

**PBL Project Phase # 1**

CMPS405

Heba Dawoud

**Shell Scripting**

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**Students:**

Fatima Almohanadi 202002307

Shatha Alhazbi 202108114

Reema Albouainain 202103056

**Introduction:**

This report documents the successful completion of Phase 1 of the Operating Systems (PBL) project. Our team has developed a series of shell scripts to address the challenges of automating network administration tasks in a virtual machine (VM) environment. This project provided practical experience in server and client configuration, security implementation, network services automation, and problem-solving using shell scripting. The project focused on creating a robust and secure network environment of one server (VM1) and two clients (VM2, VM3).

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**Task Distribution:**

|  |  |  |
| --- | --- | --- |
| Student | Tasks | Percentage |
| Shatha | * Server VM * Netowork.sh * Traceroute.sh * System.sh | 33% |
| Fatma | * Client 1 * Login.sh * Check.sh | 33% |
| Reema | * Client 2 * Search.sh * Clientinfo.sh | 33% |

Even though each member had a specific task, we maintained a collaborative spirit throughout the project. We had regular meetings where we solved the tasks together, shared our progress, brainstormed solutions to challenges, and reviewed each others work. Each member contributed meaningfully and equally to the final outcome.