

### 3.0.3 Class Activity - Identify Running Processes (Instructor Version)

**Instructor Note:** Red font color or gray highlights indicate text that appears in the instructor copy only.

#### Objectives

In this lab, you will use TCP/UDP Endpoint Viewer, a tool in Sysinternals Suite, to identify any running processes on your computer.

**Part 1: Download Windows Sysinternals Suite.**

**Part 2: Start TCP/UDP Endpoint Viewer.**

**Part 3: Explore the running processes.**

**Part 4: Explore a user-started process.**

#### Background / Scenario

In this lab, you will explore processes. Processes are programs or applications in execution. You will explore the processes using Process Explorer in the Windows Sysinternals Suite. You will also start and observe a new process.

#### Required Resources

- 1 Windows PC with internet access

#### Instructions

##### Part 1: Download Windows Sysinternals Suite.

- Navigate to the following link to download Windows Sysinternals Suite:  
<https://technet.microsoft.com/en-us/sysinternals/bb842062.aspx>
- After the download is completed, right+click the zip file, and choose **Extract All...**, to extract the files from the folder. Choose the default name and destination in the Downloads folder and click **Extract**.
- Exit the web browser.

##### Part 2: Start TCP/UDP Endpoint Viewer.

- Navigate to the SysinternalsSuite folder with all the extracted files.
- Open **Tcpview.exe**. Accept the Process Explorer License Agreement when prompted. Click **Yes** to allow this app to make changes to your device.
- Exit the File Explorer and close all the currently running applications.

##### Part 3: Explore the running processes.

- TCPView lists the process that are currently on your Windows PC. At this time, only Windows processes are running.
- Double-click **lsass.exe**.  
What is lsass.exe? In what folder is it located?

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**Local Security Authority Process is the name for lsass.exe. It is located in C:\Windows\System32 folder.**

- Close the properties window for lsass.exe when done.
- View the properties for the other running processes.

**Note:** Not all processes can be queried for properties information.

### Part 4: Explore a user-started process.

- Open a web browser, such as Microsoft Edge.  
What did you observe in the TCPView window?

**The processes for the web browser are added to the TCPView window.**

Process	PID	Protocol	Local Address	Local Port	Remote Address	Remote Port	State
lsass.exe	552	TCP	DESKTOP-NDFE...	49669	DESKTOP-NDFE...	0	LISTENING
lsass.exe	552	TCPV6	desktop-ndfe14h	49669	desktop-ndfe14h	0	LISTENING
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50337	a-0003.a-msedge...	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50338	131.253.14.192	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50339	a-0001.a-msedge...	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50340	40.118.160.210	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50341	cox-66-210-41-10...	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50342	a23-56-220-218.d...	https	ESTABLISHED
services.exe	544	TCP	DESKTOP-NDFE...	49668	DESKTOP-NDFE...	0	LISTENING
services.exe	544	TCPV6	desktop-ndfe14h	49668	desktop-ndfe14h	0	LISTENING

Endpoints: 52    Established: 7    Listening: 18    Time Wait: 0    Close Wait: 6

- Close the web browser.  
What did you observe in the TCPView window?

**The processes for the web browser will be removed from the TCPView window.**

Process	PID	Protocol	Local Address	Local Port	Remote Address	Remote Port	State
lsass.exe	552	TCP	DESKTOP-NDFE...	49669	DESKTOP-NDFE...	0	LISTENING
lsass.exe	552	TCPV6	desktop-ndfe14h	49669	desktop-ndfe14h	0	LISTENING
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50337	a-0003.a-msedge...	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50338	131.253.14.192	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50339	a-0001.a-msedge...	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50340	40.118.160.210	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50341	cox-66-210-41-10...	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50342	a23-56-220-218.d...	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50343	a-0003.a-msedge...	https	ESTABLISHED
MicrosoftEdgeCP.exe	5596	TCP	desktop-ndfe14h	50344	13.107.21.200	https	ESTABLISHED

Endpoints: 65    Established: 20    Listening: 18    Time Wait: 0    Close Wait: 6

- Reopen the web browser. Research some of the processes listed in TCPView. Record your findings.

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Answers will vary. The process lsass.exe verifies the validity of user logins to the PC. The services.exe is used to start and stop services and change the default services startup settings. The process svchost.exe (Service Host) handles the process of sharing system resources. Most of these listed resources are located in the C:\Windows\System32\ folder. If these executables are found elsewhere in the system, they maybe malware, such as viruses, spyware, trojans or worms.