

These were group projects which were formally presented at the end.

****Cloud Architecture Design****

This project was about designing a System Client to facilitate secure remote access for customers and employees for a Telco.

It involved regulatory and basic technical security obligations which was platformed around AWS as the Cloud platform.

Individual contribution to project:

- Data Storage (Page 3)
- Disaster Recovery (Page 4)
- Secure channel communication (Page 7)
- Authentication Mechanisms (Page 8)
- Encryption and Key Management (Page 9, 10)

****Networking Infrastructure****

This project was about assessing a company's initial networking design which we had to identify a vulnerability for and exploit it.

The exploit was a curl command to access a file manager in an outdated Wordpress patch.

We then sought to improve the network by recommending a Firewall, System hardening, Monitoring and logging and access controls (RBAC)

Individual contribution to project:

- Network Vulnerability (Page 6)
- Introducing exploit (Page 7)
- OSI Model Vulnerability data flow (Page 8)
- Recommendations to strengthen vulnerability (Page 9)
- Firewall rules (Page 16)
- Solution Design: Firewall (Page 24)