Report structure of the Research project: Open RAN Vulnerabilities Analysis

Report link: <https://www.overleaf.com/read/jwtbsyswvrfd>

* Intro Page
* Abstract
* Introduction
  + Evolution of mobile network technology
    - 1G, 2G, 3G, 4G
    - 5G
    - 6G
  + Radio Access Network (RAN)
    - Types of RAN
    - Open RAN full architecture
      * Include near real, non, where
  + Virtualization Technology
  + Containerization Technology
    - Docker
    - Kubernetes
  + Security Framework (?)
    - MITRE ATT&CK
    - CVE
    - Exploit DB
* Evaluation of Open-source attack tools
  + Kali Linux
  + Atomic Red Team
  + Caldera
  + Infection Monkey
  + Comparative evaluation
* Practical work implementation
  + Phase 1
    - Full Attack architecture
    - Mapping between CVE and MITRE ATT&CK
  + Phase 2 (PoC)
    - Open RAN implementation in Kubernetes
    - Atomic test implementation
    - Creating attack traces for IT forensic
* Result analysis
  + Phase 1
  + Phase 2
  + Lessons learned
* Future Work
* Conclusion