Work Breakdown Structure (WBS)

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**Project Name:** Linux Network Performance Evaluation

1. Planning Phase
   1. Project Initiation
      1. Team Kick-off Meeting Agenda
      2. Team-Client Kick-off Meeting Agenda
      3. Stakeholder Register
      4. Project Charter
      5. Team Contract
      6. Team Meeting Minutes
      7. Client Meeting Minutes
   2. Develop Project Plans
      1. Stakeholder Management Strategy
      2. Risk Register (Version 1)
      3. Issue Log (Version 1)
      4. Milestone Report (Version 1)
      5. Project Proposal

**Milestone 1 – Project Proposal Submission**

* + 1. Communications Management Plan
    2. Work Breakdown Structure (WBS)
    3. Project Schedule
       1. Schedule baseline showing originally planned activities with their durations and milestones
       2. Network Diagram
       3. Critical Path Analysis
    4. Financial Analysis
    5. Project Proposal Presentation
    6. Project Mid-Term Review
    7. Risk Register (Version 2)
    8. Issue Log (Version 2)
    9. Milestone Report (Version 2)
    10. Lessons-Learned Report

**Milestone 2 – Mid Term Review**

1. Analysis Phase
   1. Researching and Upskilling
      1. Team members upskill for necessary skills
   2. Research on Specification of the equipment
      1. Procedures and steps for
   3. Network tools (IPerf or DITG)

***Design Phase to Execution Phase Iteration for each OS***

***Iteration 1– for IPv4 on Ubuntu Operating System (TCP & UDP)***

1. Design Phase
   1. Installation of Linux OS
   2. Configuration of Two Computers as Routers
      1. Configure IP address and subnet masks
      2. Configure Three different Network
   3. Installing Network Tools/ Software
   4. Setting up Monitoring Infrastructure
2. Development Phase
   1. Creating Test Scripts/ Procedure for testing
   2. Developing Data collection mechanisms (Excel file + log file)
   3. Establishing baseline performance metrics
3. Execution Phase
   1. Initial testing for IPv4 in TCP and UDP
      1. Results from testing (Excel file + Log file)
   2. Testing for IPv6 in TCP and UDP
   3. Analysis of the data
   4. Submission of testing

***Second Iteration – for IPv6 on Ubuntu Operating System (TCP & UDP)***

***Third Iteration – for IPv4 and IPv6 on Fedora (TCP & UDP)***

***Fourth Iteration – for IPv4 and IPv6 on Kali Linux*** ***(TCP & UDP)***

1. Closing Phase
   1. Compile all test results
   2. Analyze performance pattern
   3. Create visualizations and reports
   4. Project Closure Submission + Presentation