

Ethical Hacking

Assignment 3

CIA triad and Parkerian Hexad - Case Study Analysis

Context

You will analyse a real-world security breach from the last four years. To make this assignment resistant to generic or automated outputs, you must base your work on primary sources and demonstrate personal reasoning steps.

Tasks

1 Select your case

Choose a company or organisation that has suffered a security breach in the last four years.

You must:

- Select three primary sources published within one month of the breach (for example: incident reports, press releases, official statements, court filings, responsible disclosure notes).
- Submit screenshots of key excerpts from each source.
- Annotate each screenshot in your own words explaining:
 - What the source claims happened.
 - Which security principles may have been violated.
 - What information is missing or uncertain.

2 Introduction

Provide:

- Your own summary of the incident.

- A short justification for why you selected this case and what makes it interesting or relevant.
- A brief description of any contradictions or uncertainties between your sources.

3 Breach Analysis

Produce an original analysis that includes:

CIA Triad

For each element (Confidentiality, Integrity, Availability):

- Explain whether it was impacted.
- Provide evidence from your primary sources.

Parkerian Hexad

Select four of the six Parkerian Hexad elements and:

- Describe how the breach illustrates or threatens each element.
- Explain how each element could have been applied earlier to prevent or limit the breach.

4 Recommendations

A list of recommendations for preventing future security incidents, including specific policies and procedures that address confidentiality, integrity, availability, authenticity, possession, and utility.

Each recommendation must refer directly to gaps or behaviours found in your primary-source review.

5 Conclusion

Summarise:

- The key weaknesses that enabled the breach.
- What your analysis adds beyond what the public sources stated.

Deliverables

Main Report

- Maximum 2 pages, PDF.

Appendix

Annotated screenshots of primary sources.

References

Minimum 3 primary sources + 2 secondary sources.