Aegis Platform Implementation Plan

Enic 1: Foundation & Project Setup 6

(Implemented, Not Implemented, etc.).

This plan is divided into four distinct phases, allowing for iterative development, testing, and feedback. 2

- **Phase 1: Minimum Viable Product (MVP)** Build the core, end-to-end risk management loop.
- Phase 2: Core Enhancements & Integrations Add key integrations and improve the user experience.

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- Phase 3: Intelligence Layer Weave in the LLM-powered automation features.
- Phase 4: Enterprise Readiness Add features for scale, auditing, and advanced reporting.

Phase 1: MVP - The Core Risk Management Loop 4

The goal of this phase is to have a functional, end-to-end platform that allows a user to perform a basic risk 5 assessment and track it to completion.

-bi	e i. Foundation & Foject Setup	
	Task: Initialize Git repository and establish branching strategy (e.g., GitFlow).	7
	Task: Set up cloud infrastructure (e.g., Azure App Service, Vercel, AWS Amplify).	
	Task: Configure CI/CD pipeline for automated testing and deployment.	
	Task: Set up project boilerplate for Frontend (Next.js) and Backend (FastAPI/Node.j	5).
	Task: Create initial database schema in PostgreSQL.	
	Task: Implement basic design system tokens (colors, fonts, spacing) in the frontend	l .
Epi	c 2: User Authentication & Roles (Core) 8	
	Task: Integrate Microsoft Entra ID using OAuth 2.0 for user login/logout.	10
	Task: Create database tables for Users and basic Roles (Admin, Analyst, ReadOnly).	
	Task: Implement backend middleware to protect authenticated routes.	
	Task: Build the frontend login page and logic for handling authentication tokens.	
	Task: Create a simple user profile page.	
Epi	c 3: Asset Management (Core) 11	
	Task: Design and implement the Assets table in the database.	12
	Task: Build backend API endpoints (CRUD - Create, Read, Update, Delete) for assets	
	Task: Create frontend UI to list, add, edit, and view assets.	
	Task: Implement a basic CSV import function for assets.	
Epi	c 4: Assessment & Analysis (Core) 13	
	Task: Create a database seeding script to load NIST CSF and CIS Controls framewor	ks.
	Task: Build UI to start a new assessment by selecting assets and a framework.	
	Task: Develop the main assessment interface where users can set a status for each	control

☐ Task: Implement the logic to automatically create a "Risk" in the Risk Register when a control is mark "Not Implemented."	ed 1
☐ Task: Build the basic Risk Register UI to view a list of identified risks.	
☐ Task: Implement the configurable Likelihood/Impact matrix and allow users to score risks.	
Epic 5: Mitigation & Reporting (Core) 2	
☐ Task: From the Risk Register, allow users to create a simple remediation task (Title, Assignee, Status).	3
☐ Task: Build a basic Kanban or list view to track mitigation task status.	
☐ Task: Create a single, simple report template (e.g., PDF export of the Risk Register).	
Epic 6: Basic Dashboard 4	
☐ \$ask: Design a simple, single dashboard for all users.	
☐ Task: Add widgets for basic counts: Total Assets, Open Risks, Assessments in Progress.	
Phase 2: Core Enhancements & Integrations ⁷	
With the core loop functional, this phase focuses on adding the powerful integrations and improving the U	JX. 8
Epic 7: Advanced UX/UI Polish 9	
☐ Task: Implement the gradient accent colors and other visual design elements.	
\square Task: Add smooth page transitions and micro-animations on interactive elements.	
☐ Task: Implement skeleton loaders for a better data-loading experience.	
Tásk: Implement both Light and Dark modes.	
Epic 8: Evidence & Documentation 12	
☐ Task: Implement secure file upload capability for evidence (link to controls and tasks). 13	
☐ Task: Add rich-text editor for control narratives and comments.	
☐ Task: Build the "Awaiting Review" workflow gate for mitigation tasks.	
Epic 9: OpenVAS Integration 14	
☐ Task: Develop a backend service to connect to the OpenVAS API.	5
☐ Task: Create a UI for admins to configure the OpenVAS connection details securely.	
☐ Task: Implement the logic to correlate OpenVAS vulnerabilities with Aegis assets.	
☐ Task: Create a workflow to automatically flag controls (CIS 7) or create risks based on high-severity findings.	
Epic 10: OpenCTI Integration 16	
Task: Develop a backend service to connect to the OpenCTI GraphQL API. 17	20
Tåsk: On the Risk Register page, create a new UI tab or section called "Threat Intel."	
■ Task: When a risk is viewed, query OpenCTI for related threat actors, malware, or campaigns and disthe results.	play

Epic 11: Role-Based Dashboards 21

☐ Task: Refactor the basic dashboard into a dynamic, widget-based system.	1
☐ Task: Design and implement the CISO Cockpit, Analyst Workbench, and Syst	em Owner Inbox views.
Phase 3: Intelligence Layer (LLM Features) ²	
This phase introduces the Al capabilities that differentiate the platform. 3	
Epic 12: LLM Service Integration 4	
☐ Task: Select an LLM provider (e.g., Azure OpenAI) and set up secure API acce	ess. 5
☐ Task: Create a centralized backend service for managing prompts and parsi	ng LLM responses.
Epic 13: Al-Powered Features 6	
☐ Task: (Evidence Analysis): Add a button to "Analyze Evidence." Wire it to th uploaded documents and provide a summary.	e LLM service to scan 7
☐ Task: (Narrative Generation): Add a "Suggest Narrative" button that uses a generate a draft narrative for a control.	evidence summaries to
☐ Task: (Risk Statement Generation): Add a "Generate with Al" button on th technical data and threat intel to draft a formal risk statement.	e Risk Register that uses
☐ Task: (Remediation Suggestions): Add a "Suggest Plan" button on mitigation level, step-by-step remediation plan.	on tasks to generate a high-
☐ Task: (Executive Summary): In the reporting module, add a "Generate Exec	cutive Summary" button that
analyzes dashboard metrics to produce a narrative for leadership.	
Phase 4: Enterprise Readiness 8 This final phase adds features required for large-scale adoption, security, and cor	mpliance. 9
Epic 14: Advanced Reporting & Auditing 10	
Task: Develop the custom report builder with a drag-and-drop interface.	12
Task: Implement report scheduling and email distribution.	
Task: Create a comprehensive audit trail for every significant action in the p	latform.
Task: Build a UI to view and search the audit logs.	
Epic 15: Advanced RBAC 13	
☐ Task: Extend the roles system to allow for custom, user-defined roles.	14
Task: Implement fine-grained permissions (e.g., restricting access to assets of the control of	or modules based on role).
Epic 16: Documentation 16	
☐ Task: Set up the Astro project for documentation.	18
Task: Write comprehensive user guides for all major features and personas.	
Task: Create admin guides for setting up integrations and authentication.	

Epic 17: Scalability & Security Hardening 20

Task: Conduct performance and load testing on the platform. 2
Task: Perform a third-party penetration test and remediate findings. 3
Task: Optimize database queries and add caching where appropriate. 4