Project: METAL SNAKE

Scope Statement

Project Sponsor: Brendan Gasparin

Project Manager: Brendan Gasparin]

Date of Project Approval: 14/08/2024

Commencement Date: 29/07/2024

Estimated Completion Date: 17/11/2024

Estimated Project Duration: 4 Months

Version: 1.2 (14/08/2024)

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1. Project Scope Statement

Project Name: METAL SNAKE

Project Sponsor: Brendan Gasparin

Project Manager: Brendan Gasparin

Project Objectives:

- Create an on-premises cybersecurity lab network with servers
- Create a cloud web server
- Create a cloud-based SIEM
- Document all steps
- Make a video for each phase and sub-phase

Project Justification: Running an on-premises cybersecurity lab with servers will drastically reduce the costs of online cloud web hosting for the business. It will also provide cybersecurity experience and training to employees and increase network security.

1. Project Scope Statement

Project Name: METAL SNAKE

1.1. In Scope

Project Deliverables

Deliverable No.	Deliverable Name	Deliverable Description
1	Preliminary Schedule	• Preliminary schedule for the project
2	Business Case	• Document justifying the project
3	Stakeholder Register	• Document identifying stakeholders and their details
4	Project Charter	• Formally authorizes the project
5	Project Manager Assignment	• Formally assigns and authorizes the project manager to begin the project
6	Scope Statement	• Define the project scope
7	Initial Risk Register	• Identifies and assesses project risk
8	Introductory Videos	• Video introducing the project
9	Initiation Phase Video	• Video explaining the initiation phase
10	Project Plan	• Deliverables for the planning phase • Planning phase video
11	Scope Statement	• Updated scope statement defining the project scope
12	Requirements Document	• A comprehensive list of project requirements, prioritized and approved by stakeholders
13	Resource Plan	• Details required resources and their allocation throughout the project
14	Risk Management Plan	• Identifies potential risks and outlines risk management strategies
15	System Architecture Document	• Outlines the high-level structure of the system, including components, their interactions, and the overall architecture framework
16	Data Model and Database Design Document	• Defines the data structures and database schema used by the system
17	Interface Design Document	• Details the UI and UX elements of the system
18	Security Design Document	• Details the security architecture and measures to protect the system
19	Network Design Document	• Outlines network architecture and configuration required to support the system.
20	Deployment Plan	• Plan for deploying the system into production
21	Testing Strategy and Plan	• Plan for testing the system to ensure it meets requirements and is free of defects
22	Execution Deliverables	• Documentation deliverables for the execution phase • Cloud-based web server • Raspberry Pi web server • Raspberry Pi router • Raspberry Pi firewall

		• Raspberry Pi wireless access point • Cloud-based SIEM • Mautic installation on the self-hosted server • Execution phase videos
23	Testing Deliverables	• Documentation and video deliverables for the testing phase
24	Deployment Deliverables	• Documentation and video deliverables for the deployment phase
25	Maintenance and Closure Deliverables	• Documentation and video deliverables for the maintenance and closure phase • Post-mortem report

1.1.1. Work Breakdown Structure (WBS)

Work Breakdown Structure (WBS) attached	No
Link	N/A

1.1.2. Project Tasks

Task No.	Task Name	Task Description	Rel. to Deliverable #
1	Preliminary Schedule	Write the preliminary schedule	1
2	Business Case	Write the business case	2
3	Stakeholder Register	Write the stakeholder register	3
4	Project Charter	Write the project charter	4
5	Project Manager Assignment	Write the project manager assignment Get stakeholders to sign PM assignment	5
6	Scope Statement	Write the scope statement	6
7	Initial Risk Register	Write the initial risk register	7
8	Introductory Video	Produce the introductory video	8
9	Planning	Planning deliverables	9
10	Execution	Execution deliverables	10
11	Testing	Testing deliverables	11
12	Deployment	Deployment deliverables	12
13	Maintenance and Closure	Maintenance and closure deliverables	13

1.2. Out of Scope

This project will NOT attempt to accomplish or include the following:

- Non-business-related software, servers, and services.
- Any IT infrastructure or systems not directly related to improving production or reducing operational costs.
- Recreation or personal use projects, such as gaming and media streaming servers.

While gaming and media streaming servers are not in the scope of Project: METAL SNAKE, the project sponsor is free to adopt them as personal projects.

1.3. Project Assumptions

Assumption No.	Assumption
1.	The web development business will be profitable.
2.	The business will be able to sell and produce at least one website a month, beginning in September 2024.
3.	The project sponsor will not move premises before the project completion date.
4.	Google Cloud will not substantially increase their hosting prices.
5.	The stakeholders will continue to approve of the project once it begins.
6.	The equipment purchased will be functional.

1.4. Scope Constraints

Project Start Date:	29/07/2024
Launch Date:	17/11/2024
Project End Date:	17/11/2024
Hard Deadlines:	11/08/2024: Initiation phase documentation 25/08/2024: Planning phase documentation 01/09/2024: On-premises web server 08/09/2024: Cloud server #1 15/09/2024: Hardware firewall 22/09/2024: Raspberry Pi router 29/09/2024: Raspberry Pi WAP 06/10/2024: Cybersecurity lab 13/10/2024: Cloud-based SIEM 20/10/2024: Mautic email automation software 03/11/2024: Deployment 17/11/2024: Closure and Maintenance
Key Milestone Dates:	01/09/2024: On-premises web server 08/09/2024: Cloud web server 06/10/2024: LAN installation 13/10/2024: Cloud-based SIEM system 20/10/2024: Mautic email automation 03/11/2024: Deployment 17/11/2024: Closure and maintenance
Budget Constraints:	$2,165.99 (including $500 contingency)
Performance or Quality Constraints:	• Wi-fi range and signal strength must not decline. • Client web pages need to load within a few seconds.
Equipment Constraints:	• Physical equipment outlined in the business case. • Free open-source software.
Regulatory Constraints:	• Must see lawyer to determine regulatory constraints.
Other Known Constraints:	

1.5. Cost Estimate

Item	Estimated Cost	Actual Cost	Variance
Raspberry Pi 5 8GB x 4	$538.00		
Raspberry Pi Power Supply x 4	$82.60		
Raspberry Pi Official Case x 2	$34.42		
Argon NEO 5 Raspberry Pi Case x 2	$69.90		
Raspeberry Active Cooler x 4	$34.44		
Raspberry Pi Keyboard	$32.00		
Raspberry Pi Mouse	$18.00		
512GB SanDisk Mini SD Card x 4	$323.96		
Micro HDMI Cable x 2	$15.10		
Wireless Network Adapter x 2	$93.60		
USB to Ethernet adapter x 2	$39.98		
External Storage 5TB	$189.00		
Ethernet cables x 5	$14.99		
Office Supplies	$80.00		
Static IP hire	$50.00		
Cloud hosting for web server	$45.00		
Cloud-hosting for SIEM	$15.00		
Totals:	$1,675.99		

1.6. Project Approvals

Stakeholder	Stakeholder Role	Date Approval Submitted	Date Approval Accepted
██████████	Premises Owner	14/08/2024	14/08/2024
	Premises Owner	14/08/2024	14/08/2024