Assignment 09

linux os & scripting – b keerthana

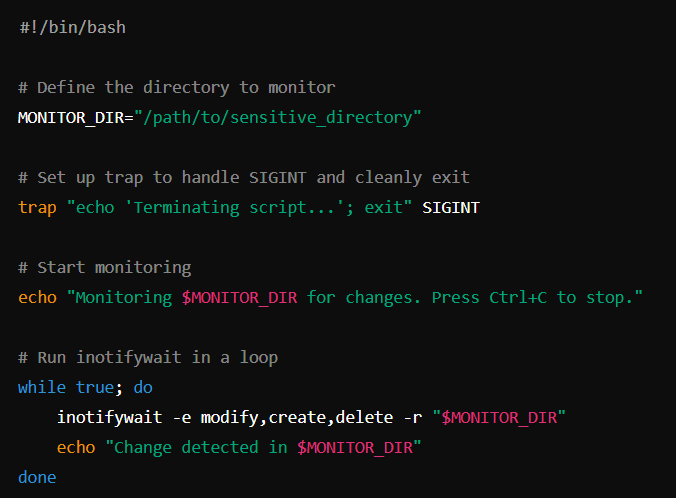
AMRUTHESH

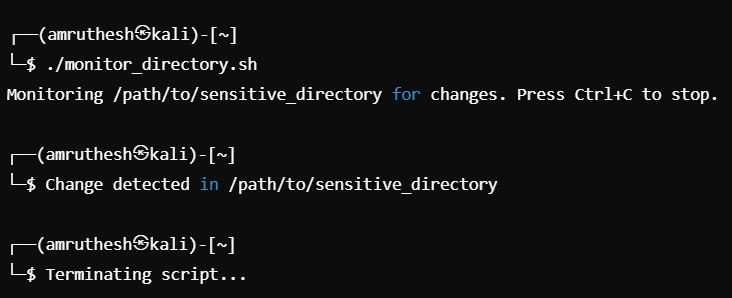
241059041

M.E – Cyber Security

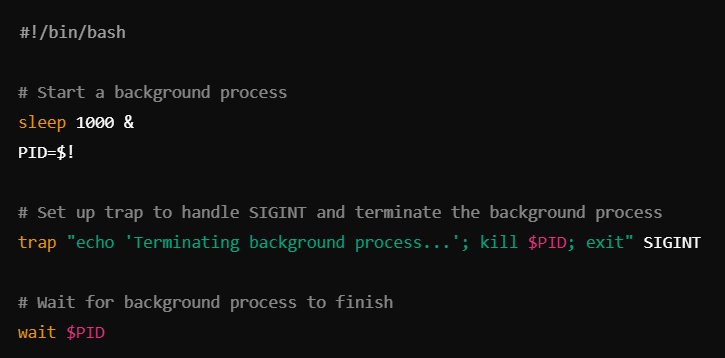
MSIS, MANIPAL

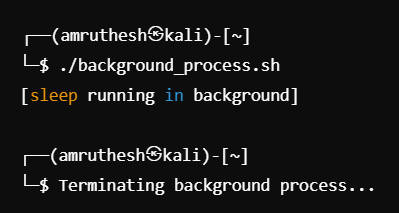
1. **Write a bash script that monitors a sensitive directory (of your choice) for changes using inotifywait (Linux command). Use trap to handle SIGINT (Ctrl+C) to safely exit the script without leaving any processes running.**

****

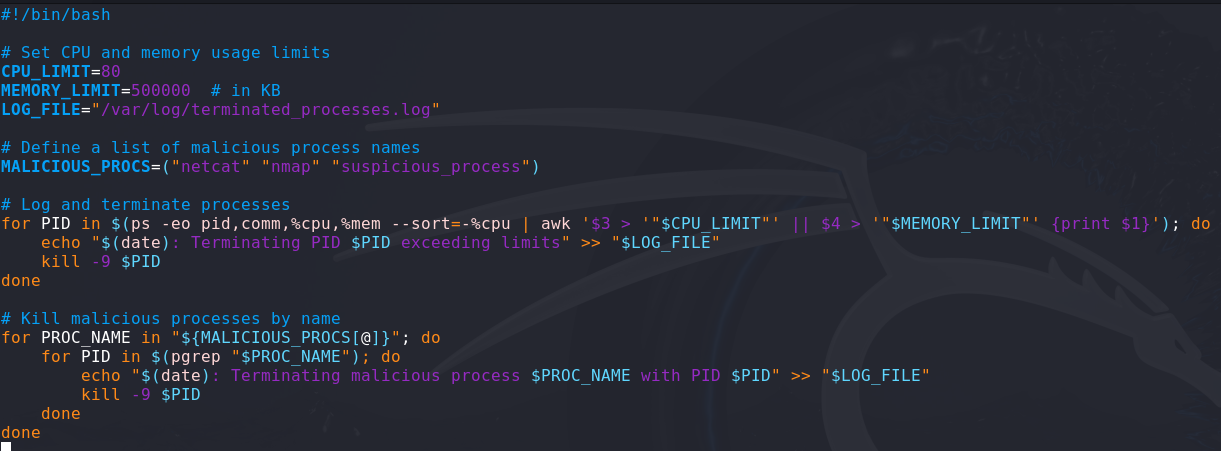
****

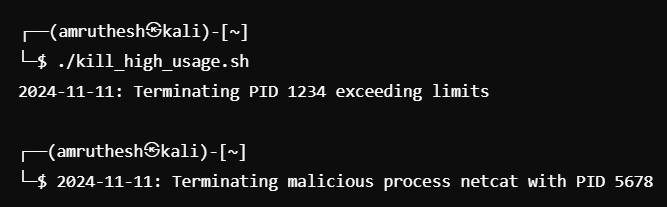
1. **Write a bash script that starts a background process (of your choice), and use trap to catch SIGINT and terminate the process cleanly.**

****

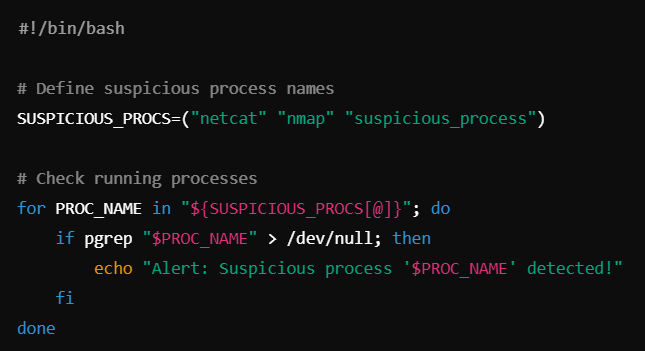
****

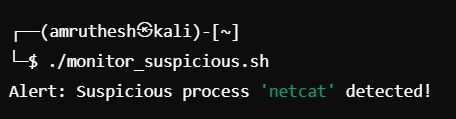
1. **Write a script that kills any process exceeding a defined CPU or memory usage limit or matching a list of malicious process names. The script should log the terminated process details for auditing purposes.**

****

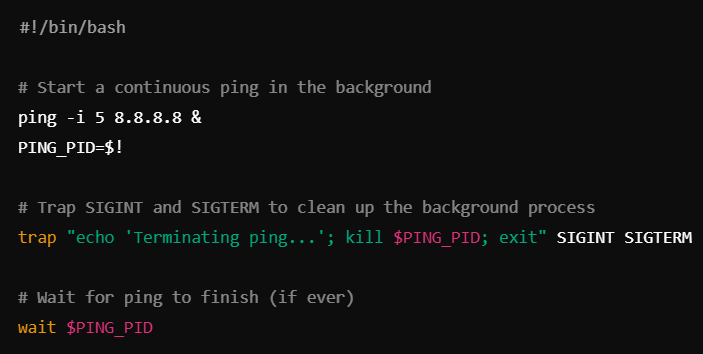
****

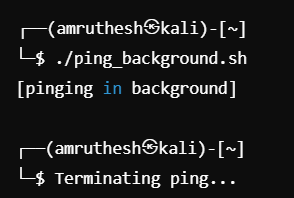
1. **Write a script that monitors running processes and identifies any process that matches a list of known suspicious names (like netcat, nmap).**

****

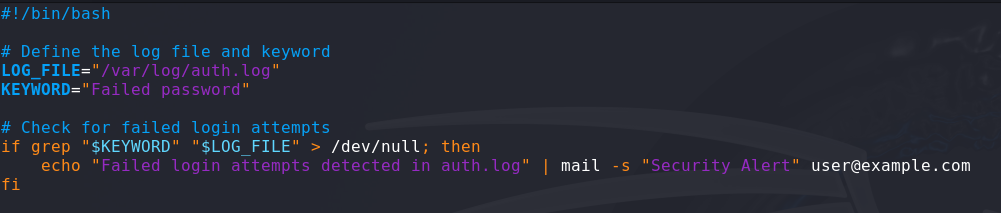
****

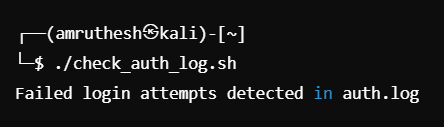
1. **Create a script that runs a background process (such as a continuous ping to a specified IP address). Use trap to capture termination signals (SIGINT, SIGTERM) and ensure the background process is terminated safely when the script is interrupted.**

****

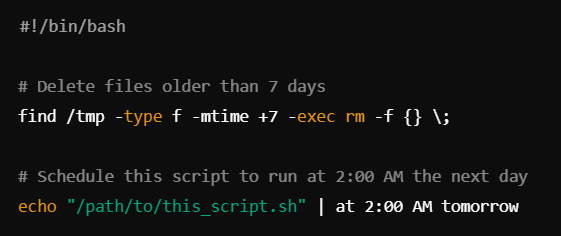
****

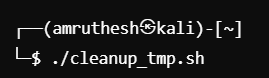
1. **Write a script that checks /var/log/auth.log for failed login attempts and sends notification if any are found. Schedule this script to run every 15 minutes using cron command.**

****

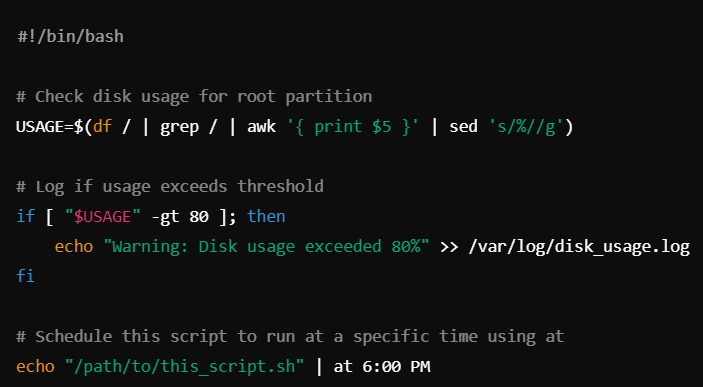
****

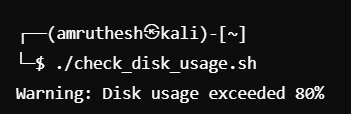
1. **Write a script that removes all files older than 7 days from the /tmp directory, and use at to schedule the script to run at 2:00 AM the next day.**

****

****

1. **Write a script to check if disk usage exceeds 80%, and use at to schedule it to run at a specific time.**

****

****