Class Activity - What's Going On?

# Objectives

Identify the processes running on a computer, the protocol they are using, and their local and remote port addresses.

Part 1: Download and install the TCPView software.

Part 2: Answer the following questions.

Part 3: Use a browser and observe the TCPView window.

# Background / Scenario

For a hacker to establish a connection to a remote computer, a port must be listening on that device. This may be due to infection by malware, or a vulnerability in a legitimate piece of software. A utility, such as TCPView, can be used to detect open ports, monitor them in real-time, and close active ports and processes using them.

# Required Resources

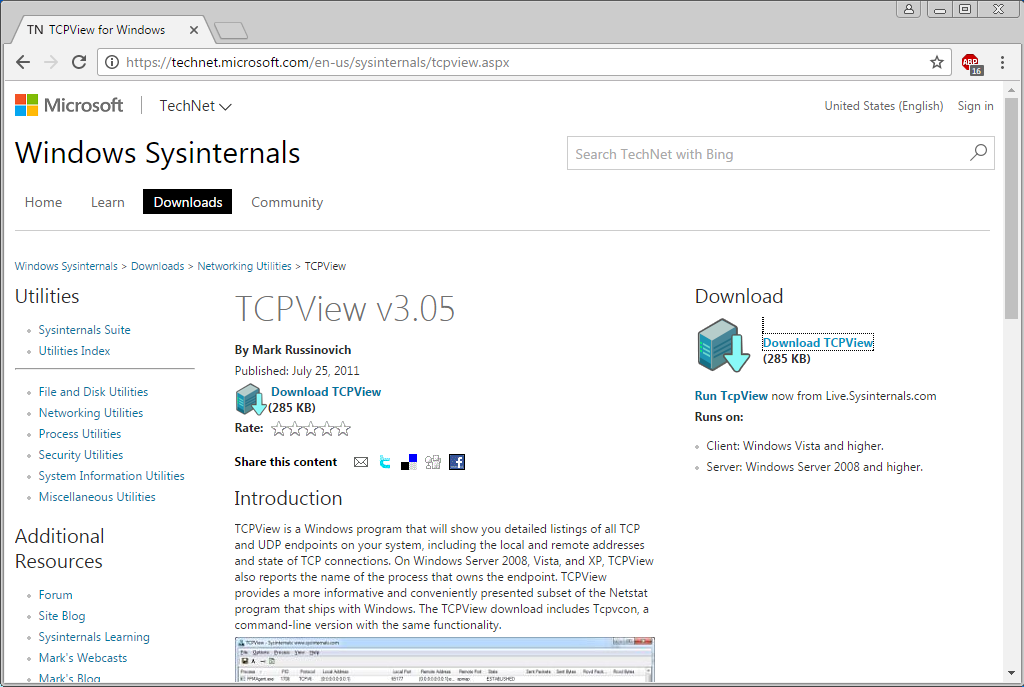
* PC with Internet access
* TCPView software

# Instructions

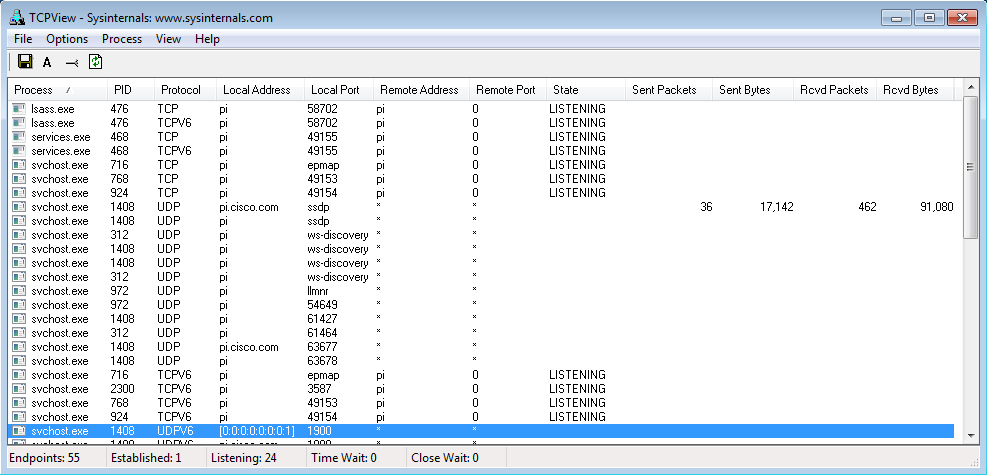
## Download and install the TCPView software.

* + 1. Click the link below to reach the download page for TCPView.

<http://technet.microsoft.com/en-us/sysinternals/tcpview.aspx>



* + 1. Create a folder on the desktop named **TCPView**.
    2. Extract the contents of the zip to this new folder.
    3. Start the Tcpview Application.
    4. Finally, Agree to the software license terms.



## Answer the following questions.

### Questions:

* + 1. How many Endpoints are listed?

Type your answers here.

* + 1. How many are Listening?

Type your answers here.

* + 1. How many Endpoints are Established?

Type your answers here.

## Use a browser and observe the TCPView window.

* + 1. Open the Options menu and click “Always on Top”.

**Note**: Use the Help section of the program to help you answer the following questions.

* + 1. Open any browser.

### Question:

What happens in the TCPView window?

Type your answers here.

* + 1. Browse to cisco.com.

### Question:

What happens in the TCPView window?

Type your answers here.

* + 1. Close the browser.

### Questions:

What happens in the TCPView window?

Type your answers here.

What do you think the colors mean?

Type your answers here.

**Note**: To close a process directly, right-click the process and choose **End Process**. Using this method can cause a program or the operating system to become unstable. Only end processes that you know are safe to end. This method can be used to stop malware from communicating.

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