Organizational Risk Assessment & Heat Map Analysis

Q Overview

This project demonstrates a Governance, Risk, and Compliance (GRC) approach to identifying, analyzing, and visualizing organizational cybersecurity risks using a risk heat map. It follows a structured methodology using Likelihood × Impact scoring to evaluate and prioritize 14 risks.

@ Objectives

- Identify and categorize common cybersecurity risks
- Calculate Risk Severity Scores (Probability × Impact)
- Visualize the risks in a heat map
- Categorize risks by severity level (Negligible to Critical)
- Propose mitigation recommendations

Risk Scoring Model

- **Likelihood**: Scale of 1 (Rare) to 5 (Almost Certain)
- **Impact**: Scale of 1 (Minimal) to 16 (Catastrophic)
- **Risk Score** = Likelihood × Impact

Severity Classification:

// Heat Map Summary

🧾 Risk Assessment Data Table

R3 Unauthorized Network	Access 4	2	<u>)</u>	8	
R4 Single Point of Failure	3	16	48		
R5 No Content Filtering	3	16	48		
R6 Weak VPN	3	16	48		
R7 Lateral Movement	3	8	24		
R8 Privilege Escalation	3	8	24		
R9 Outdated Devices	2	8	16		
R10 Stolen Cookies	4	16	64		
R11 Brute Force Attacks	3	8	24		
R12 Sensitive Data Expose	d 4	16	6	64	
R13 Reflective XSS	3	8	24		
R14 Admin Tools Exposed to Public 2		16 32		32	

Takeaways

- **High and Critical Risks** (Scores ≥ 20) should be prioritized for mitigation.
- **Ransomware**, **Sensitive Data Exposure**, and **Stolen Credentials** were rated **Critical**.
- Recommended controls include endpoint detection, zero trust access, and patch management.

>> Files Included

- `Risk_Assessment_Report.md` This write-up
- `Risk_Assessment_Report.pdf` Formatted version
- `risk_assessment_heat_map.xlsx` Optional Excel visual

GRC Domains Covered

- Risk Management
- Governance & Compliance Reporting
- Control Recommendations