Aegis Platform Implementation Plan

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

- 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.
- 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

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

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Epic	: 1: Foundation & Project Setup		
	Task: Initialize Git repository and establish branching strategy (e.g., GitFlow).		
	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.js).		
	Task: Create initial database schema in PostgreSQL.		
	Task: Implement basic design system tokens (colors, fonts, spacing) in the frontend.		
Epic 2: User Authentication & Roles (Core)			
	Task: Integrate Microsoft Entra ID using OAuth 2.0 for user login/logout.		
	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.		
Epic	3: Asset Management (Core)		
	Task: Design and implement the Assets table in the database.		
	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.		
Epic	2 4: Assessment & Analysis (Core)		
	Task: Create a database seeding script to load NIST CSF and CIS Controls frameworks.		
	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		
	(Implemented, Not Implemented, etc.).		

	Task: Implement the logic to automatically create a "Risk" in the Risk Register when a control is marked
	"Not Implemented."
	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)
	Task: From the Risk Register, allow users to create a simple remediation task (Title, Assignee, Status).
	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
	Task: Design a simple, single dashboard for all users.
	Task: Add widgets for basic counts: Total Assets, Open Risks, Assessments in Progress.
Dh	aco 2. Coro Enhangomento 9 Integrations
	ase 2: Core Enhancements & Integrations
With	the core loop functional, this phase focuses on adding the powerful integrations and improving the UX.
Epic	7: Advanced UX/UI Polish
	Task: Implement the gradient accent colors and other visual design elements.
	Task: Add smooth page transitions and micro-animations on interactive elements.
	Task: Implement skeleton loaders for a better data-loading experience.
	Task: Implement both Light and Dark modes.
Epic	8: Evidence & Documentation
	Task: Implement secure file upload capability for evidence (link to controls and tasks).
	Task: Add rich-text editor for control narratives and comments.
	Task: Build the "Awaiting Review" workflow gate for mitigation tasks.
Epic	9: OpenVAS Integration
	Task: Develop a backend service to connect to the OpenVAS API.
	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
	Task: Develop a backend service to connect to the OpenCTI GraphQL API.
	Task: 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 display
	the results.

Epic 11: Role-Based Dashboards

	Task: Refactor the basic dashboard into a dynamic, widget-based system.
	Task: Design and implement the CISO Cockpit, Analyst Workbench, and System Owner Inbox views.
Ph	ase 3: Intelligence Layer (LLM Features)
This	phase introduces the Al capabilities that differentiate the platform.
Epic	12: LLM Service Integration
	Task: Select an LLM provider (e.g., Azure OpenAl) and set up secure API access.
	Task: Create a centralized backend service for managing prompts and parsing LLM responses.
Epic	c 13: Al-Powered Features
	Task: (Evidence Analysis): Add a button to "Analyze Evidence." Wire it to the LLM service to scan
	uploaded documents and provide a summary.
	Task: (Narrative Generation): Add a "Suggest Narrative" button that uses evidence summaries to
	generate a draft narrative for a control.
	Task: (Risk Statement Generation): Add a "Generate with Al" button on the Risk Register that uses
	technical data and threat intel to draft a formal risk statement.
	Task: (Remediation Suggestions): Add a "Suggest Plan" button on mitigation tasks to generate a high-
	level, step-by-step remediation plan.
	Task: (Executive Summary): In the reporting module, add a "Generate Executive Summary" button that
	analyzes dashboard metrics to produce a narrative for leadership.
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Ph	ase 4: Enterprise Readiness
This	final phase adds features required for large-scale adoption, security, and compliance.
Epic	: 14: Advanced Reporting & Auditing
	Task: Develop the custom report builder with a drag-and-drop interface.
	Task: Implement report scheduling and email distribution.
	Task: Create a comprehensive audit trail for every significant action in the platform.
	Task: Build a UI to view and search the audit logs.
Epic	c 15: Advanced RBAC
	Task: Extend the roles system to allow for custom, user-defined roles.
	Task: Implement fine-grained permissions (e.g., restricting access to assets or modules based on role).
Epic	c 16: Documentation
	Task: Set up the Astro project for documentation.
	Task: Write comprehensive user guides for all major features and personas.
	Task: Create admin guides for setting up integrations and authentication.
Enic	17: Scalability & Security Hardening

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