

PROJECT OVERVIEW & PLANNING REPORT

- **Project Title : A Red team-Blue team Security Simulation on Microsoft (Major project)**
- **Your Name : Avinash Das ManikPuri**
- **ERP: 6604666**

1. Overview

This project titled “**Attack, Detect & Secure the Cloud Environment**” is a hands-on cybersecurity implementation conducted on **Microsoft Azure**. The project simulates a real-world enterprise cloud environment and follows a **Red Team vs Blue Team** methodology to identify, detect, and mitigate cyber threats.

The infrastructure consists of multiple Linux-based virtual machines representing internal systems, web-facing services, and a centralized SIEM server.

2. Objective

The primary objective of this project is to demonstrate the complete cybersecurity lifecycle in a cloud environment by:

- Simulating real-world cyber-attacks
 - Detecting malicious activities using SIEM
 - Investigating security incidents
 - Applying security hardening techniques
 - Validating security improvements through re-attack
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3. Project Scope

3.1 In-Scope

- Azure Virtual Machine deployment
- Linux system security assessment
- Network access control evaluation
- Attack simulation and detection
- Security hardening and validation

3.2 Out-of-Scope

- Paid security tools

Screenshot Evidence Table – Project Setup

Screenshot No.	Description	Remarks
1	Azure Resource Group Creation	Account name visible
2	Virtual Machines Overview	All VMs listed
3	Network Configuration	VNet & NSG
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