

Secure Coding Lab-3

Name : Rushik kumar Avula

Reg.No : 18BCN7008

Microsoft Windows [Version 10.0.19042.804]

(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\Rushik kumar Avula>schtasks

Folder: \

TaskName	Next Run Time	Status
Adobe Acrobat Update Task	18-02-2021 16:00:00	Ready
HPAudioSwitch	N/A	Ready
HPJumpStartLaunch	N/A	Ready
Kaspersky_Upgrade_Launcher_{278ADC42-419	N/A	Ready
kpm_tray.exe	N/A	Ready
NvBatteryBoostCheckOnLogon_{B2FE1952-018	N/A	Ready
NvDriverUpdateCheckDaily_{B2FE1952-0186-	18-02-2021 12:25:37	Ready
NVIDIA GeForce Experience SelfUpdate_{B2	N/A	Ready
NvNodeLauncher_{B2FE1952-0186-46C3-BAEC-	N/A	Ready
NvProfileUpdaterDaily_{B2FE1952-0186-46C	18-02-2021 12:25:30	Ready
NvProfileUpdaterOnLogon_{B2FE1952-0186-4	N/A	Ready
NvTmRep_CrashReport1_{B2FE1952-0186-46C3	18-02-2021 12:25:37	Ready
NvTmRep_CrashReport2_{B2FE1952-0186-46C3	17-02-2021 18:25:37	Ready
NvTmRep_CrashReport3_{B2FE1952-0186-46C3	18-02-2021 0:25:37	Ready
NvTmRep_CrashReport4_{B2FE1952-0186-46C3	18-02-2021 6:25:37	Ready
OneDrive Standalone Update Task-S-1-5-21	18-02-2021 1:22:41	Ready
RtkAudUService64_BG	N/A	Running

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
WarrantyChecker	07-05-2022 12:10:21	Ready
WarrantyChecker_DeviceScan	21-02-2021 19:07:34	Ready

Folder: \HP

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

Folder: \Microsoft

TaskName	Next Run Time	Status
----------	---------------	--------

=====

INFO: There are no scheduled tasks presently available at your access level.

^c

C:\Users\Rushik kumar Avula>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\Rushik kumar Avula>schtasks /create 18BCN7008_Task1

ERROR: Invalid argument/option - '18BCN7008_Task1'.

Type "SCHTASKS /CREATE /?" for usage.

C:\Users\Rushik kumar Avula>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\Rushik kumar Avula>cd Desktop/
```

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /create /TN 18BCN7008_Task1 /st 16:55:00 /sc  
ONCE /tr notepad.exe
```

WARNING: Task may not run because /ST is earlier than current time.

WARNING: The task name "18BCN7008_Task1" already exists. Do you want to replace it (Y/N)? N

INFO: Operation has been cancelled.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /create /TN 18BCN7008_Task1 /st 16:58:00 /sc  
ONCE /tr notepad.exe
```

WARNING: The task name "18BCN7008_Task1" already exists. Do you want to replace it (Y/N)? Y

SUCCESS: The scheduled task "18BCN7008_Task1" has successfully been created.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /create /TN 18BCN7008_Task1 /st 17:09:00 /sc  
ONCE /tr notepad.exe
```

WARNING: The task name "18BCN7008_Task1" already exists. Do you want to replace it (Y/N)? Y

SUCCESS: The scheduled task "18BCN7008_Task1" has successfully been created.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /Change /st 17:01:00
```

ERROR: Invalid syntax. Mandatory option '/tn' is missing.

Type "SCHTASKS /CHANGE /?" for usage.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /Change /st 17:02:00 /tn 18BCN7008_Task1
```

Please enter the run as password for Rushik kumar Avula:

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 "18BCN7008_Task1" have been changed.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /create /TN 18BCN7008_Task1 /st 17:09:00 /sc  
ONCE /tr notepad.exe
```

WARNING: The task name "18BCN7008_Task1" already exists. Do you want to replace it (Y/N)? Y

SUCCESS: The scheduled task "18BCN7008_Task1" has successfully been created.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /Change /st 17:04:00 /tn 18BCN7008_Task1
```

Please enter the run as password for Rushik kumar Avula:

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 "18BCN7008_Task1" have been changed.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /create /TN 18BCN7008_Task1 /st 17:09:00 /sc ONCE /tr notepad.exe
```

WARNING: The task name "18BCN7008_Task1" already exists. Do you want to replace it (Y/N)? Y

SUCCESS: The scheduled task "18BCN7008_Task1" has successfully been created.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /delete /tn 18BCN7008_Task1
```

WARNING: Are you sure you want to remove the task "18BCN7008_Task1" (Y/N)? Y

SUCCESS: The scheduled task "18BCN7008_Task1" was successfully deleted.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /create /TN 18BCN7008_Task1 /st 17:09:00 /d MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY /sc WEEKLY /tr notepad.exe
```

ERROR: Invalid argument/option - 'TUESDAY'.

Type "SCHEDTASKS /CREATE /?" for usage.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /create /TN 18BCN7008_Task1 /st 17:09:00 /d MON TUE WED THU FRI /sc WEEKLY /tr notepad.exe
```

ERROR: Invalid argument/option - 'TUE'.

Type "SCHEDTASKS /CREATE /?" for usage.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /create /TN 18BCN7008_Task1 /st 17:09:00 /d MON,TUE,WED,THU,FRI /sc WEEKLY /tr notepad.exe
```

SUCCESS: The scheduled task "18BCN7008_Task1" has successfully been created.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /create /TN 18BCN7008_Task1 /st 17:09:00 /d SAT,SUN /sc WEEKLY /tr notepad.exe
```

WARNING: The task name "18BCN7008_Task1" already exists. Do you want to replace it (Y/N)? y

SUCCESS: The scheduled task "18BCN7008_Task1" has successfully been created.

```
C:\Users\Rushik kumar Avula\Desktop>schtasks /delete /tn 18BCN7008_Task1
```

WARNING: Are you sure you want to remove the task "18BCN7008_Task1" (Y/N)? Y

SUCCESS: The scheduled task "18BCN7008_Task1" was successfully deleted.