16.SCOM2K...	Healthy		Critical
Healthy		HV02.SCOM2K...	Healthy		Healthy
Critical		WA01.SCOM2K...	Critical		Critical

PowerShell Example Download: <https://www.scom2k7.com/wp-content/uploads/2018/10/computerMM.renameTOps1.txt>

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

$FullURL = "http://" + $mmServer + "/MM/Home/InstantMM?ComputerName=" + $computerName +
"&Min=" + $min + "&Action=" + $action
$FullURL

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



The screenshot shows a Windows Command Prompt window titled "Administrator: Command Prompt - powershell". The command executed is: `PS C:\Temp> .\ComputerMMPowershell.ps1 -mmServer OM07 -computerName DB07.scom2k16.com -min 180 -action start`. The output shows the full URL being constructed: `http://OM07/MM/Home/InstantMM?ComputerName=DB07.scom2k16.com&Min=180&Action=start`. Below the command, the status is reported: `StatusCode : 200` and `StatusDescription : OK`.

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://om07/MM/Home/Class>
- 2.) Pick the **Class for the type of object**. Pick **IIS 10 Web Site**
- 3.) Under Object: Pick **all the SharePoint Websites to Schedule for Maintenance Mode**.
- 4.) Under **Start Time**; Pick the **time** and **date** for Maintenance Mode to Start.
- 5.) Under **End Time**; Pick the **time** and **date** for Maintenance Mode 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.
- 8.) Under **Comment**: Type in an Optional Comment.

SCOM Maintenance Mode Sched x

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⚠ Not secure | om07/MM/Home/Class

 **SCOM Maintenance Mode Scheduler**

Windows


Unix/Linux

Groups

Class

Instant MM

Manage

 **Class**

Class:

Web Site ▾

Objects:

Default Web Site | AP01.SCOM2K16.com ✕

W3SVC/1 | OM07.SCOM2K16.com ✕

Start Time:

📅

11/03/2018 04:00 AM

End Time:

📅

11/03/2018 05:00 AM

Category:

Planned - Other ▾

Recurrence:

Once

Daily

Weekly

Monthly

Advanced ▾

Default Web Site (+ 1 Additional) - 60 minutes Maintenance ✕

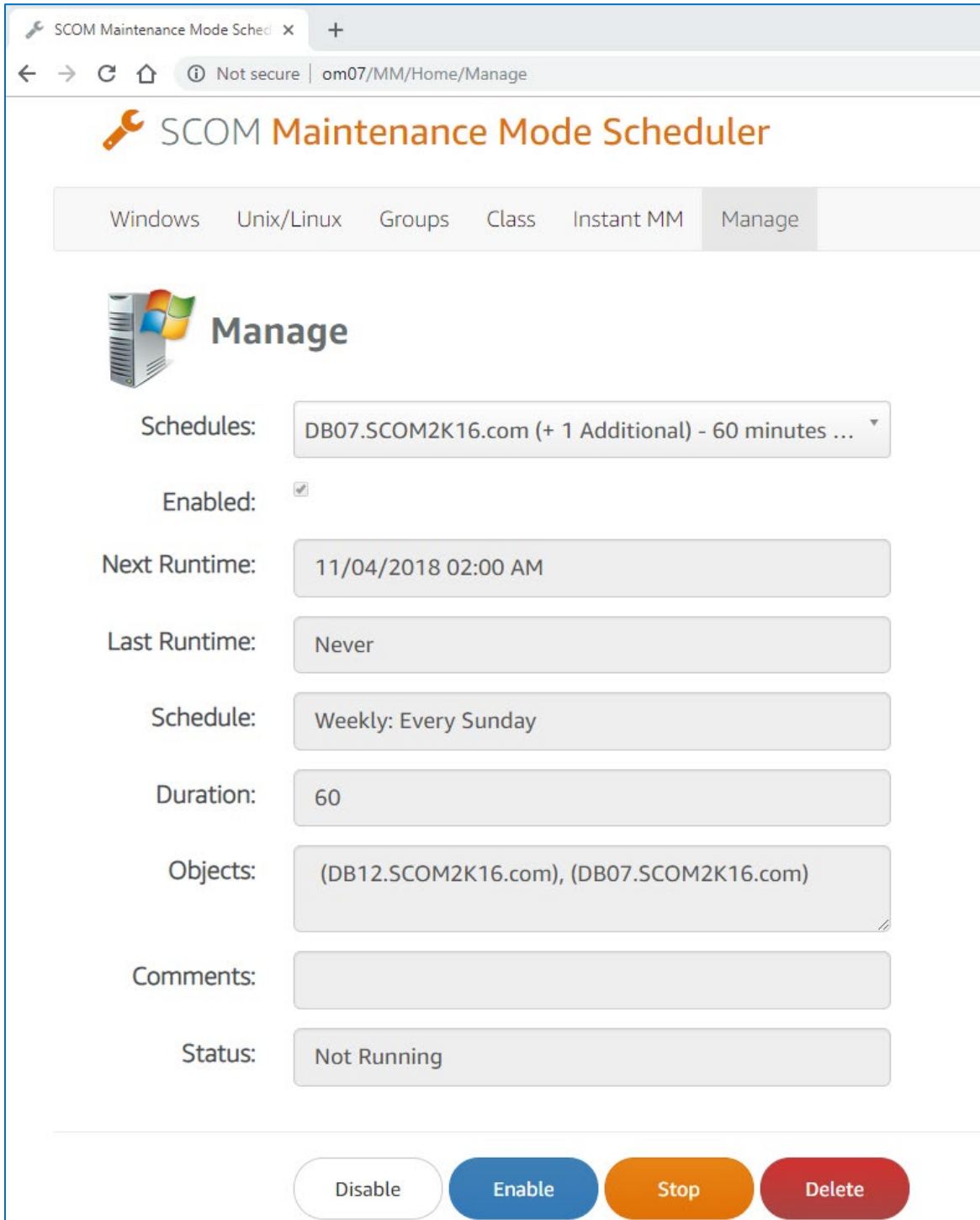
Mode Scheduled Successfully

Schedule

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 2AM 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**. "DB07.SCOM2K16.COM (+1 Additional) – 120 Minutes"
- 4.) Click the Delete Button



The screenshot shows a web browser window with the title "SCOM Maintenance Mode Scheduler". The address bar shows "om07/MM/Home/Manage". The page has a navigation bar with tabs: "Windows", "Unix/Linux", "Groups", "Class", "Instant MM", and "Manage". The "Manage" tab is selected. Below the navigation bar, there is a "Manage" section with a server icon. The main content area displays details for a selected schedule:

- Schedules:** DB07.SCOM2K16.com (+ 1 Additional) - 60 minutes ...
- Enabled:** ☒
- Next Runtime:** 11/04/2018 02:00 AM
- Last Runtime:** Never
- Schedule:** Weekly: Every Sunday
- Duration:** 60
- Objects:** (DB12.SCOM2K16.com), (DB07.SCOM2K16.com)
- Comments:**
- Status:** Not Running

At the bottom of the page, there are four buttons: "Disable", "Enable", "Stop", and "Delete".

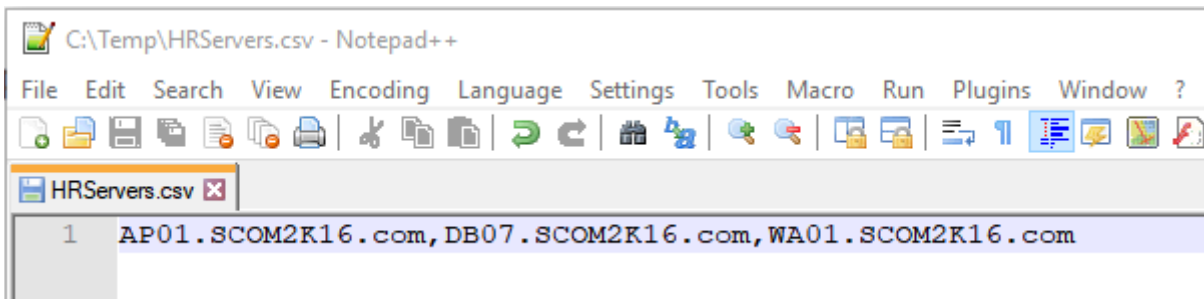
Add Computers using a CSV File

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/MM>
- 2.) Click the **Advanced..** Link at the bottom left of the Page to expand out the CSV option.
- 3.) Under **Computers, Optional Import CSV**; Click the **Choose File** button.
- 4.) Browse to the **location of the CSV file**; Click **Open**.
- 5.) Under **Start Time**; Pick the **time** and **date** for Maintenance Mode on the computers to Start.
- 6.) Under **End Time**; Pick the **time** and **date** for Maintenance Mode on the computers 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.


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

SCOM Maintenance Mode Scheduler

om07/MM/#

SCOM Maintenance Mode Scheduler

WindowsUnix/LinuxGroupsClassInstant MMManage



Windows Computers

Computers:

AP01.SCOM2K16.com ×DB07.SCOM2K16.com ×WA01.SCOM2K16.com ×

Import CSV

Select a CSV file to import servers from

Choose file

Start Time:

11/04/2018 03:00 AM

End Time:

11/04/2018 04:00 AM

Category:

Planned - Other

Recurrence:

OnceDailyWeeklyMonthly

Comment:

HR Application Weekly Maintenance

Job Name:

(Optional) Enter Custom Job Name

Advanced^