COIT20265: Networks and Information Security Project (HT1, 2025)

**Draft Report**  
 **Security Posture & Risk Assessment**

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| --- | --- |
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# GitHub and Teams Repository Link

Github: <https://github.com/mianfazal49/Security-Posture-and-Risk-Assessment.git>

**Teams**: [Topic 8: Security Posture and Risk Assessment | General | Microsoft Teams](https://teams.microsoft.com/l/channel/19%3AAlTytSd2xwY0bwTKtDe-B-8kn7B3L9RLXVY4w_-b-DM1%40thread.tacv2/General?groupId=d7b05441-72de-4399-a355-9dd9e8fb9d4c&tenantId=fdade0c4-3fea-4320-ae53-1a1742aeff1e)

# Group Contributions to Technical Artefacts

As part of our project on Security Posture and Risk Assessment, our group developed several technical documents to support the analysis and solutions we proposed for Premier Technology Solutions. These documents (artefacts) are based on the issues we found during the interview and research, especially in the areas of:

* Third-Party Risk Management (TPRM)
* Shadow IT
* Endpoint Security and Detection

## List of Technical Artefacts

|  |  |
| --- | --- |
| **File Name** | **What It’s About** |
| **Project\_Plan.docx** | Detailed planning document including tasks, roles, risks, resources, ethics, and schedule. |
| **Progress Report.docx** | Updates on interview preparation, communication with the company, and task progress. |
| **final-security-assessment-report(Draft).docx** | Full report including company background, findings from interviews, problem analysis, and recommendations. |
| **Third-Party Risk Management (TPRM) Policy Template.docx** | A proposed third-party risk management policy addressing vendor risks. |
| **Literature Review on Third-Party Risk Management Frameworks.docx** | Research summary of best practices in third-party risk management. |
| **Training Plan - Approved Tools, Acceptable Use Policies, and Shadow IT Awareness.docx** | A plan for training employees on approved tools and Shadow IT awareness. |
| **Sanctioned App Marketplace Prototype.docx** | A proposed solution to guide employees toward secure, approved applications. |
| **Case Studies of shadow IT breaches to contexualize risks.docx** | Examples of real-world security incidents caused by Shadow IT. |
| **Compare EDR solutions.docx** | Technical comparison of EDR tools to support endpoint security upgrades. |
| **Interview Q&A Pros and Cons Table.docx** | Analysis of interview responses to refine insights and evaluate response quality. |
| **Look for any TPRM tools and make a cost benefits analysis of different TPRM tools.docx** | Comparison and evaluation of various third-party risk management tools. |
| **Interview Questions.docx** | List of questions prepared for the interview with the company. |
| **Interview Questions with Elaborated Answers.docx** | Completed interview response set with detailed answers from the company. |
| **Interview Questions for Organisation.docx** | Finalized version of the interview script sent to the company. |
| **Weekly Agenda.docx**  **week-6-agenda.docx**  **WEEK-7-agenda.docx**  **week-8.docx** | General planning template used by the group to track weekly discussions, tasks, and goals. |
| **Problems and Solutions Diagram.png** | Diagram of identified problems and potential solutions |

# Individual Contributions Table

|  |  |
| --- | --- |
| **Name** | **Contributions** |
| **Mian Fazal Ur Rehman** | * Wrote the "Roles & Responsibilities" and "Resources Requirement" sections in the Project Plan. * Helped prepare interview questions. * Worked on identifying security problems and writing recommendations. * Conducted cost-benefit analysis of TPRM tools. * Developed the EDR deployment plan. |
| **Theofill Jake Gepila Bautista** | * Wrote "Project Risks & Mitigation" and "Ethical and Professional Issues" in the Project Plan. * Contacted the company and arranged the interview. * Wrote the Introduction in the Draft Report. * Drafted the TPRM Policy Template. * Created the Sanctioned App Marketplace document. * Created a diagram visually outlining identified problems and potential solutions, enhancing clarity and facilitating strategic decision-making. * Created the part Next Phase Individual Tasks * Structuring the document layout for optimal report readability |
| **Sushila Karmacharya** | * Wrote the Overview and Tasks in the Project Plan. * Adding Weekly Agenda to the Teams. * Helped prepare interview questions and refine Q&A. * Compared CrowdStrike and Microsoft Defender for EDR. * Created the Interview Q&A Pros and Cons Table. * Created the group contribution and individual contribution tables. |
| **Shihan Deshapriya Navimana Vidanage** | * Designed the Gantt chart in the Project Plan. * Helped prepare interview questions and refine Q&A. * Conducted literature review on TPRM frameworks. * Created the Shadow IT Training Plan. * Wrote case studies on Shadow IT breaches. |

# Next Phase Individual Tasks

|  |  |  |
| --- | --- | --- |
| **Member** | **Tasks** | **Deliverable** |
| **Shihan** | Finalize **TPRM Policy Template** with vendor risk tiers, audit schedules, and breach notification clauses. | - TPRM Policy Document (PDF) |
| - Vendor Compliance Checklist (Excel) |
| **Mian** | Refine **EDR Strategy Report** comparing CrowdStrike vs. Defender and proposing a phased adoption roadmap. | - EDR Tool Comparison Matrix (PDF) |
| - Phased Rollout Guide (PDF) |
| **Sushila** | Develop **Shadow IT Training Program** (slides, quizzes, case studies). | - Training Workshop Slides (PPT) |
| - Shadow IT Risk Awareness Quiz (PDF) |
| **Theo** | Design **Zero Trust Blueprint** for the sanctioned app marketplace. | - Zero Trust Architecture Diagram (PDF) |
| - Conditional Access Policy Template (Doc) |