Architecture Security Assessment Checklist

Ten-step methodology for security architecture review

Assessment Steps

■ Review security requirements and compliance obligations

■ Analyze attack surface (endpoints, APIs, data stores, integrations)

■ Verify authentication mechanisms (MFA, session management, token handling)

■ Validate authorization model (RBAC/ABAC, least privilege enforcement)

■ Assess data protection (encryption at rest/transit, classification enforcement)

■ Evaluate network segmentation and trust boundaries

■ Review logging and monitoring architecture

■ Check dependency management and supply chain controls

■ Verify error handling and fail-safe behavior

■ Document findings in Architecture Decision Records (ADRs)