# Practical - 2

Windows Sysinternals is a website that offers technical resources and utilities to manage, diagnose, troubleshoot, and monitor a Microsoft Windows environment. Originally, the Sysinternals website was created in 1996 and was operated by the company Winternals Software LP, which was located in Austin, Texas. It was started by software developers Bryce Cogswell and Mark Russinovich. On July 18, 2006, Microsoft Corporation acquired the company and its assets. Russinovich explained that Sysinternals will remain active until Microsoft agrees on a method of distributing the tools provided there. So it provides multiple tools which help to better analyse and test the current health of network, device, application and services. Different tools are provided to get different kinds of such information. If any suspicious activity is encountered in those tools, then the sample can be submitted to the scanning sites to get the details of the same. So as a network administrator, specify 3 such tools in each category (i.e network, process, files etc.) which you think is essential for your network and device maintenance. And which can be used for troubleshooting later. Mention the details about those tools and why it is important to use in your organization. Mention the additional features that are supported by those tools.

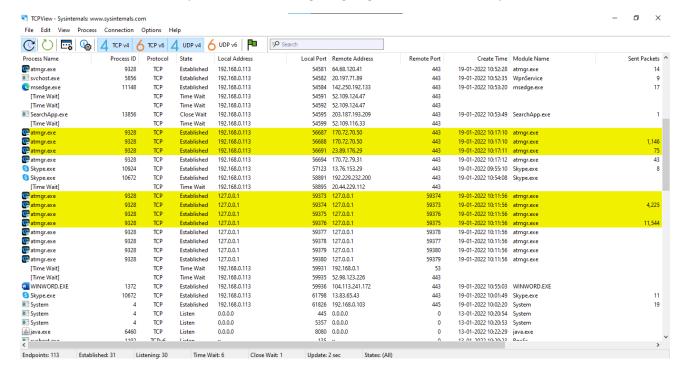
Website: <u>live.sysinternals.com</u>

#### **Network:**

#### 1. TCPView.exe

This tool gives us the information of all the current connections with their port number, service name, address and type (TCP/ UDP).

We can use this tool to easily monitor and manage ongoing connections of our system.



## 2. Psping.exe

This tool helps us in checking the ports and services of other devices by sending packets and pinging them. It also gives us different pinging options and option to check latency and bandwith.

```
EXICOMMAND PROMPTS

D:\Software New\SysUtils>psping -b 8.8.8.8
'psping' is not recognized as an internal or external command, operable program or batch file.

D:\Software New\SysUtils>psping.exe -b 8.8.8.8
'psping.exe' is not recognized as an internal or external command, operable program or batch file.

D:\Software New\SysUtils>psping.exe -b 8.8.8.8
'psping.exe' is not recognized as an internal or external command, operable program or batch file.

D:\Software New\SysUtils>psping64 -b 8.8.8.8

Psping v2.10 - Psping - ping, latency, bandwidth measurement utility Copyright (C) 2012-2016 Mark Russinovich
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Pinging 8.8.8.8 with 32 bytes of data:
S iterations (warmup 1) ping test:
Reply from 8.8.8.8: 18.84ms
Reply from 8.8.8.8: 18.84ms
Reply from 8.8.8.8: 18.65ms
Reply from 8.8.8.8: 18.15ms

Ping statistics for 8.8.8.8:
Sent = 4, Received = 4, Lost = 0 (0% loss),
Minimum = 18.13ms, Maximum = 18.84ms, Average = 18.59ms
```

```
D:\Software New\SysUtils>psping64.exe -t ford.com

Psping v2.10 - Psping - ping, latency, bandwidth measurement utility
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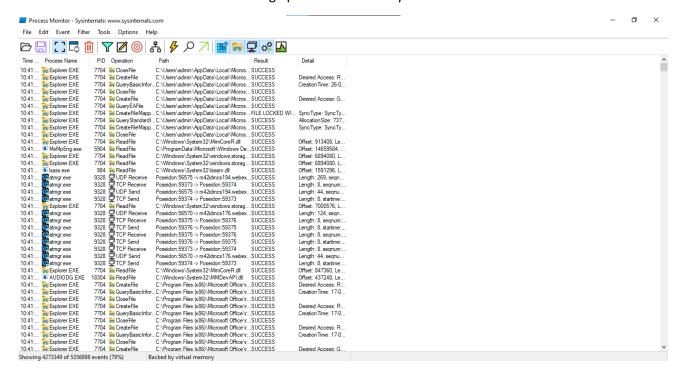
Pinging 19.12.113.37 with 32 bytes of data:
Infinite iterations (warmup 1) ping test:
Reply from 19.12.113.37: 220.10ms
Reply from 19.12.113.37: 220.210ms
Reply from 19.12.113.37: 219.95ms
Reply from 19.12.113.37: 219.35ms
Reply from 19.12.113.37: 217.33ms
Reply from 19.12.113.37: 217.66ms
Reply from 19.12.113.37: 217.66ms
Reply from 19.12.113.37: 217.66ms
Reply from 19.12.113.37: 217.46ms
Reply from 19.12.113.37: 217.46ms
Reply from 19.12.113.37: 217.56ms
Reply from 19.12.113.37: 21
```

#### **Process:**

#### 1. ProcMon.exe

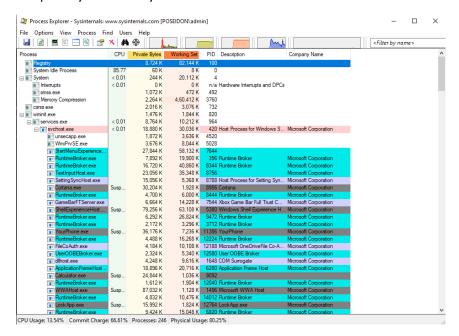
This tool gives us the information of all the current running processes in our system. It also has options to give further details of processes like PID, TID Architecture, etc.

We can use this tool to monitor and manage processes on our system.



## 2. Procexp64.exe

This tool helps us displaying and managing all the running processes and subprocesses and set properties like priority and affinity.



## **Security:**

#### 1. Psloglist.exe

This tool helps us display all the system logs which contains the events performed by the user. It helps us in identifying any suspicious activity.

```
| Stock | Stoc
```

# 2. Psloggedon.exe

This tool shows the currently logged in users, and whether they are locally or remotely.

```
D:\Software New\SysUtils>PsLoggedon64.exe

PsLoggedon v1.35 - See who's logged on
Copyright (C) 2000-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

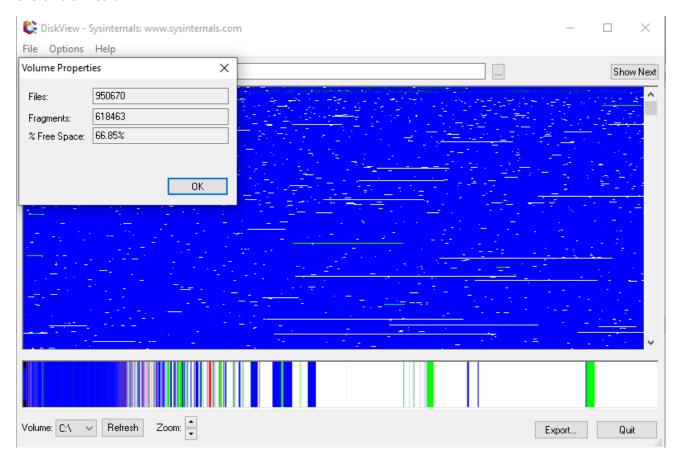
Users logged on locally:
13-01-2022 10:27:13 POSEIDON\admin

No one is logged on via resource shares.
```

## Files:

## 1. <u>Diskview.exe</u>

This tool helps us scan our system volumes and displays information like files, fragments, free space and overall disk health.



## 2. Vmmap.exe (Memory)

This tool gives us a detailed information on memory usage of each application.

