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Course code/name: CSE2010/ Secure Coding

Slot: L23 + L24

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LAB-3

```
Microsoft Windows [Version 10.0.19041.804]
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C:\Users\user>schtasks


Folder: \
TaskName                         Next Run Time      Status
======================================== ======================
==============
OneDrive Standalone Update Task-S-1-5-21 26-02-2021 10:48:16    Ready

Folder: \Hewlett-Packard
TaskName                         Next Run Time      Status
======================================== ======================
==============
INFO: There are no scheduled tasks presently available at your access level.


Folder: \Hewlett-Packard\HP Support Assistant
TaskName                         Next Run Time      Status
======================================== ======================
==============
HP Support Assistant Quick Start      N/A            Ready
HP Support Solutions Framework Updater - N/A            Ready
HP Support Solutions Framework Updater - N/A            Ready
PC Health Analysis            02-03-2021 15:39:13   Ready
Product Configurator            N/A          Ready


Folder: \Microsoft
TaskName                         Next Run Time      Status
======================================== ======================
==============
INFO: There are no scheduled tasks presently available at your access level.


Folder: \Microsoft\OneCore
TaskName                         Next Run Time      Status
======================================== ======================
==============
INFO: There are no scheduled tasks presently available at your access level.


Folder: \Microsoft\Windows
TaskName                         Next Run Time      Status
======================================== ======================
==============
INFO: There are no scheduled tasks presently available at your access level.
```

```
Folder: \Microsoft\Windows\.NET Framework
TaskName                          Next Run Time        Status
================================= ======================
==============
.NET Framework NGEN v4.0.30319       N/A              Ready
.NET Framework NGEN v4.0.30319 64     N/A               Ready
.NET Framework NGEN v4.0.30319 64 Critic N/A                Disabled
.NET Framework NGEN v4.0.30319 Critical  N/A                Disabled


Folder: \Microsoft\Windows\Active Directory Rights Management Services Client
TaskName                          Next Run Time        Status
================================= ======================
==============
AD RMS Rights Policy Template Management N/A                Disabled
AD RMS Rights Policy Template Management N/A                Ready


Folder: \Microsoft\Windows\AppID
TaskName                          Next Run Time        Status
================================= ======================
==============
PolicyConverter                      N/A              Disabled
VerifiedPublisherCertStoreCheck        N/A               Disabled


Folder: \Microsoft\Windows\Application Experience
TaskName                          Next Run Time        Status
================================= ======================
==============
Microsoft Compatibility Appraiser      26-02-2021 03:29:11    Ready
PcaPatchDbTask                       26-02-2021 04:25:43    Ready
ProgramDataUpdater                   N/A              Ready
StartupAppTask                       N/A              Ready


Folder: \Microsoft\Windows\ApplicationData
TaskName                          Next Run Time        Status
================================= ======================
==============
appuriverifierdaily                  N/A              Ready
appuriverifierinstall                 N/A              Ready
CleanupTemporaryState                N/A               Ready
DsSvcCleanup                        N/A              Ready


Folder: \Microsoft\Windows\AppxDeploymentClient
TaskName                          Next Run Time        Status
```

```
=========================================== ======================
==============
Pre-staged app cleanup            N/A              Disabled


Folder: \Microsoft\Windows\Autochk
TaskName                   Next Run Time      Status
=========================================== ======================
==============
Proxy                      N/A            Ready


Folder: \Microsoft\Windows\BitLocker
TaskName                   Next Run Time      Status
=========================================== ======================
==============
BitLocker Encrypt All Drives      N/A              Ready
BitLocker MDM policy Refresh      N/A              Ready


Folder: \Microsoft\Windows\Bluetooth
TaskName                   Next Run Time      Status
=========================================== ======================
==============
UninstallDeviceTask            N/A              Ready


Folder: \Microsoft\Windows\BrokerInfrastructure
TaskName                   Next Run Time      Status
=========================================== ======================
==============
BgTaskRegistrationMaintenanceTask    N/A              Ready


Folder: \Microsoft\Windows\CertificateServicesClient
TaskName                   Next Run Time      Status
=========================================== ======================
==============
UserTask                   N/A            Ready
UserTask-Roam                 N/A            Ready


Folder: \Microsoft\Windows\Chkdsk
TaskName                   Next Run Time      Status
=========================================== ======================
==============
ProactiveScan                 N/A              Ready
SyspartRepair                 N/A              Ready


Folder: \Microsoft\Windows\CloudExperienceHost
```

```
TaskName                         Next Run Time        Status
=========================================  ======================
===============
CreateObjectTask                 N/A              Ready


Folder: \Microsoft\Windows\Customer Experience Improvement Program
TaskName                         Next Run Time        Status
=========================================  ======================
===============
Consolidator                     26-02-2021 00:00:00   Ready
UsbCeip                          N/A              Ready


Folder: \Microsoft\Windows\Data Integrity Scan
TaskName                         Next Run Time        Status
=========================================  ======================
===============
Data Integrity Check And Scan          25-02-2021 23:07:06   Ready
Data Integrity Scan              N/A              Ready
Data Integrity Scan for Crash Recovery   N/A              Ready


Folder: \Microsoft\Windows\Defrag
TaskName                         Next Run Time        Status
=========================================  ======================
===============
ScheduledDefrag                  N/A              Ready


Folder: \Microsoft\Windows\Device Information
TaskName                         Next Run Time        Status
=========================================  ======================
===============
Device                           26-02-2021 03:37:55   Ready
Device User                      N/A              Ready


Folder: \Microsoft\Windows\Diagnosis
TaskName                         Next Run Time        Status
=========================================  ======================
===============
RecommendedTroubleshootingScanner      N/A              Ready
Scheduled                        N/A              Ready


Folder: \Microsoft\Windows\DirectX
TaskName                         Next Run Time        Status
=========================================  ======================
===============
```

```
DirectXDatabaseUpdater          N/A              Ready
DXGIAdapterCache                N/A              Ready


Folder: \Microsoft\Windows\DiskCleanup
TaskName                        Next Run Time        Status
======================================= ======================
==============
SilentCleanup                   N/A              Ready


Folder: \Microsoft\Windows\DiskDiagnostic
TaskName                        Next Run Time        Status
======================================= ======================
==============
Microsoft-Windows-DiskDiagnosticDataColl N/A            Disabled
Microsoft-Windows-DiskDiagnosticResolver N/A             Disabled


Folder: \Microsoft\Windows\DiskFootprint
TaskName                        Next Run Time        Status
======================================= ======================
==============
Diagnostics                     N/A          Ready
StorageSense                    N/A          Ready


Folder: \Microsoft\Windows\DUSM
TaskName                        Next Run Time        Status
======================================= ======================
==============
dusmtask                        N/A          Ready


Folder: \Microsoft\Windows\EDP
TaskName                        Next Run Time        Status
======================================= ======================
==============
EDP App Launch Task             N/A              Ready
EDP Auth Task                   N/A          Ready
EDP Inaccessible Credentials Task   N/A              Ready
StorageCardEncryption Task          N/A              Ready


Folder: \Microsoft\Windows\ExploitGuard
TaskName                        Next Run Time        Status
======================================= ======================
==============
ExploitGuard MDM policy Refresh     N/A              Ready
```

Folder: \Microsoft\Windows\Feedback
TaskName   Next Run Time   Status
== =======================
==============
INFO: There are no scheduled tasks presently available at your access level.

Folder: \Microsoft\Windows\Feedback\Siuf
TaskName   Next Run Time   Status
== =======================
==============
DmClient   N/A   Ready
DmClientOnScenarioDownload   N/A   Ready

Folder: \Microsoft\Windows\File Classification Infrastructure
TaskName   Next Run Time   Status
== =======================
==============
Property Definition Sync   N/A   Disabled

Folder: \Microsoft\Windows\FileHistory
TaskName   Next Run Time   Status
== =======================
==============
File History (maintenance mode)   N/A   Ready

Folder: \Microsoft\Windows\Flighting
TaskName   Next Run Time   Status
== =======================
==============
INFO: There are no scheduled tasks presently available at your access level.

Folder: \Microsoft\Windows\Flighting\FeatureConfig
TaskName   Next Run Time   Status
== =======================
==============
ReconcileFeatures   N/A   Ready
UsageDataFlushing   N/A   Ready
UsageDataReporting   N/A   Ready

Folder: \Microsoft\Windows\Flighting\OneSettings
TaskName   Next Run Time   Status
== =======================
==============
RefreshCache   25-02-2021 22:10:11   Ready

```
Folder: \Microsoft\Windows\Input
TaskName                          Next Run Time        Status
============================================ =======================
==============
LocalUserSyncDataAvailable              N/A             Ready
MouseSyncDataAvailable                  N/A             Ready
PenSyncDataAvailable           N/A             Ready
TouchpadSyncDataAvailable               N/A             Ready


Folder: \Microsoft\Windows\InstallService
TaskName                          Next Run Time        Status
============================================ =======================
==============
ScanForUpdates                 26-02-2021 05:45:38   Ready
ScanForUpdatesAsUser             N/A             Ready
WakeUpAndContinueUpdates               N/A             Disabled
WakeUpAndScanForUpdates                N/A             Disabled


Folder: \Microsoft\Windows\International
TaskName                          Next Run Time        Status
============================================ =======================
==============
Synchronize Language Settings           N/A             Ready


Folder: \Microsoft\Windows\LanguageComponentsInstaller
TaskName                          Next Run Time        Status
============================================ =======================
==============
Installation                 N/A              Ready
ReconcileLanguageResources              N/A             Ready


Folder: \Microsoft\Windows\Live
TaskName                          Next Run Time        Status
============================================ =======================
==============
INFO: There are no scheduled tasks presently available at your access level.


Folder: \Microsoft\Windows\Location
TaskName                          Next Run Time        Status
============================================ =======================
==============
Notifications                 N/A              Ready
WindowsActionDialog              N/A             Ready
```

Folder: \Microsoft\Windows\Maintenance
TaskName   Next Run Time   Status
=== =======================
==============
WinSAT   N/A   Ready

Folder: \Microsoft\Windows\Management
TaskName   Next Run Time   Status
=== =======================
==============
INFO: There are no scheduled tasks presently available at your access level.

Folder: \Microsoft\Windows\Management\Provisioning
TaskName   Next Run Time   Status
=== =======================
==============
Cellular   N/A   Ready
Logon   N/A   Ready
Retry   N/A   Disabled
RunOnReboot   N/A   Disabled

Folder: \Microsoft\Windows\Maps
TaskName   Next Run Time   Status
=== =======================
==============
MapsToastTask   N/A   Ready
MapsUpdateTask   N/A   Disabled

Folder: \Microsoft\Windows\MemoryDiagnostic
TaskName   Next Run Time   Status
=== =======================
==============
ProcessMemoryDiagnosticEvents   N/A   Ready
RunFullMemoryDiagnostic   N/A   Ready

Folder: \Microsoft\Windows\Mobile Broadband Accounts
TaskName   Next Run Time   Status
=== =======================
==============
MNO Metadata Parser   N/A   Ready

Folder: \Microsoft\Windows\MUI
TaskName   Next Run Time   Status

```
=============================================== ======================
==============
LPRemove                    N/A              Ready


Folder: \Microsoft\Windows\Multimedia
TaskName                    Next Run Time       Status
=============================================== ======================
==============
SystemSoundsService            N/A              Running


Folder: \Microsoft\Windows\NetTrace
TaskName                    Next Run Time       Status
=============================================== ======================
==============
GatherNetworkInfo            N/A              Ready


Folder: \Microsoft\Windows\NlaSvc
TaskName                    Next Run Time       Status
=============================================== ======================
==============
WiFiTask                    N/A              Ready


Folder: \Microsoft\Windows\Offline Files
TaskName                    Next Run Time       Status
=============================================== ======================
==============
Background Synchronization        N/A              Disabled
Logon Synchronization            N/A              Disabled


Folder: \Microsoft\Windows\PLA
TaskName                    Next Run Time       Status
=============================================== ======================
==============
INFO: There are no scheduled tasks presently available at your access level.


Folder: \Microsoft\Windows\Plug and Play
TaskName                    Next Run Time       Status
=============================================== ======================
==============
Device Install Group Policy        N/A              Ready
Device Install Reboot Required      N/A              Ready
Sysprep Generalize Drivers          N/A              Ready


Folder: \Microsoft\Windows\Power Efficiency Diagnostics
```

```
TaskName                       Next Run Time      Status
============================== ======================
==============
AnalyzeSystem                  N/A                Ready


Folder: \Microsoft\Windows\Printing
TaskName                       Next Run Time      Status
============================== ======================
==============
EduPrintProv                   N/A                Ready


Folder: \Microsoft\Windows\RecoveryEnvironment
TaskName                       Next Run Time      Status
============================== ======================
==============
VerifyWinRE                    N/A                Disabled


Folder: \Microsoft\Windows\Registry
TaskName                       Next Run Time      Status
============================== ======================
==============
RegIdleBackup                  N/A                Ready


Folder: \Microsoft\Windows\Servicing
TaskName                       Next Run Time      Status
============================== ======================
==============
StartComponentCleanup          N/A                Ready


Folder: \Microsoft\Windows\SettingSync
TaskName                       Next Run Time      Status
============================== ======================
==============
BackgroundUploadTask           N/A                Ready
NetworkStateChangeTask         N/A                Ready


Folder: \Microsoft\Windows\SharedPC
TaskName                       Next Run Time      Status
============================== ======================
==============
Account Cleanup                N/A                Disabled


Folder: \Microsoft\Windows\Shell
TaskName                       Next Run Time      Status
```

```
================================================= =======================
===============
CreateObjectTask                 N/A              Ready
FamilySafetyMonitor              N/A              Ready
FamilySafetyRefreshTask          N/A              Ready
IndexerAutomaticMaintenance          N/A              Ready


Folder: \Microsoft\Windows\SoftwareProtectionPlatform
TaskName                         Next Run Time     Status
================================================= =======================
===============
SvcRestartTaskLogon              N/A              Ready


Folder: \Microsoft\Windows\SpacePort
TaskName                         Next Run Time     Status
================================================= =======================
===============
SpaceAgentTask                   N/A              Ready
SpaceManagerTask                 N/A              Ready


Folder: \Microsoft\Windows\StateRepository
TaskName                         Next Run Time     Status
================================================= =======================
===============
MaintenanceTasks                 N/A              Ready


Folder: \Microsoft\Windows\Storage Tiers Management
TaskName                         Next Run Time     Status
================================================= =======================
===============
Storage Tiers Management Initialization  N/A              Ready
Storage Tiers Optimization           N/A              Disabled


Folder: \Microsoft\Windows\Subscription
TaskName                         Next Run Time     Status
================================================= =======================
===============
EnableLicenseAcquisition             N/A              Ready
LicenseAcquisition               N/A              Disabled


Folder: \Microsoft\Windows\Sysmain
TaskName                         Next Run Time     Status
================================================= =======================
===============
```

```
HybridDriveCachePrepopulate          N/A                Disabled
HybridDriveCacheRebalance            N/A                Disabled
ResPriStaticDbSync            N/A            Ready
WsSwapAssessmentTask                 N/A                Ready


Folder: \Microsoft\Windows\SystemRestore
TaskName                      Next Run Time        Status
======================================== =======================
==============
SR                      N/A                Ready


Folder: \Microsoft\Windows\Task Manager
TaskName                      Next Run Time        Status
======================================== =======================
==============
Interactive                   N/A                Ready


Folder: \Microsoft\Windows\termsrv
TaskName                      Next Run Time        Status
======================================== =======================
==============
INFO: There are no scheduled tasks presently available at your access level.


Folder: \Microsoft\Windows\termsrv\RemoteFX
TaskName                      Next Run Time        Status
======================================== =======================
==============
RemoteFXvGPUDisableTask              N/A                Ready
RemoteFXWarningTask              25-03-2021 13:00:00    Ready


Folder: \Microsoft\Windows\TextServicesFramework
TaskName                      Next Run Time        Status
======================================== =======================
==============
MsCtfMonitor                  N/A                Ready


Folder: \Microsoft\Windows\Time Synchronization
TaskName                      Next Run Time        Status
======================================== =======================
==============
ForceSynchronizeTime                 N/A                Ready
SynchronizeTime               N/A                Ready


Folder: \Microsoft\Windows\Time Zone
```

TaskName	Next Run Time	Status
===================================	=======================	======================
SynchronizeTimeZone	N/A	Ready

Folder: \Microsoft\Windows\UNP

TaskName	Next Run Time	Status
===================================	=======================	======================
RunUpdateNotificationMgr	N/A	Disabled

Folder: \Microsoft\Windows\UPnP

TaskName	Next Run Time	Status
===================================	=======================	======================
UPnPHostConfig	N/A	Ready

Folder: \Microsoft\Windows\USB

TaskName	Next Run Time	Status
===================================	=======================	======================
Usb-Notifications	N/A	Ready

Folder: \Microsoft\Windows\WCM

TaskName	Next Run Time	Status
===================================	=======================	======================
WiFiTask	N/A	Ready

Folder: \Microsoft\Windows\WDI

TaskName	Next Run Time	Status
===================================	=======================	======================
ResolutionHost	N/A	Ready

Folder: \Microsoft\Windows\Windows Error Reporting

TaskName	Next Run Time	Status
===================================	=======================	======================
QueueReporting	25-02-2021 22:17:45	Ready

Folder: \Microsoft\Windows\Windows Filtering Platform

| TaskName | Next Run Time | Status |

```
===========================================  =======================
==============
BfeOnServiceStartTypeChange         N/A              Ready


Folder: \Microsoft\Windows\Windows Media Sharing
TaskName                     Next Run Time      Status
===========================================  =======================
==============
UpdateLibrary               N/A              Ready


Folder: \Microsoft\Windows\WindowsColorSystem
TaskName                     Next Run Time      Status
===========================================  =======================
==============
Calibration Loader          N/A              Ready


Folder: \Microsoft\Windows\WindowsUpdate
TaskName                     Next Run Time      Status
===========================================  =======================
==============
Scheduled Start                  26-02-2021 10:40:58    Ready


Folder: \Microsoft\Windows\Wininet
TaskName                     Next Run Time      Status
===========================================  =======================
==============
CacheTask                   N/A              Running


Folder: \Microsoft\Windows\WlanSvc
TaskName                     Next Run Time      Status
===========================================  =======================
==============
CDSSync                     N/A              Ready


Folder: \Microsoft\Windows\Work Folders
TaskName                     Next Run Time      Status
===========================================  =======================
==============
Work Folders Logon Synchronization      N/A                Ready
Work Folders Maintenance Work        N/A                Ready


Folder: \Microsoft\Windows\Workplace Join
TaskName                     Next Run Time      Status
```

```
=========================================== ====================
===============
Automatic-Device-Join            N/A            Disabled
Device-Sync                      N/A         Disabled
Recovery-Check                   N/A            Disabled

Folder: \Microsoft\Windows\WwanSvc
TaskName                        Next Run Time      Status
=========================================== ====================
===============
NotificationTask                 N/A            Ready
OobeDiscovery                    N/A            Disabled

Folder: \Microsoft\XblGameSave
TaskName                        Next Run Time      Status
=========================================== ====================
===============
XblGameSaveTask                  N/A            Ready

Folder: \Mozilla
TaskName                        Next Run Time      Status
=========================================== ====================
===============
Firefox Default Browser Agent 308046B0AF 26-02-2021 07:04:58   Ready

C:\Users\user>schtasks /?

SCHTASKS /parameter [arguments]

Description:
    Enables an administrator to create, delete, query, change, run and
    end scheduled tasks on a local or remote system.

Parameter List:
    /Create      Creates a new scheduled task.

    /Delete      Deletes the scheduled task(s).

    /Query       Displays all scheduled tasks.

    /Change      Changes the properties of scheduled task.

    /Run         Runs the scheduled task on demand.
```

/End   Stops the currently running scheduled task.

/ShowSid   Shows the security identifier corresponding to a scheduled task name.

/?   Displays this help message.

Examples:
    SCHTASKS
    SCHTASKS /?
    SCHTASKS /Run /?
    SCHTASKS /End /?
    SCHTASKS /Create /?
    SCHTASKS /Delete /?
    SCHTASKS /Query /?
    SCHTASKS /Change /?
    SCHTASKS /ShowSid /?

C:\Users\user>schtasks /create/?
ERROR: Invalid argument/option - '/create/?'.
Type "SCHTASKS /QUERY /?" for usage.

C:\Users\user>schtasks /create /?

SCHTASKS /Create [/S system [/U username [/P [password]]]]
    [/RU username [/RP password]] /SC schedule [/MO modifier] [/D day]
    [/M months] [/I idletime] /TN taskname /TR taskrun [/ST starttime]
    [/RI interval] [{/ET endtime | /DU duration} [/K] [/XML xmlfile] [/V1]]
    [/SD startdate] [/ED enddate] [/IT | /NP] [/Z] [/F] [/HRESULT] [/?]

Description:
    Enables an administrator to create scheduled tasks on a local or
    remote system.

Parameter List:
    /S   system   Specifies the remote system to connect to. If omitted
                      the system parameter defaults to the local system.

    /U   username   Specifies the user context under which SchTasks.exe
                      should execute.

    /P   [password]   Specifies the password for the given user context.
                      Prompts for input if omitted.

    /RU username   Specifies the "run as" user account (user context)

under which the task runs. For the system account,
valid values are "", "NT AUTHORITY\SYSTEM"
or "SYSTEM".
For v2 tasks, "NT AUTHORITY\LOCALSERVICE" and
"NT AUTHORITY\NETWORKSERVICE" are also available as well
as the well known SIDs for all three.

/RP [password]   Specifies the password for the "run as" user.
To prompt for the password, the value must be either
"*" or none. This password is ignored for the
system account. Must be combined with either /RU or
/XML switch.

/SC   schedule   Specifies the schedule frequency.
Valid schedule types: MINUTE, HOURLY, DAILY, WEEKLY,
MONTHLY, ONCE, ONSTART, ONLOGON, ONIDLE, ONEVENT.

/MO   modifier   Refines the schedule type to allow finer control over
schedule recurrence. Valid values are listed in the
"Modifiers" section below.

/D   days   Specifies the day of the week to run the task. Valid
values: MON, TUE, WED, THU, FRI, SAT, SUN and for
MONTHLY schedules 1 - 31 (days of the month).
Wildcard "*" specifies all days.

/M   months   Specifies month(s) of the year. Defaults to the first
day of the month. Valid values: JAN, FEB, MAR, APR,
MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC. Wildcard "*"
specifies all months.

/I   idletime   Specifies the amount of idle time to wait before
running a scheduled ONIDLE task.
Valid range: 1 - 999 minutes.

/TN   taskname   Specifies the string in the form of path\name
which uniquely identifies this scheduled task.

/TR   taskrun   Specifies the path and file name of the program to be
run at the scheduled time.
Example: C:\windows\system32\calc.exe

/ST   starttime   Specifies the start time to run the task. The time
format is HH:mm (24 hour time) for example, 14:30 for

2:30 PM. Defaults to current time if /ST is not
specified. This option is required with /SC ONCE.

/RI   interval   Specifies the repetition interval in minutes. This is
                   not applicable for schedule types: MINUTE, HOURLY,
                   ONSTART, ONLOGON, ONIDLE, ONEVENT.
                   Valid range: 1 - 599940 minutes.
                   If either /ET or /DU is specified, then it defaults to
                   10 minutes.

/ET   endtime   Specifies the end time to run the task. The time format
                   is HH:mm (24 hour time) for example, 14:50 for 2:50 PM.
                   This is not applicable for schedule types: ONSTART,
                   ONLOGON, ONIDLE, ONEVENT.

/DU   duration   Specifies the duration to run the task. The time
                   format is HH:mm. This is not applicable with /ET and
                   for schedule types: ONSTART, ONLOGON, ONIDLE, ONEVENT.
                   For /V1 tasks, if /RI is specified, duration defaults
                   to 1 hour.

/K   Terminates the task at the endtime or duration time.
                   This is not applicable for schedule types: ONSTART,
                   ONLOGON, ONIDLE, ONEVENT. Either /ET or /DU must be
                   specified.

/SD   startdate   Specifies the first date on which the task runs. The
                   format is dd/mm/yyyy. Defaults to the current
                   date. This is not applicable for schedule types: ONCE,
                   ONSTART, ONLOGON, ONIDLE, ONEVENT.

/ED   enddate   Specifies the last date when the task should run. The
                   format is dd/mm/yyyy. This is not applicable for
                   schedule types: ONCE, ONSTART, ONLOGON, ONIDLE, ONEVENT.

/EC   ChannelName Specifies the event channel for OnEvent triggers.

/IT   Enables the task to run interactively only if the /RU
                   user is currently logged on at the time the job runs.
                   This task runs only if the user is logged in.

/NP   No password is stored. The task runs non-interactively
                   as the given user. Only local resources are available.

/Z   Marks the task for deletion after its final run.

/XML xmlfile   Creates a task from the task XML specified in a file.
                Can be combined with /RU and /RP switches, or with /RP
                alone, when task XML already contains the principal.

/V1   Creates a task visible to pre-Vista platforms.
                Not compatible with /XML.

/F   Forcefully creates the task and suppresses warnings if
                the specified task already exists.

/RL   level   Sets the Run Level for the job. Valid values are
                LIMITED and HIGHEST. The default is LIMITED.

/DELAY delaytime   Specifies the wait time to delay the running of the
                task after the trigger is fired. The time format is
                mmmm:ss. This option is only valid for schedule types
                ONSTART, ONLOGON, ONEVENT.

/HRESULT   For better diagnosability, the process exit code
                will be in the HRESULT format.

/?   Displays this help message.

Modifiers: Valid values for the /MO switch per schedule type:
    MINUTE: 1 - 1439 minutes.
    HOURLY: 1 - 23 hours.
    DAILY: 1 - 365 days.
    WEEKLY: weeks 1 - 52.
    ONCE: No modifiers.
    ONSTART: No modifiers.
    ONLOGON: No modifiers.
    ONIDLE: No modifiers.
    MONTHLY: 1 - 12, or
          FIRST, SECOND, THIRD, FOURTH, LAST, LASTDAY.

    ONEVENT: XPath event query string.
Examples:
    ==> Creates a scheduled task "doc" on the remote machine "ABC"
        which runs notepad.exe every hour under user "runasuser".

        SCHTASKS /Create /S ABC /U user /P password /RU runasuser
              /RP runaspassword /SC HOURLY /TN doc /TR notepad

==> Creates a scheduled task "accountant" on the remote machine
    "ABC" to run calc.exe every five minutes from the specified
    start time to end time between the start date and end date.

    SCHTASKS /Create /S ABC /U domain\user /P password /SC MINUTE
        /MO 5 /TN accountant /TR calc.exe /ST 12:00 /ET 14:00
        /SD 06/06/2006 /ED 06/06/2006 /RU runasuser /RP userpassword

==> Creates a scheduled task "gametime" to run freecell on the
    first Sunday of every month.

    SCHTASKS /Create /SC MONTHLY /MO first /D SUN /TN gametime
        /TR c:\windows\system32\freecell

==> Creates a scheduled task "report" on remote machine "ABC"
    to run notepad.exe every week.

    SCHTASKS /Create /S ABC /U user /P password /RU runasuser
        /RP runaspassword /SC WEEKLY /TN report /TR notepad.exe

==> Creates a scheduled task "logtracker" on remote machine "ABC"
    to run notepad.exe every five minutes starting from the
    specified start time with no end time. The /RP password will be
    prompted for.

    SCHTASKS /Create /S ABC /U domain\user /P password /SC MINUTE
        /MO 5 /TN logtracker
        /TR c:\windows\system32\notepad.exe /ST 18:30
        /RU runasuser /RP

==> Creates a scheduled task "gaming" to run freecell.exe starting
    at 12:00 and automatically terminating at 14:00 hours every day

    SCHTASKS /Create /SC DAILY /TN gaming /TR c:\freecell /ST 12:00
        /ET 14:00 /K
==> Creates a scheduled task "EventLog" to run wevtvwr.msc starting
    whenever event 101 is published in the System channel

    SCHTASKS /Create /TN EventLog /TR wevtvwr.msc /SC ONEVENT
        /EC System /MO *[System/EventID=101]
==> Spaces in file paths can be used by using two sets of quotes, one
    set for CMD.EXE and one for SchTasks.exe. The outer quotes for CMD
    need to be double quotes; the inner quotes can be single quotes or

```
    escaped double quotes:
    SCHTASKS /Create
       /tr "'c:\program files\internet explorer\iexplorer.exe'
       \"c:\log data\today.xml\"" ...
```

C:\Users\user>cd Desktop

C:\Users\user\Desktop>schtasks /create /TN 18BCN7076_Task1 /st 16:52:00 /sc ONCE /tr schtasks.txt
WARNING: Task may not run because /ST is earlier than current time.
SUCCESS: The scheduled task "18BCN7076_Task1" has successfully been created.

C:\Users\user\Desktop>schtasks /create /TN 18BCN7076_Task1 /st 21:28:00 /sc ONCE /tr schtasks.txt
WARNING: The task name "18BCN7076_Task1" already exists. Do you want to replace it (Y/N)? y
SUCCESS: The scheduled task "18BCN7076_Task1" has successfully been created.

C:\Users\user\Desktop>schtasks /create /TN 18BCN7076_Task1 /st 21:28:00 /sc ONCE /tr test.txt
WARNING: Task may not run because /ST is earlier than current time.
WARNING: The task name "18BCN7076_Task1" already exists. Do you want to replace it (Y/N)? n
INFO: Operation has been cancelled.

C:\Users\user\Desktop>schtasks /create /TN 18BCN7076_Task1 /st 21:30:00 /sc ONCE /tr test.txt
WARNING: The task name "18BCN7076_Task1" already exists. Do you want to replace it (Y/N)? y
SUCCESS: The scheduled task "18BCN7076_Task1" has successfully been created.

C:\Users\user\Desktop>schtasks /create /TN 18BCN7076_Task1 /st 21:30:00 /sc ONCE /tr notepad.exe
WARNING: The task name "18BCN7076_Task1" already exists. Do you want to replace it (Y/N)? y
SUCCESS: The scheduled task "18BCN7076_Task1" has successfully been created.

C:\Users\user\Desktop>schtasks /Change /?

```
SCHTASKS /Change [/S system [/U username [/P [password]]]] /TN taskname
    { [/RU runasuser] [/RP runaspassword] [/TR taskrun] [/ST starttime]
      [/RI interval] [ {/ET endtime | /DU duration} [/K] ]
      [/SD startdate] [/ED enddate] [/ENABLE | /DISABLE] [/IT] [/Z] }
      [/HRESULT] [/?]
```

Description:
    Changes the program to run, or user account and password used
    by a scheduled task.

Parameter List:
    /S   system   Specifies the remote system to connect to.

    /U   username   Specifies the user context under which schtasks.exe
                        should execute.

    /P   [password] Specifies the password for the given user context.
                        Prompts for input if omitted.

    /TN   taskname   Specifies the path\name of the task to change.

    /RU   username   Changes the user name (user context) under which the
                        scheduled task has to run. For the system account,
                        valid values are "", "NT AUTHORITY\SYSTEM" or "SYSTEM".
                        For v2 tasks, "NT AUTHORITY\LOCALSERVICE" and
                        "NT AUTHORITY\NETWORKSERVICE" are also available as well
                        as the well known SIDs for all three.
    /RP   password   Specifies a new password for the existing user
                        context or the password for a new user account.
                        This password is ignored for the system account.

    /TR   taskrun   Specifies the new program that the
                        scheduled task will run.

    /ST   starttime   Specifies the start time to run the task. The time
                        format is HH:mm (24 hour time) for example, 14:30
                        for 2:30 PM.

    /RI   interval   Specifies the repetition interval in
                        minutes. Valid range: 1 - 599940 minutes.

    /ET   endtime   Specifies the end time to run the task. The time
                        format is HH:mm (24 hour time) for example, 14:50
                        for 2:50 PM.

    /DU   duration   Specifies the duration to run the task. The time
                        format is HH:mm. This is not applicable with /ET.

    /K   Terminates the task at the endtime or duration time.

/SD   startdate   Specifies the first date on which the task runs.
                 The format is dd/mm/yyyy.

/ED   enddate   Specifies the last date when the task should run.
                 The format is dd/mm/yyyy.

/IT   Enables the task to run interactively only if the
                 /RU user is currently logged on at the time the job
                 runs. This task runs only if the user is logged in.

/RL   level   Sets the Run Level for the job. Valid values are
                 LIMITED and HIGHEST. The default is to not change it.

/ENABLE   Enables the scheduled task.

/DISABLE   Disables the scheduled task.

/Z   Marks the task for deletion after its final run.

/DELAY   delaytime   Specifies the wait time to delay the running of the
                 task after the trigger is fired. The time format is
                 mmmm:ss. This option is only valid for schedule types
                 ONSTART, ONLOGON, ONEVENT.

/HRESULT   For better diagnosability, the process exit code
                 will be in the HRESULT format.

/?   Displays this help message.

Examples:
  SCHTASKS /Change /RP password /TN "\Backup\Backup and Restore"
  SCHTASKS /Change /TR restore.exe /TN "\Backup\Start Restore"
  SCHTASKS /Change /S system /U user /P password /RU newuser
     /TN "\Backup\Start Backup" /IT

C:\Users\user\Desktop>schtasks /Change /st 21:35:00 /tn 18BCN7076_Task1
Please enter the run as password for user: ***

ERROR: The user name or password is incorrect.

C:\Users\user\Desktop>schtasks /Change /st 21:35:00 /tn 18BCN7076_Task1
Please enter the run as password for user: ********

ERROR: The user name or password is incorrect.

C:\Users\user\Desktop>schtasks /Change /st 21:35:00 /tn 18BCN7076_Task1
Please enter the run as password for user:

WARNING: When the run-as password is empty, the scheduled task may not run because of the security policy.
SUCCESS: The parameters of scheduled task "18BCN7076_Task1" have been changed.

C:\Users\user\Desktop>schtasks /create /TN 18BCN7076_Task1 /st 17:09:00 /d MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY /sc WEEKLY /tr notepad.exe
ERROR: Invalid argument/option - 'TUESDAY'.
Type "SCHTASKS /CREATE /?" for usage.

C:\Users\user\Desktop>schtasks /create /TN 18BCN7076_Task1 /st 17:09:00 /d SAT,SUN /sc WEEKLY /tr notepad.exe
WARNING: The task name "18BCN7076_Task1" already exists. Do you want to replace it (Y/N)? y
SUCCESS: The scheduled task "18BCN7076_Task1" has successfully been created.

C:\Users\user\Desktop>schtasks /delete /tn 18BCN7076_Task1
WARNING: Are you sure you want to remove the task "18BCN7076_Task1" (Y/N)? y
SUCCESS: The scheduled task "18BCN7076_Task1" was successfully deleted.

C:\Users\user\Desktop>

C:\Users\user\Desktop>

C:\Users\user\Desktop>

C:\Users\user\Desktop>

C:\Users\user\Desktop>