Technology Stack Template - Detailed Standard

This document provides full technical layering explanation for enterprise scale User, Group and Role Management solutions with automated workflow governance.

Technical Architecture - TA3 Layer Explanation

TA3 is enterprise secure Zero Trust aligned layered architecture pattern for RBAC and Workflow authorization systems.

Layer	Purpose	Example Tech
UI	Admin/Portal Workflow	React / Next
API	Access, Routing, AuthN	FastAPI / Flask
RBAC Engine	Policy Enforcement	OPA / Custom Engine

Framework	Use Case	Outcome
OAuth2	Authentication	Single Login Model
Keycloak	IAM/RBAC	Central Policy Mgmt
Postgres	Secure Storage	Role/Group Mapping

Security Layer	Responsibility
JWT	Token Validation
Audit Log	Forensics
Policy Engine	Rule Enforcement

Deployment Case	Stack
Enterprise	Azure AD + OPA + Postgres
Gov Sector	AD + SAML + OnPrem DB

Reference Links (Official)

https://learn.microsoft.com/en-us/security/zero-trust/deploy/implement-role-based-access-control

https://www.keycloak.org/documentation

https://auth0.com/docs