UTM
UNIVERSITI TEKNOLOGI MALAYSIA

CyberSecurity
MALAYSIA

INTERNSHIP PRESENTATION

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Innovating Solutions

Introduction

About CyberSecurity Malaysia

INTRODUCTION

Corporate Overview

CyberSecurity Malaysia, under the Ministry of Digital, enhances national cybersecurity through innovation-led services, reducing digital vulnerabilities and strengthening self-reliance. Its key services include:

- Cyber Security Responsive Services
- Cyber Security Proactive Services
- Outreach and Capacity Building Strategic
- Study and Engagement Industry and Research Development

Vision, Mission and Strategic Theme

Vision

World-class cybersecurity specialist agency.

Mission

Leading the development of a safer and more resilient cyber ecosystem to enhance national security, economic prosperity, and social harmony through

- Provision of quality and impactful services.
- Frontier-expanding cyber knowledge and technical supremacy.
- Continuous nurturing of talent and expertise.

Strategic Theme

- Partner in Driving National Agenda.
- Quality & Impactful Service/Projects.
- Integrated Development & Delivery.
- Technical Excellence & Capacity Enhancement.
- Financial Sustainability.

Digital Forensics Department Services

- Xforensik tools
  - PenDua
  - Kloner
  - DataHapus
- CyberDiscovery
- camMuka 2.0
- Digital Forensics Quality Management System Expert Consultation

Xforensik tools

PenDua : Forensic-grade portable file duplicator

Kloner : Forensic tool for cloning, imaging, and wiping

DataHapus : high-powered and user-friendly data sanitization device

CamMuka 2.0

CamMuka is a forensically sound facial recognition system for criminal investigations, delivering court-admissible results. Powered by AI and backed by scientific research, it follows SOPs and international digital forensic standards.

Digital Forensics Quality Management System Expert Consultation

Digital Forensics QMS Expert Consultation helps labs develop ISO 17025-compliant policies, ensuring skilled staff, controlled environments, and court-admissible forensic results.

CyberDiscovery

CyberDiscovery is a service offered to individual and private organization. It addresses concern on Electronic Stored Information (ESI) in order to provide solution to civil litigation. It includes the following services:

- Onsite Digital Evidence Preservation
- Digital Evidence Analysis
- Expert Witness

Internship projects

Internship Projects

Token Creation

Cryptocurrency Mining

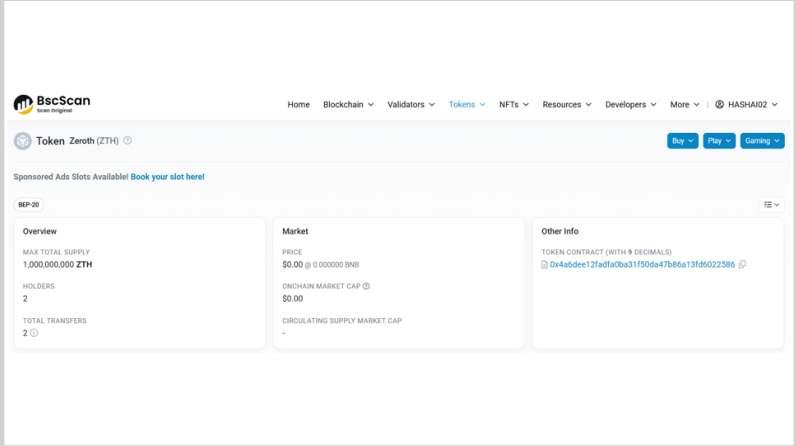
Transaction Analysis Using Etherscan

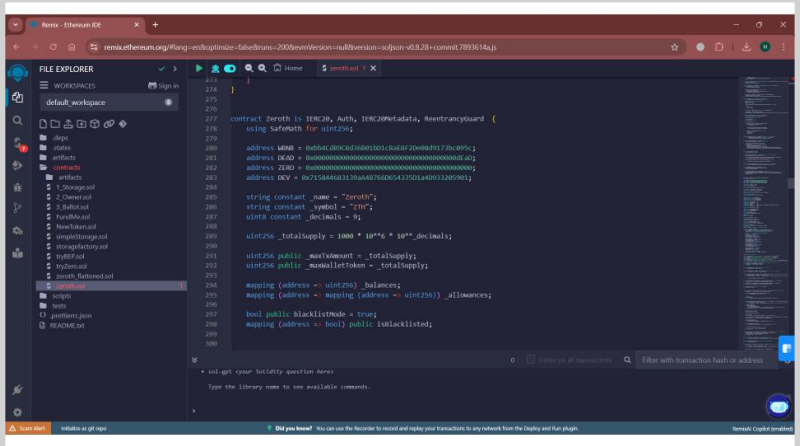
Capture The Flag Challange

Token Creation

- Developed a **BEP-20 token** using OpenZeppelin's standard for compliance and security.
- Leveraged **Binance Smart Chain (BSC)** for lower gas fees and cost-effective development.
- Ensured adherence to **blockchain security standards** for reliable functionality.
- Used the token to **simulate fraud scenarios** for research on blockchain ecosystems.

Implementation



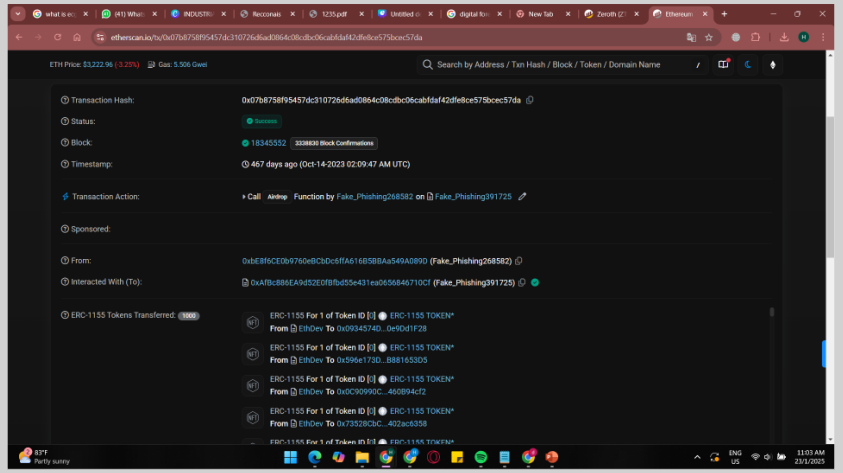


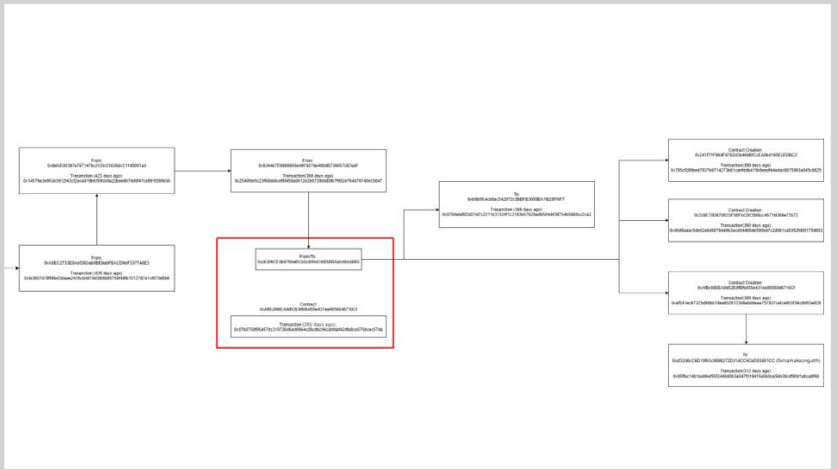
Token Creation

Transaction Analysis Using Etherscan

- **Investigated phishing transactions** using **Etherscan** to analyze fraudulent blockchain activities.
- **Traced and identified fraud patterns**, visualizing illicit transaction flows with Draw.io.
- **Researched blockchain fraud** and phishing strategies from reliable sources like forums, articles, and cybersecurity discussio

Implementation





Token Creation

Transaction Analysis Using Etherscan

Cryptocurrency Mining

- Assigned to **cryptocurrency mining** on a specialized machine with six AMD RX470 GPUs.
- Conducted extensive research to select the most profitable **coin to mine**.
- Used **hashrate.no** to analyze mining profitability, device compatibility, and market trends.
- Evaluated hash rate, energy usage, and market movements to optimize mining selection

Implementation

Token Creation

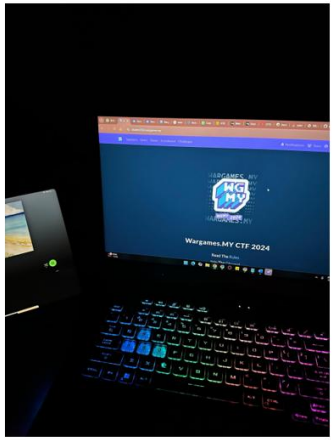
Transaction Analysis Using Etherscan

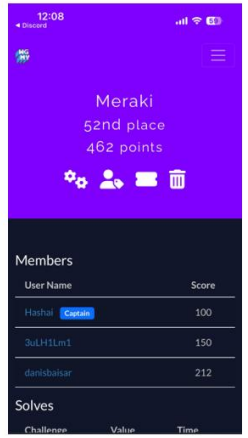
Cryptocurrency Mining

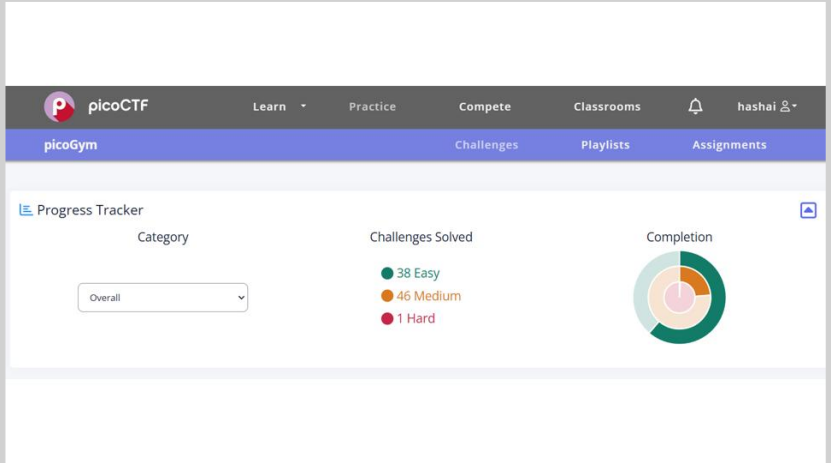
Capture The Flag Challange

- **Led a team of interns** through Capture The Flag (CTF) challenges to enhance cybersecurity skills.
- Guided the team on platforms like **TryHackMe, PicoCTF, and Hack The Box (HTB).**
- Organized **daily one-hour sessions** to foster collaboration and knowledge sharing.

Implementation







Experience & Knowledge Gained from Internship

01

Blockchain & Smart Contracts

Developed **BEP-20 token**, debugged **Solidity**, and ensured compliance.

Blockchain Analysis

Investigated phishing scams using **Etherscan**, visualized fraud patterns.

02

03

Cryptocurrency Mining

Configured **mining rigs**, optimized performance using **Hashrate.no**.

CTF Challenges

Led a team on **TryHackMe, PicoCTF, HTB**, using **Kali Linux, Burp Suite, Metasploit**.

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Activities during Internship

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