

ISEC 2077 Security Auditing
Assignment 2 – Netflow Collector Part 1 (In-Class)
(Large Assignment)

Issued Date: September 16, 2025

Due date: September 26, 2025 (In-class demonstration)

Preamble

Note: This assignment has two parts. Part 1 may be done as a team of two. Part 2 will involve individual work.

Objective: The purpose of this assignment is to demonstrate the collection and logging of Netflow records. Now that you have configured your router to capture and export Netflow, your next task is to send those records to a collector so that you can examine the traffic in your network

Requirements

You will need:

1. The router you configured in assignment 1;
2. Two computers at your pod, one of which will have a bridged VM;
3. A copy of Manage Engine Netflow Analyzer flow collector software on the bridged VM on one of your two machines. You may download a free 30-day trial edition of this software from the Netflow Analyzer website. <https://www.manageengine.com/products/netflow/>

Step 1: Cable your computers to the switch and then to the router to create a separate private 192 network. You may use static IP's for your computers, the bridged VM and the router interface. **(4 points)**

Step 2: Create (New) separate monitors for both In and Out traffic on your router interface. Make the Monitors collect netflow version 5. **(3 points)**

Step 3: Modify the Exporter on your router to send traffic from both new Monitors to the Netflow collector (NetFlow Analyzer). Do not send traffic from your original monitor anywhere. **(2 points)**

Step 4: Collect any traffic you can (it won't be much) and display this traffic in Netflow Analyzer **(1 point)**

Step 4: Show your configuration and the captured flows to your instructor to receive credit for this assignment.

Rubric

Part 1 of this assignment is worth 10% (a total of 10 points). Part 2 will also be worth 10% bringing the total value of this assignment to 20% of your final mark and will be evaluated based on in-class demonstration to your instructor and an individual comprehension test.