Lab02-2_PowershellBasics SYS-320 Ben W SP24

Deliverables:

Part 1.

- 1. IPv4 from Ethernet interface
- 4 (Get-NetIPAddress -AddressFamily IPv4 | ? { \$_.InterfaceAlias -ilike "Ethernet0" }).IPAddress

 $PS C:\Windows\system 32> C:\Users\champuser\Documents\sys 320git\PowershellLabs\Lab02-2\ps_lab02-2_1.ps1\ 10.0.17.38$

2. Ipv4 PrefixLength from Ethernet interface

```
3
4 (Get-NetIPAddress -AddressFamily IPv4 | ? { $_.InterfaceAlias -ilike "Ethernet0" }).PrefixLength
```

PS C:\Windows\system32> C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab02-2\ps_lab02-2_1.ps1 24

3. Classes of Win32 library that start with net

4 Get-WmiObject -list | ? { \$_.Name -ilike "Win32_Net*" }

```
PS C:\Windows\system32> C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab02-2\ps_lab02-2_3.ps1

NameSpace: ROOT\cimv2

Name Methods Properties
```

4. Above, sorted alphabetically

```
4 Get-WmiObject -list | ? { $_.Name -ilike "Win32_Net*" } | Sort-Object
```

5. DHCP server IP

```
4 Get-CimInstance -ClassName Win32_NetworkAdapterConfiguration -Filter "DHCPEnabled=$true" | Select DHCPServer
```

6. Hide table headers

```
4 Get-CimInstance -ClassName Win32_NetworkAdapterConfiguration -Filter "DHCPEnabled=Strue" | Select DHCPServer | Format-Table -hideTableHeaders
```

```
P5 C:\Windows\system32> C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab02-2\ps_lab02-2_5-6.ps1

10.0.17.2
```

- 7. DNS Server IPs for Ethernet interface, only first one displayed
- 4 (Get-DNSClientServerAddress -AddressFamily IPv4 | ? { \$_.InterfaceAlias -ilike "Ethernet0" }).ServerAddresses[0]

```
 PS C:\Windows\system 32> C:\Users\champuser\Documents\sys 320git\PowershellLabs\Lab02-2\ps\_lab02-2\_7.ps 110.0.17.2
```

Part 2.

8. List all files in working directory

```
PS C:\Users\champuser\Documents\sys320git\Powers
ps_lab02-2_1.ps1
ps_lab02-2_2.ps1
ps_lab02-2_3-4.ps1
ps_lab02-2_5-6.ps1
ps_lab02-2_7.ps1
ps_lab02-2_8.ps1
```

9. Create folder called "outfolder"

```
5
6 $folderpath="$PSScriptRoot\outfolder"
7 ⊡if (Test-Path $folderpath) {
8 | echo "Folder Already Exists"
9 ⊡} else {
10 | New-Item -ItemType Directory -Path $folderpath
```

Directory: C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab02-2

```
        Mode
        LastWriteTime
        Length
        Name

        ----
        -----
        -----
        outfolder
```

PS C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab02-2> C:\Users\champuser\Documents\sys320git\Powershell\tab02-2> C:\Users\champuser\Documents\sys320git\Powershel

PS C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab02-2>

```
10. List all files in working directory
  4
      cd $PSScriptRoot
      $files=(ls -File)
  5
  6
      $folderpath="$PSScriptRoot\outfolder"
     $filepath= Join-Path $folderpath "out.csv"
  8
  9
 10 $files | ? { $_.Extension -eq ".ps1" } | Export-Csv -Path $filepath
rs c:\users\cnampuser\bucuments\sysszugit\ruwersneiitabs\Labuz-z> c:\users\cnampuser\buc
PS C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab02-2> ls .\outfolder
    Directory: C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab02-2\outfolder
Mode
                    LastWriteTime
                                           Length Name
              1/26/2024 6:35 PM
                                             9521 out.csv
-a---
   11. Do operations recursively without changing the directory. Find every .csv and change
      them to .log then display
       cd $PSScriptRoot
       $files=(ls -recurse -File)
       $files | Rename-Item -newname { $_.name -replace ".csv", ".log" }
   7
      Is -file -Recurse
   8
     Directory: C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab02-2
 Mode
                     LastWriteTime
                                            Length Name
                                              138 .ps1
236 ps_lab02-2_10.ps1
               1/26/2024 11:42 AM
                           6:35 PM
               1/26/2024
 -a----
               1/26/2024
                          11:43 AM
                                              141 ps_lab02-2_2.ps1
                                              114 ps_lab02-2_3-4.ps1
               1/26/2024
                          11:52 AM
                                              186 ps_lab02-2_5-6.ps1
 -a----
               1/26/2024
                          12:12 PM
               1/26/2024 12:18 PM
1/26/2024 12:40 PM
                                               157 ps_lab02-2_7.ps1
                                              205 ps_lab02-2_8.ps1
 -a---
 -a----
               1/26/2024
                           6:17 PM
                                               231 ps_lab02-2_9.ps1
     Directory: C:\Users\champuser\Documents\sys320git\PowershellLabs\Lab02-2\outfolder
 Mode
                     LastWriteTime
                                            Length Name
               1/26/2024 6:35 PM
                                              9521 out.log
 -a----
```

12. https://github.com/benjamin-weatherill/SYS-320/tree/main/PowershellLabs/Lab02-2