# Work Breakdown Structure v2.0

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**Project Name:** Linux Network Performance Evaluation

1. Requirement Analysis
   1. Entry Criteria
      1. Team Kick-Off Meeting Agenda
      2. Team-Client Kick-Off Meeting Agenda
      3. Team Contract
      4. Meeting Minutes (Kick-Off Meetings)
   2. Develop Project Proposal
      1. Communication Stakeholder Register
      2. Project Charter
      3. Client Contract
      4. Meeting Minutes (Team & Client)
   3. Develop Project Plans
      1. Stakeholder Management Strategy
      2. Risk Register
      3. Issue Log
      4. Communication Management Plan
      5. Change Management Plan
      6. Scope Statement
      7. Network Diagram
      8. Requirement Traceability Matrix
      9. Skills Analysis Matrix
      10. Upskilling Plan Schedule
      11. Project Schedule
          1. Schedule baseline showing originally planned activities with their durations and milestones
          2. Work Breakdown Structure
      12. Milestone Report
      13. Estimated Cost
      14. Quality Assurance Plan
      15. Project Proposal submission
      16. Project Proposal presentation
   4. **Milestone 1 – Project Proposal**
   5. Exit Criteria
      1. Client feedback on proposal document
      2. Approval of proposal document from client
2. Evaluation Planning
   1. Entry Criteria
      1. Client approval of project proposal
   2. Researching And Upskilling
      1. Team members upskill for necessary skills
      2. Network tools (iPerf & D-ITG)
   3. Define evaluation scenarios
   4. Define evaluation environment
   5. **Milestone 2 – Mid-Term Review**
   6. Exit Criteria
      1. Client and supervisor feedback on evaluation planning
3. Evaluation Case Development
   1. Entry Criteria
      1. Client and supervisor feedback on evaluation planning
   2. Define evaluation scenario
      1. Requirement traceability
   3. Exit Criteria
      1. Review and validate evaluation cases
      2. Validate with client
      3. Client feedback
4. Evaluation Environment Setup
   1. Entry Criteria
      1. Establishment of hardware and software
      2. Prepare evaluation data
      3. Configure evaluation environment
         1. Configure two computers as routers
         2. Configure three separate networks
      4. Write cases for each scenario
   2. Exit Criteria
      1. Fully functional evaluation environment and approved evaluation cases
      2. Client feedback
5. Evaluation Execution
   1. Entry Criteria
      1. All exit criteria from previous steps
         1. Evaluation environment is approved and functional
   2. Exit Criteria
      1. All evaluations are performed, and results are documented
         1. Conduct a minimum of 10 evaluation runs for each operating system
            1. Configure environment
            2. Each evaluation consists of 12 packet sizes
            3. Each evaluation will be run on both IPv4 and IPv6 separately
            4. Each evaluation will be run on both TCP and UDP separately
         2. Implement evaluation case failure protocol
         3. Client feedback
         4. Execute evaluation cases, scripts, pings
         5. Record and document results for each evaluation run
         6. Analyse performance metrics to determine operating system performance
         7. Client feedback

**Milestone 3 – Client Review and Feedback 1**

**Milestone 4 – Client Review and Feedback 2**

**Milestone 5 – Client Review and Feedback 3**

1. Evaluation Closure
   1. Entry Criteria
      1. Compile and compare results of evaluation
         1. Analyse performance pattern
         2. Summary of the network performance evaluation
         3. Create visualisations and reports
         4. Final poster
   2. Exit Criteria
      1. Document closure report
      2. Evaluation results and analysis
      3. Organise folders for portfolio
      4. Client feedback

**Milestone 6 – Final Poster & Portfolio**