Project Charter

**Project Title**:

Network Performance Evaluation on Linux Based Operating Systems – Physical Team

**Project Start Date:** 03/03/2025 **Projected Finish Date:** 31/10/2025

**Budget Information:**

* The total estimated cost of the project is $125,721.31.

**Project Manager:**

* Thomas Robinson, [cgr2690@autuni.ac.nz](mailto:cgr2690@autuni.ac.nz)

**Project Objectives:**

* The goal of this project is to evaluate the performance of 3 latest Linux based Operating Systems distributions – Fedora OS, Ubuntu, and the team will need to choose the third operating system. These operating systems need to be configured as software routers before running the evaluations. Tools such as iPerf or D-ITG are to be employed to generate the evaluation traffics.

**Main Project Success Criteria:**

* Successfully gather data comparing IPv4 and IPv6, using TCP and UDP protocols, across 12 given packet sizes on 3 different Linux operating systems configured as software routers.

**Approach:**

* We will manage the project lifecycle using a hybrid Waterfall-Scrum methodology. The Planning, Analysis, and Execution phases will follow a Waterfall approach, while the Design and Development phases will be sprint-based to incorporate client feedback and allow for iterative adjustments.

**Roles and Responsibilities**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Name** | **Organization/**  **Position** | **Contact Information** | **Sign** |
| System Architect | **Nathan Quai Hoi** | System Architect | wgk6332@autuni.ac.nz |  |
| System Architect | **Win Phyo** | System Architect | ddk8093@autuni.ac.nz |  |
| Network Engineer | **Zafar Azad** | Network Engineer | ftk8708@autuni.ac.nz |  |
| Project Manager | **Thomas Robinson** | Project Manager | cgr2690@autuni.ac.nz |  |
| Network Engineer | **Larissa Goh** | Network Engineer | xhm5236@autuni.ac.nz |  |
| Network Engineer | **Charmi Patel** | Network Engineer | fhv9735@autuni.ac.nz |  |
| Network Engineer | **Kylie Afable** | Network Engineer | cjq7738@autuni.ac.nz |  |
| Project Mentor | **Daniel Vaipulu** | Project Mentor | daniel.vaipulu@aut.ac.nz |  |
| Client | **Raymond Lutui** | Client | raymond.lutui@aut.ac.nz |  |

**Sign-off:** (Signatures of all above stakeholders. Can sign by their names in table above.)

**Comments:** (Handwritten or typed comments from above stakeholders, if applicable)