Project Design Proposal: SecureHealthCare – Zero Trust Approach

OBJECTIVES

Phase I :

1. Design a Zero Trust security framework for healthcare.

2. Implement Identity & Access Management (IAM) with MFA.

3. Apply microsegmentation to prevent lateral movement.

4. Establish centralized policy enforcement.

5. Ensure encryption and secure communication.

6. Provide centralized logging & monitoring.

Phase II :

1. Deploy Endpoint Detection & Response (EDR) at device level.

2. Implement real-time endpoint monitoring agents.

3. Perform event correlation & anomaly detection.

4. Demonstrate automated responses integrated with ZTA.

NOVELTY

- Integrates ZTA and EDR into a single healthcare-focused security model.

- Provides adaptive, real-time protection rather than static, firewall-based defenses.

- Secures sensitive patient data through access verification, segmentation, monitoring, and automated response.

ARCHITECTURAL DIAGRAM