

Secure Coding Lab - 3

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1) where

```
C:\Users\allak>where
The syntax of this command is:

WHERE [/R dir] [/Q] [/F] [/T] pattern...

Description:
  Displays the location of files that match the search pattern.
  By default, the search is done along the current directory and
  in the paths specified by the PATH environment variable.

Parameter List:
  /R      Recursively searches and displays the files that match the
          given pattern starting from the specified directory.

  /Q      Returns only the exit code, without displaying the list
          of matched files. (Quiet mode)

  /F      Displays the matched filename in double quotes.

  /T      Displays the file size, last modified date and time for all
          matched files.

  pattern Specifies the search pattern for the files to match.
          Wildcards * and ? can be used in the pattern. The
          "$env:pattern" and "path:pattern" formats can also be
          specified, where "env" is an environment variable and
          the search is done in the specified paths of the "env"
          environment variable. These formats should not be used
          with /R. The search is also done by appending the
          extensions of the PATHEXT variable to the pattern.

  /?      Displays this help message.

NOTE: The tool returns an error level of 0 if the search is
      successful, of 1 if the search is unsuccessful and
      of 2 for failures or errors.

Examples:
  WHERE /?
  WHERE myfilename1 myfile????.*
  WHERE $windir:*.
  WHERE /R c:\windows *.exe *.dll *.bat
  WHERE /Q ???.???
  WHERE "c:\windows;c:\windows\system32:*.dll"
  WHERE /F /T *.dll
```

```
C:\Users\allak>where /R c:\ Windows
c:\Users\allak\AppData\Roaming\discord\0.0.309\modules\discord_utils\node_modules\isexe\windows.js
c:\Users\allak\AppData\Roaming\discord\0.0.309\modules\discord_voice\node_modules\isexe\windows.js
C:\Users\allak>
```

2) Diskpart

Command Prompt - diskpart

Microsoft Windows [Version 10.0.19042.804]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\allak>diskpart

C:\windows\system32\diskpart.exe

Copyright (C) Microsoft Corporation.
On computer: LAPTOP-M096SVVG

DISKPART> list disk

Disk ###	Status	Size	Free	Dyn	Gpt
Disk 0	Online	119 GB	6144 KB		*
Disk 1	Online	931 GB	1024 KB		*

DISKPART> select disk 0

Microsoft DiskPart version 10.0.19041.610

DISK - Shift the focus to a disk. For example, SELECT DISK.
PARTITION - Shift the focus to a partition. For example, SELECT PARTITION.
VOLUME - Shift the focus to a volume. For example, SELECT VOLUME.
VDISK - Shift the focus to a virtual disk. For example, SELECT VDISK.

DISKPART> select disk 0

Disk 0 is now the selected disk.

DISKPART> list partition

Partition ###	Type	Size	Offset
Partition 1	System	260 MB	1024 KB
Partition 2	Reserved	16 MB	261 MB
Partition 3	Primary	118 GB	277 MB

3)File replication

Experiment - File Replication.

- Assume your computer got infected with some virus.
- Virus exhibits the property of replication with the same file name.
 - For example. File1 is replicated as File1(1) -> Initial infection
 - File1(2) -> Second infection, likewise it replicates File1 for 50 times.
- Now, How will you find all the replicated files.
- Task to experiment: Use the cmd prompt to identify and locate the files and delete the same.

```
C:\Users\allak>where /R c:\ moo1*
c:\Users\allak\Desktop\dummy folder\moo1(1).txt
c:\Users\allak\Desktop\dummy folder\moo1(10).txt
c:\Users\allak\Desktop\dummy folder\moo1(11).txt
c:\Users\allak\Desktop\dummy folder\moo1(12).txt
c:\Users\allak\Desktop\dummy folder\moo1(13).txt
c:\Users\allak\Desktop\dummy folder\moo1(14).txt
c:\Users\allak\Desktop\dummy folder\moo1(15).txt
c:\Users\allak\Desktop\dummy folder\moo1(16).txt
c:\Users\allak\Desktop\dummy folder\moo1(17).txt
c:\Users\allak\Desktop\dummy folder\moo1(18).txt
c:\Users\allak\Desktop\dummy folder\moo1(19).txt
c:\Users\allak\Desktop\dummy folder\moo1(2).txt
c:\Users\allak\Desktop\dummy folder\moo1(20).txt
c:\Users\allak\Desktop\dummy folder\moo1(21).txt
c:\Users\allak\Desktop\dummy folder\moo1(22).txt
c:\Users\allak\Desktop\dummy folder\moo1(23).txt
c:\Users\allak\Desktop\dummy folder\moo1(24).txt
c:\Users\allak\Desktop\dummy folder\moo1(25).txt
c:\Users\allak\Desktop\dummy folder\moo1(26).txt
c:\Users\allak\Desktop\dummy folder\moo1(27).txt
c:\Users\allak\Desktop\dummy folder\moo1(28).txt
c:\Users\allak\Desktop\dummy folder\moo1(29).txt
c:\Users\allak\Desktop\dummy folder\moo1(3).txt
```

```
C:\Users\allak\Desktop>cd "dummy folder"

C:\Users\allak\Desktop\dummy folder>del moo*

C:\Users\allak\Desktop\dummy folder>dir
Volume in drive C is WINDOWS
Volume Serial Number is E681-94E2

Directory of C:\Users\allak\Desktop\dummy folder

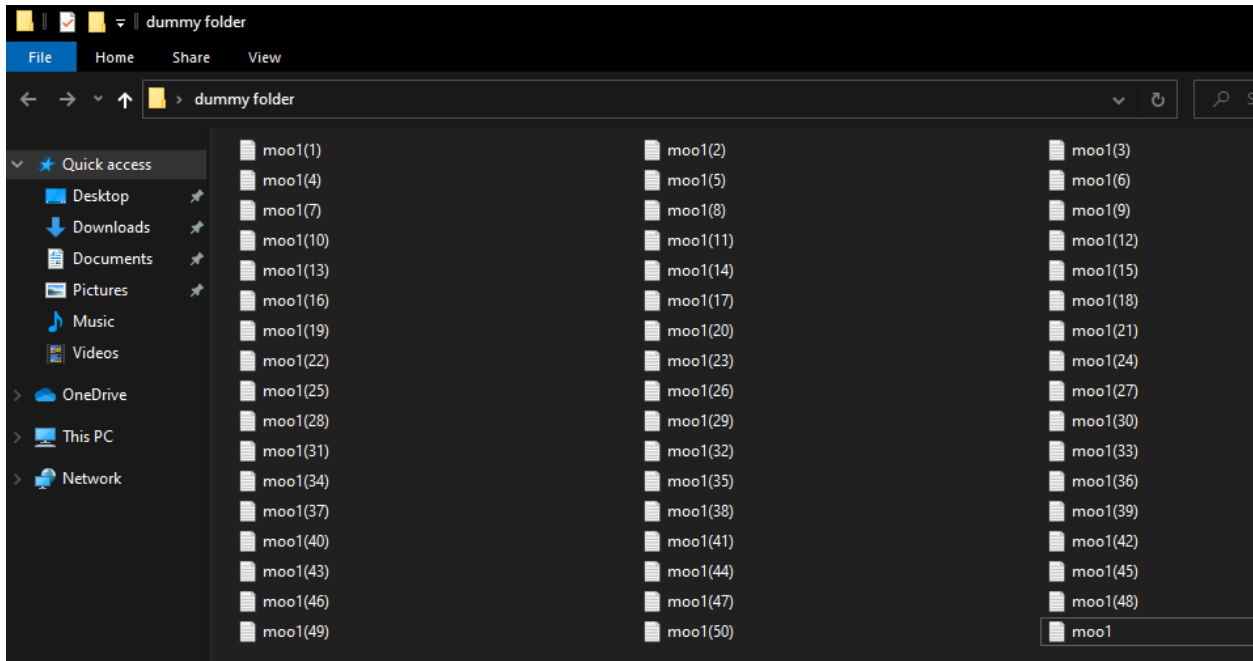
20-02-2021  19:20    <DIR>          .
20-02-2021  19:20    <DIR>          ..
               0 File(s)                0 bytes
               2 Dir(s)  71,922,450,432 bytes free

C:\Users\allak\Desktop\dummy folder>
```

4)

Classwork

- Write a file replication code to copy the same file for 50 times on the same directory.



```
import shutil

org= r'C:\Users\allak\Desktop\dummy folder\moo1.txt'

for i in range(1,51):
    target = r'C:\Users\allak\Desktop\dummy folder\moo1('+str(i)+').txt'
    shutil.copyfile(org,target)
```

5)

Process/Tasks/Jobs/

- A **process** is the **instance** of a **computer program** that is being **executed**. It contains the program code and its activity.
 - Depending on the operating system (**OS**), a **process** may be made up of multiple threads of execution that execute instructions concurrently.
- A **task** represents the execution of a single process or multiple processes on a compute node.
- A collection of **tasks** that is used to perform a computation is known as a **job**.

Basics

- Create a task name "Reg.no_Task1" to run on a specific time
- Change the time of the scheduled task
- Delete the scheduled task
- Schedule an another task to run only on Weekdays
- Schedule an another task to run only on Weekends

```
C:\WINDOWS\system32>schtasks
```

Folder: \	TaskName	Next Run Time	Status
	GoogleUpdateTaskMachineCore	21-02-2021 03:05:11	Ready
	GoogleUpdateTaskMachineUA	20-02-2021 20:05:11	Ready
	HPAudioSwitch	N/A	Running
	HPEA3JOBS	N/A	Ready
	HPJumpStartLaunch	N/A	Running
	McAfee Remediation (Prepare)	N/A	Ready
	McAfeeLogon	N/A	Running
	MicrosoftEdgeUpdateTaskMachineCore	21-02-2021 02:57:28	Ready
	MicrosoftEdgeUpdateTaskMachineCore1d6fbb	21-02-2021 01:13:01	Ready
	MicrosoftEdgeUpdateTaskMachineUA	20-02-2021 19:43:01	Ready
	npcapwatchdog	N/A	Ready
	NvBatteryBoostCheckOnLogon_{B2FE1952-0186-46C3-BAEC-1A56107C3E67}	N/A	Ready
	NvDriverUpdateCheckDaily_{B2FE1952-0186-46C3-BAEC-1A56107C3E67}	21-02-2021 12:25:35	Ready
	NVIDIA GeForce Experience SelfUpdate_{B2FE1952-0186-46C3-BAEC-1A56107C3E67}	N/A	Ready
	NvNodeLauncher_{B2FE1952-0186-46C3-BAEC-1A56107C3E67}	N/A	Ready
	NvProfileUpdaterDaily_{B2FE1952-0186-46C3-BAEC-1A56107C3E67}	21-02-2021 12:25:29	Ready
	NvProfileUpdaterOnLogon_{B2FE1952-0186-46C3-BAEC-1A56107C3E67}	N/A	Ready
	NvTmRep_CrashReport1_{B2FE1952-0186-46C3-BAEC-1A56107C3E67}	21-02-2021 12:25:35	Ready
	NvTmRep_CrashReport2_{B2FE1952-0186-46C3-BAEC-1A56107C3E67}	21-02-2021 18:25:35	Ready
	NvTmRep_CrashReport3_{B2FE1952-0186-46C3-BAEC-1A56107C3E67}	21-02-2021 00:25:35	Ready
	NvTmRep_CrashReport4_{B2FE1952-0186-46C3-BAEC-1A56107C3E67}	21-02-2021 06:25:35	Ready
	OneDrive Standalone Update Task v2	21-02-2021 15:10:58	Ready
	OneDrive Standalone Update Task-S-1-5-21	21-02-2021 00:40:23	Ready

```
Folder: \Agent Activation Runtime
```

Creating the task

```
C:\WINDOWS\system32>schtasks /create /SC DAILY /TN "Tasks\18BCN7033_Task1" /TR "C:\Windows\System32\notepad.exe" /ST 21:30
SUCCESS: The scheduled task "Tasks\18BCN7033_Task1" has successfully been created.
```

Display the task

```
Folder: \Tasks
```

TaskName	Next Run Time	Status
18BCN7033_Task1	20-02-2021 21:30:00	Ready

Update the task

```
C:\WINDOWS\system32>schtasks /CHANGE /TN "Tasks\18BCN7033_Task1" /ST 21:40
Please enter the run as password for allak: *****

SUCCESS: The parameters of scheduled task "Tasks\18BCN7033_Task1" have been changed.

C:\WINDOWS\system32>
```

Delete the task

```
C:\WINDOWS\system32>schtasks /DELETE /TN "Tasks\18BCN7033_Task1"  
WARNING: Are you sure you want to remove the task "Tasks\18BCN7033_Task1" (Y/N)? Y  
SUCCESS: The scheduled task "Tasks\18BCN7033_Task1" was successfully deleted.
```