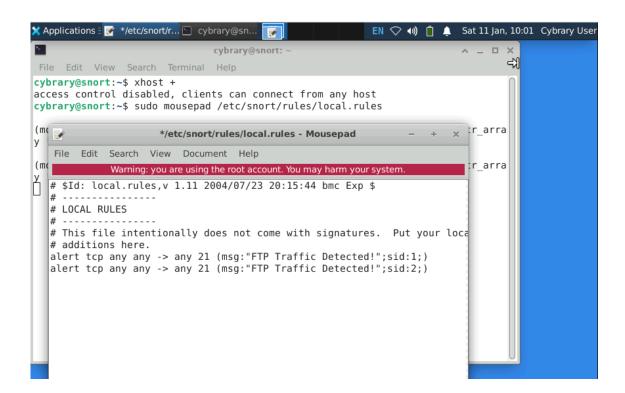
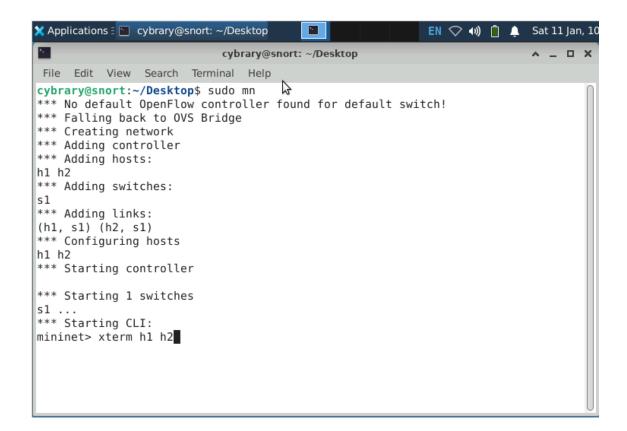
CodeAlpha Task 2

Step 2: Writing Snort Rules. In this step, custom rules are defined in the 'local.rules' file.

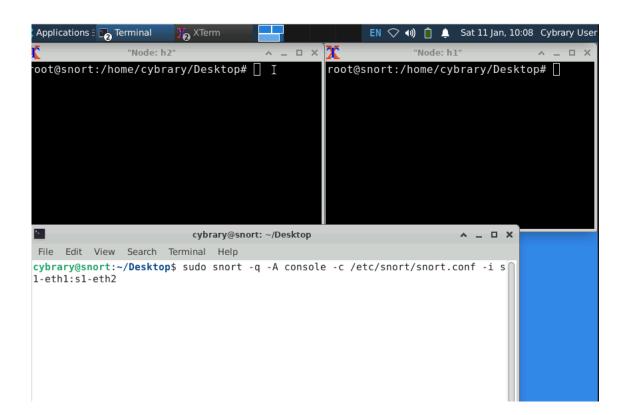
These rules are configured to detect FTP traffic on port 21 and log the events.



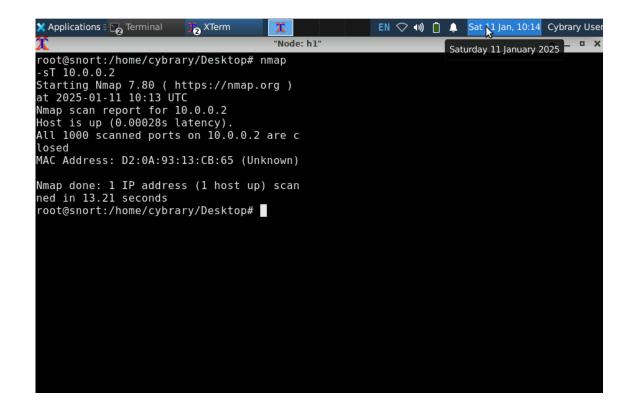
Step 1: Setting up Mininet. This step shows the creation of a virtual network using the Mininet CLI. Hosts (h1, h2) and a switch (s1) are added to establish the testing environment.



Step 3: Starting Snort. Snort is launched in IDS mode using the appropriate configuration file. It monitors traffic on the specified network interface for rule violations.



Step 4: Conducting an Nmap Scan. An Nmap scan is performed on the target host (10.0.0.2). This generates network traffic that will trigger Snort rules if matched.



Step 5: Detecting FTP Traffic. Snort successfully detects FTP traffic as defined in the rules. The alert is displayed in the console, confirming that the setup is working correctly.

