Lab 4: Monitoring; Logging & Reporting

1   Introduction

The Hunt is over, but the Forest is not sleeping.

Welcome back, Hunter. The Guild requires a status report on the File Tree Forest. The environment is unstable, and files are shifting rapidly. Your task is to capture a snapshot of these changes from the Guild records.

The forest is not as you left it, and the Guild requires a forensic accounting of the chaos. Your report must distinguish between the **DELETED** trails that have gone cold, the **CHANGED** inhabitants that have shifted in their skins, and the **CREATED** anomalies that have suddenly manifested in the undergrowth.

Be warned, for the Guild demands precision. You must adhere to strict constraints: a file listed as "Deleted" cannot appear in "Changed", as these categories must remain distinct. Furthermore, the forest is known to hallucinate; any file explicitly named to be ignored (e.g., "do not include me") is a phantom signal and must be scrubbed from your final report.

2   Notes

Reading the information given in the assignment description and the assignment itself is highly recommended as it includes information specifically related to your assignment.

It is recommended that you record every command that you try, whether successful or not, including a succinct discussion of why that command was chosen and what the expected outcome was and whether that expectation was correct.

The MAN pages are painstakingly crafted documentation for most Unix programs filled to the brim with useful information; as such, they are a very good place for information about the usage of commands.

3   Setup

To begin your investigation, you must seize the sealed archive from the Guild's drop point: Unrest Takes the Guild. Once extracted, you will discover the forest in a deceptive slumber, resting alongside a binary artifact capable of warping reality.

Heed this warning: the artifact is volatile and forged to react only within **Linux** or **Windows** environments. Those of the **macOS Clan** will find the artifact inert on their native soil. To bypass this, you must return to the **Virtual Machine** constructed in your previous training. Indeed, the Guild recommends that *all* hunters conduct this audit within that controlled environment to ensure the tools of the trade are close at hand.

When you are ready to witness the corruption, execute the binary. In an instant, the forest will will writhe, files will vanish into the void, new structure will emerge from nothing, and existing data will mutate. Only once the chaos has settled can your audit truly begin.

4   Deliverables

Once you have successfully tracked shifting tides of the forest, you must submit your generated logs to Canvas. Do not rely on guesswork; utilize the Guild's Oracle (Verifier) to ensure your lists

of deleted, changed, and created files are flawless. When your specific log matches the verifier's truth, submit the formatted text to the Canvas assignment to claim your bounty.