

RunTestSetSchedulerScheduler

(QC/ALM 11.x,ALM12.x)

Note:

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Introduction

Problem

ALM enables users to create sets of tests ([test sets](#)) and plan their execution: start time, planned host or host group, dependency. But there is no option to schedule these [test sets](#) to run periodically. **ALM** today does not have built in test set scheduler.

Solution

The existing OTA API enables to run external tool that can execute any test set on any host. As example **RunTestSetScheduler** application (with VB.Net 2010 source code) is supplied as part of proposed solution.

Any scheduler application can be used to launch **RunTestSetScheduler** application, for example Microsoft Scheduler (part of Windows installation).

RunTestSetScheduler Application

RunTestSetScheduler is windows console program that can be executed from command line. This program can execute specified test set. All parameters needed to specify a test set RunTestSetScheduler reads from command line.

Here is the command line syntax for RunTestSetScheduler tool:

```
RunTestSetScheduler /s:Server /d:Project /u:User /p>Password /f:Test setFolder [/t:Test set] [/h:Host] | [/g:HostGroup]
```

Where:

- /s:** ALM server name
- /n:** ALM Domain
- /d:** ALM Project
- /u:** User name
- /p:** User password
- /f:** Test set Folder Path
- /t:** [optional] Test set name
- /h:** [optional] Host name
- /g:** [optional] HostGroup name
- /m:** [optional] User Name who will receive a notification mail if the Test set Failed
- /l** [optional] run Test set locally

Note:

- 1- If **/h**, **/g** and **/l** switches are omitted, the test set will be executed as planned in execution tab.
- 2- If only Test set Folder path is specify then it will run all the test sets under this folder by looping through all test sets one by one.
- 3- If user wants to run only one test set, user needs to specify both the Test set Folder path and the Test set name of the test set user wants to run.

Examples:

```
RunTest setscheduler_ALM.exe /s:http://localhost:8080/qcbin /n:DEFAULT /d:ALM_Demo /u:alex_alm /f:Root\Demo\Scheduler\Pinned /t:Pinned /m:alex_alm@zyzygy.com
```

```
RunTest setscheduler_ALM.exe /s:http://localhost:8080/qcbin /n:DEFAULT /d:ALM_Demo /u:alex_alm  
/f:Root\Demo\Scheduler /t:RunTestSetScheduler/h:alex_alm1 /m:alex_alm@zyzygy.com > output.html
```

```
RunTest setscheduler_ALM.exe /s:http://localhost:8080/qcbin /n:DEFAULT /d:ALM_Demo /u:alex_alm  
/f:Root\Demo /t:Scheduler /h:16.98.70.178 /m:alex_alm@zyzygy.com
```

```
RunTest setscheduler_ALM.exe /s:http://localhost:8080/qcbin /n:DEFAULT /d:ALM_Demo /u:alex_alm  
/f:Root\Demo\Scheduler /t:RunTestSetScheduler/h:TM-QTP11Host-A /m:alex_alm@zyzygy.com
```

```
RunTest setscheduler_ALM.exe /s:http://localhost:8080/qcbin /n:DEFAULT /d:ALM_Demo /u:alex_alm  
/f:Root\Demo\Scheduler\Pinned /t:Pinned /h:"" /m:alex_alm@zyzygy.com
```

```
RunTest setscheduler_ALM.exe /s:http://localhost:8080/qcbin /n:DEFAULT /d:ALM_Demo /u:alex_alm  
/f:Root\Demo\Scheduler /t:RunTestSetScheduler/h:TM-QTP11Host-A /m:alex_alm@zyzygy.com
```

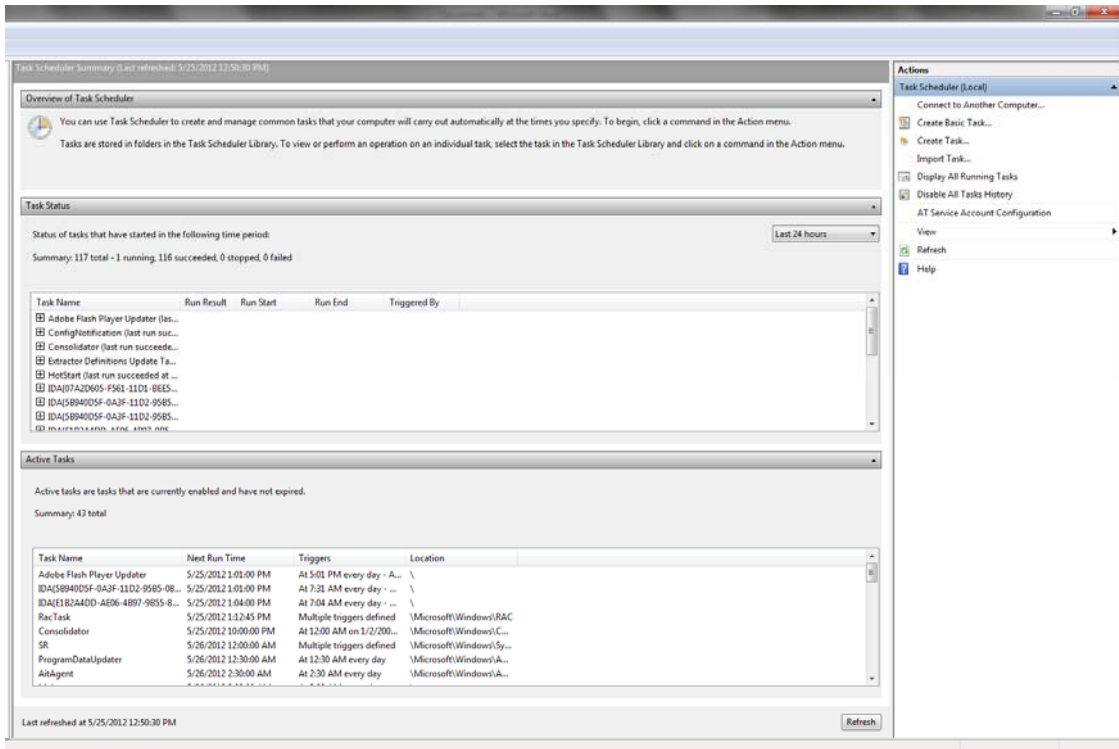
```
RunTest setscheduler_ALM.exe /s:http://localhost:8080/qcbin /n:DEFAULT /d:ALM_Demo /u:alex_alm  
/f:Root\Demo\Scheduler /t:RunTestSetScheduler/h:TM-QTP11Host-B /m:alex_alm@zyzygy.com
```

```
RunTest setscheduler_ALM.exe /s:http://localhost:8080/qcbin /n:DEFAULT /d:ALM_Demo /u:alex_alm  
/f:Root\Demo\Scheduler /t:RunTestSetScheduler/h:TM-QTP11Host-C /m:alex_alm@zyzygy.com
```

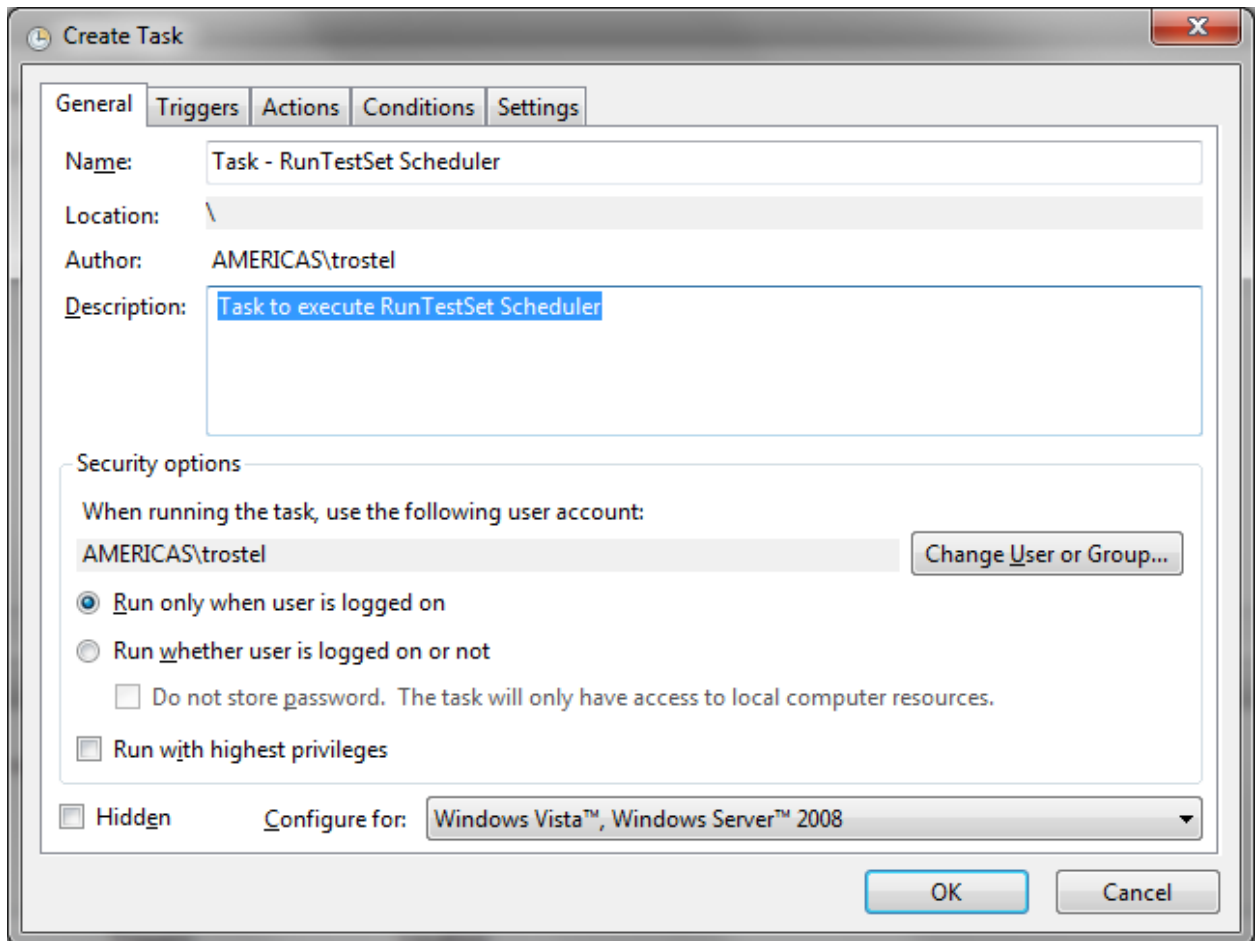
Implementation:

In Windows Vista or Windows 7...

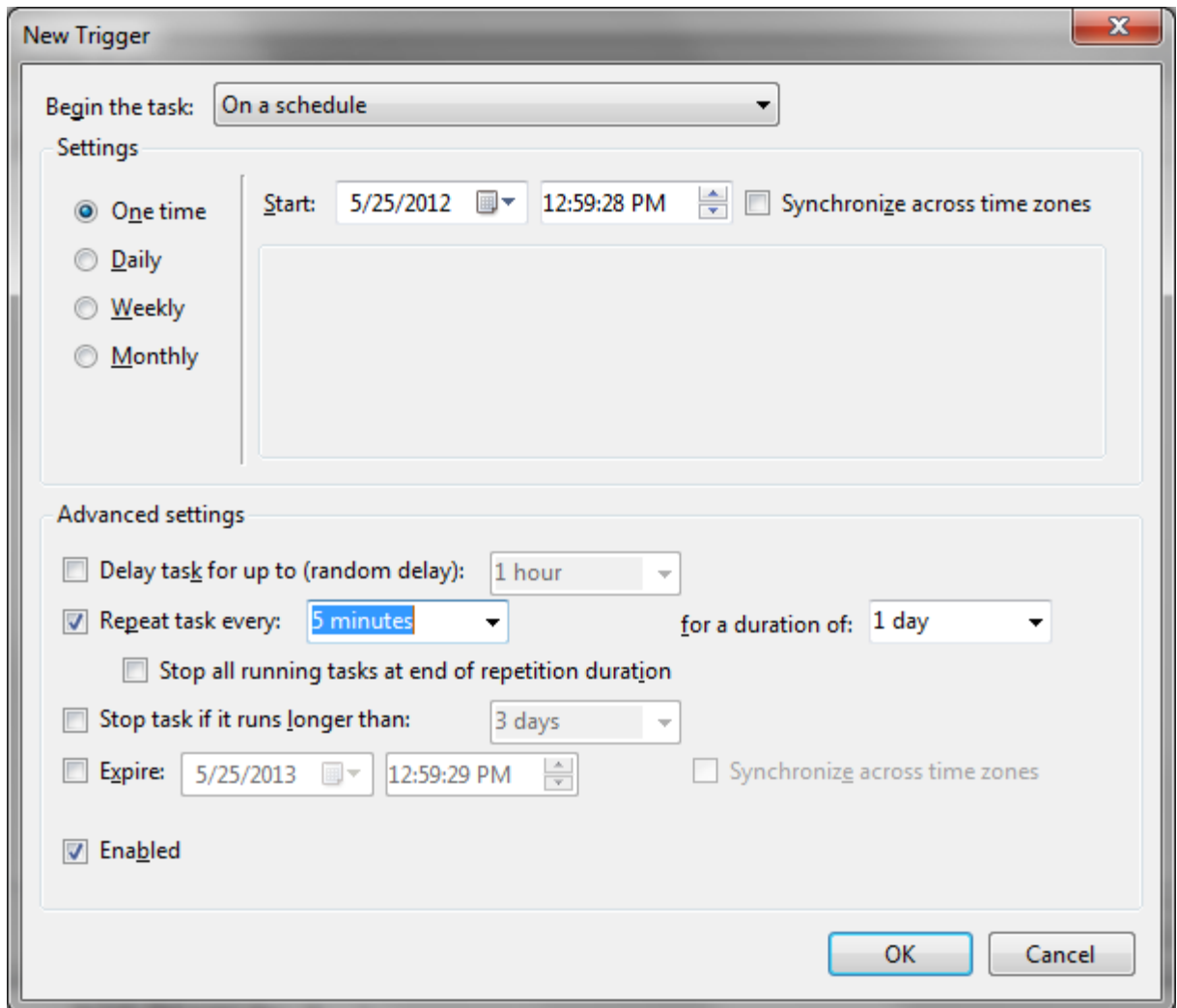
- 1) Click Start>Run, then type the following...
taskschd.msc
- 2) Click OK, the Task Scheduler should appear



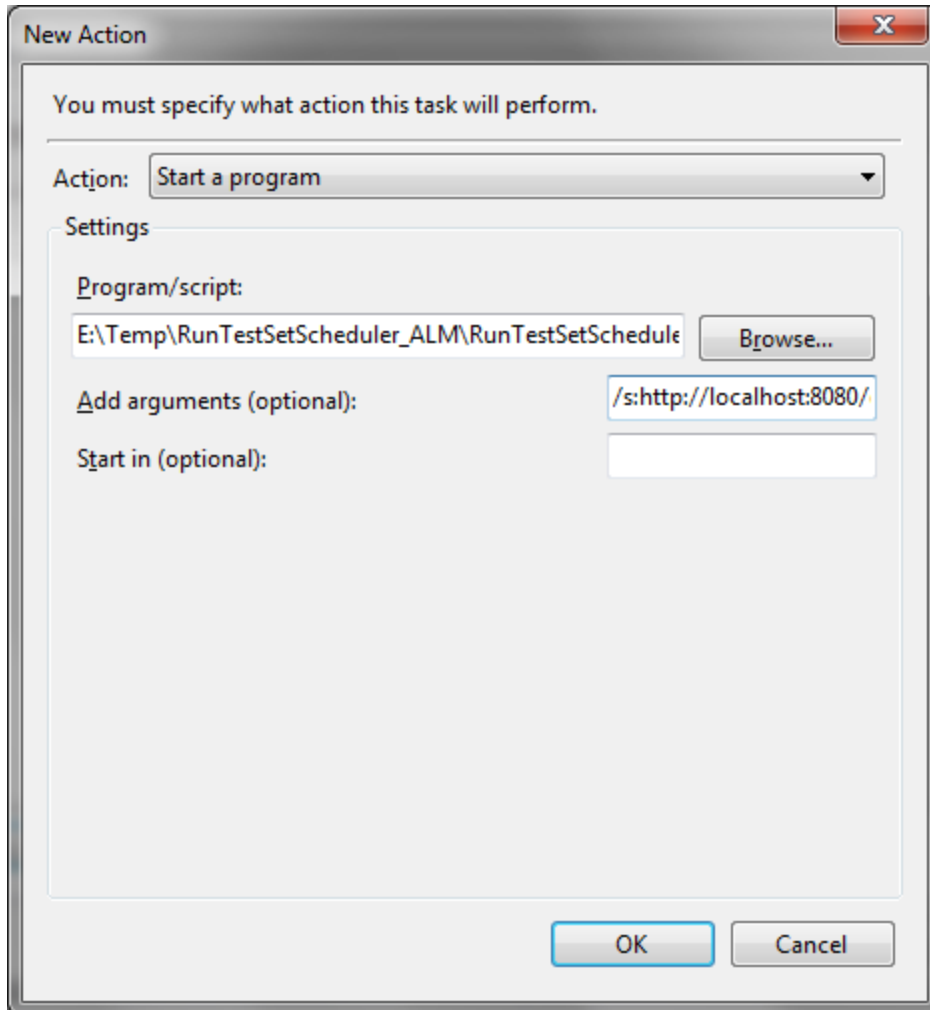
3) Click "Create Task..." in the far right column, the "Create Task" window will appear



- 4) Populate the Name, in this case “Task – RunTestSetScheduler”
- 5) Optional, populate the Description, in this case “Task to execute RunTestSetScheduler”
- 6) Make sure the “Run only when user is logged on” is selected as this is a requirement for tests to be executed on the client machine. It must be logged in, not at a password protected screen saver. (refer to page 1560 of the QTP 10 User guide, page 1762 of the QTP 11 User Guide)
- 7) Click the “Triggers” tab, this allows you to define the schedule.
- 8) Click “New” to recreate a new Trigger, in this example we use the following settings...



- 9) Click OK.
- 10) Click the "Actions" tab
- 11) Click "New", this allows us to add a new action



- 12) Click the “Browse” button and navigate to the “RunTest setscheduler_ALM.exe” in the utility. This could be in the “Release” or “Debug” folders of the compile application, for example...
 - a. E:\Temp\RunTestSetScheduler_ALM\RunTestSetScheduler_ALM\bin\Debug
 - Or
 - b. E:\Temp\RunTest setscheduler_ALM\RunTest setscheduler_ALM\bin\Release
- 13) In the “Add arguments” add the desired switches for the utility, in this example we’ve populated the field with the following...

```
/s:http://localhost:8080/qcbin /n:DEFAULT /d:ALM_Demo /u:alex_alm  
/f:Root\Phil\Scheduler\Pinned /t:Pinned /h:"" /m:alex_alm@xyzygy.com
```
- 14) Click OK
- 15) In the “Create Task” main dialog, configure the “Conditions” and “Settings” as necessary; these are not touched in this example
- 16) Click OK to close the “Create Task”. The task will run at the defined time based on the Trigger settings.