

HIDS(Host Intrusion Detection System)

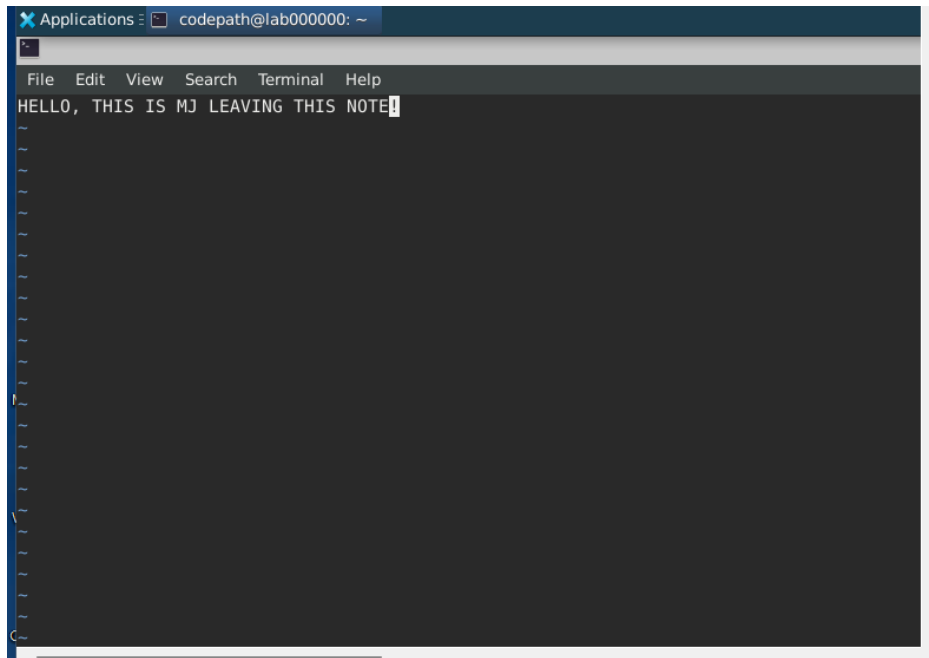
AUDITS

Summary

In a past project, I implemented a HIDS (Host Intrusion Detection System) known as HIDS Audit on a host device. The objective was to monitor the device for suspicious activities without the necessity of creating a predefined ruleset for detection. Utilizing the Linux Auditing System located in /var/log, I successfully configured the HIDS to provide a detailed log of security events, enabling effective file monitoring and enhancing overall security measures

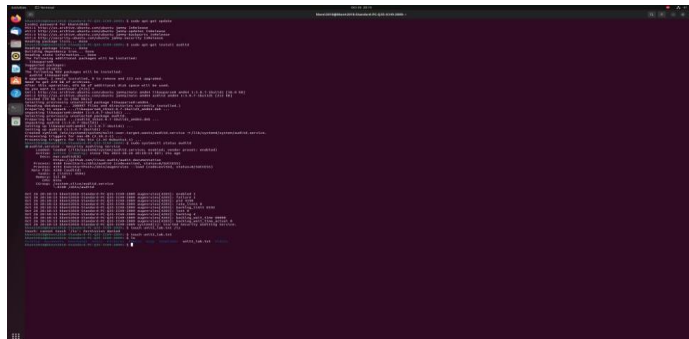
To kick off the process, I started by ensuring that all our packages were up to date with the command `sudo apt-get update`. Following that, in Step 0, we proceeded to install Audit by executing `sudo apt-get install auditd`. I was then prompted a output verifying that Audit was up and running as intended, laying the groundwork for subsequent security measures.

Vim, a built-in Linux text editor, proved essential in our course. It has two modes: command and insert. We switched to insert mode ('i') to edit files and seamlessly transitioned back to command mode ('Esc'). In insert mode, similar to other editors, we typed a message like "HELLO, THIS IS MJ LEAVING THIS NOTE!"

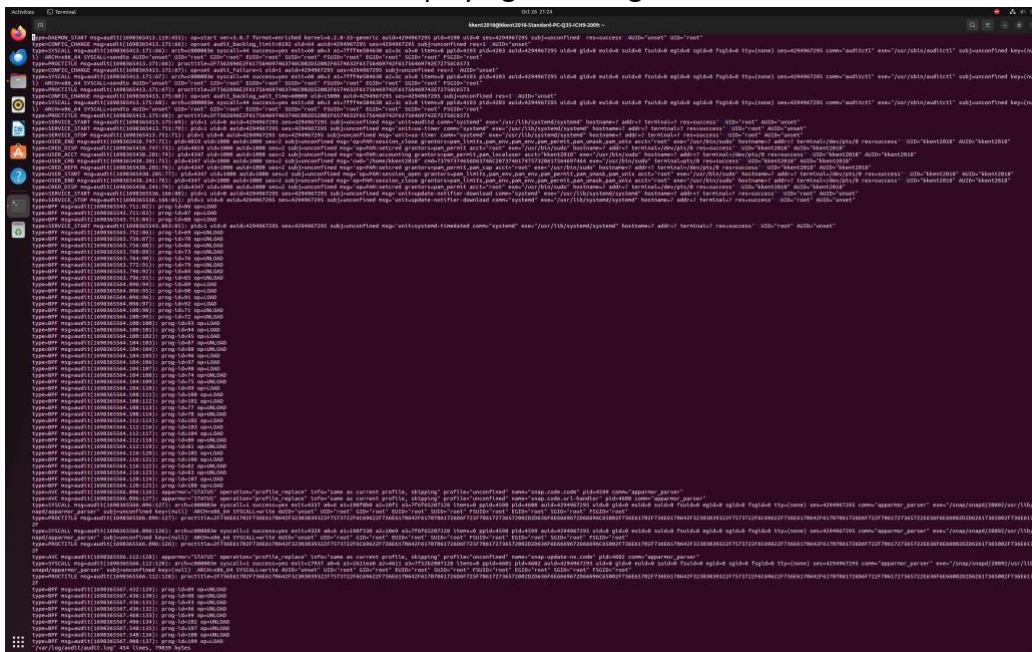


Step 2

To initiate file monitoring, we first generated a new file named `unit2_lab.txt` in the `~` directory using the command `touch unit2_lab.txt`. A quick verification via `ls` confirmed the file's existence in the current directory, setting the stage for subsequent content additions.



Displaying event logs



POST Incident / Takeaways

Reflecting on the HIDS Audit project, I learned crucial lessons about proactive host intrusion detection. Keeping system packages updated with `sudo apt-get update` ensured a secure foundation. Installing Audit with `sudo apt-get install auditd` and verifying its operation set the stage for dynamic file monitoring without predefined rulesets.

Vim's role in editing configuration files emphasized the importance of clear documentation, and creating and confirming the existence of `unit2_lab.txt` showcased the HIDS's effectiveness in detecting changes.

In future projects, I'll apply these insights, prioritizing proactive security and regular system updates to maintain a resilient defense against evolving threats.