

Architecture Vision Document

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1 Purpose of this Document

This document outlines the long-term architectural vision for [System Name], providing strategic direction, guiding principles, and a roadmap for architectural evolution. It serves as a reference for making architectural decisions aligned with business and technical goals.

2 Executive Summary

[2-3 paragraphs summarizing the architectural vision, key goals, and strategic importance]

3 Strategic Context

Business Context:

Market Drivers:

- [Key market factor influencing architecture]
- [Additional market factors]

Business Goals:

- [Goal 1, e.g., "Increase customer self-service capability"]
- [Goal 2, e.g., "Reduce operational costs"]
- [Goal 3, e.g., "Enter new market segments"]

Success Metrics:

- [Metric 1, e.g., "50% reduction in manual processes"]
- [Metric 2, e.g., "99.9% system availability"]
- [Metric 3, e.g., "Support for 10x current user load"]

Technical Context:

Current State Challenges:

- [Challenge 1, e.g., "Monolithic architecture limits scaling"]
- [Challenge 2, e.g., "Technical debt in legacy systems"]
- [Challenge 3, e.g., "Limited automation"]

```

Technical Goals:
  - [Goal 1, e.g., "Adopt
microservices architecture"]
  - [Goal 2, e.g., "Implement cloud-
native design"]
  - [Goal 3, e.g., "Automate CI/
CD pipeline"]

Success Metrics:
  - [Metric 1, e.g., "Deployment
frequency increased to daily"]
  - [Metric 2, e.g., "MTTR reduced
to < 1 hour"]
  - [Metric 3, e.g., "Test coverage
> 90%"]

```

4 Architecture Principles

Prin- ciple	Descrip- tion	Ratio- nale	Implica- tions
[Name]	[Brief descrip- tion]	[Why this prin- ciple mat- ters]	[Impact on deci- sions]
[Name]	[Brief descrip- tion]	[Why this prin- ciple mat- ters]	[Impact on deci- sions]
[Name]	[Brief descrip- tion]	[Why this prin- ciple mat- ters]	[Impact on deci- sions]

5 Target Architecture Vision

```

graph TD
  subgraph "Customer Channels"
    A[Web Application]
    B[Mobile Application]
    C[Partner APIs]
  end

  subgraph "Integration Layer"
    D[API Gateway]
    E[Event Broker]
  end

  subgraph "Business Capabilities"
    F[Customer Management]
    G[Product Management]
    H[Order Processing]
    I[Analytics]
  end

  subgraph "Platform Services"
    J[Identity & Access]
    K[Data Services]
    L[Monitoring]
  end

  A --> D
  B --> D
  C --> D
  D --> F
  D --> G
  D --> H
  F --> E
  G --> E
  H --> E
  E --> I
  F --> J
  G --> J
  H --> J
  F --> K
  G --> K
  H --> K
  I --> K

```

```
J --> L
K --> L
```

6 Technology Roadmap

```
@startuml
scale 1.5
caption Technology Evolution Timeline
```

```
concise "Infrastructure" as Infra
concise "Applications" as Apps
concise "Data" as Data
concise "Integration" as Integ
concise "Security" as Sec
```

```
@0
Infra is "On-Premises"
Apps is "Monolithic"
Data is "Relational"
Integ is "Point-to-Point"
Sec is "Perimeter-Based"
```

```
@25
Infra is "Hybrid Cloud"
Apps is "Services"
Data is "Relational + NoSQL"
Integ is "Service Bus"
Sec is "Identity-Based"
```

```
@50
Infra is "Cloud-Native"
Apps is "Microservices"
Data is "Polyglot Persistence"
Integ is "API + Events"
Sec is "Zero Trust"
```

```
@75
Infra is "Multi-Cloud"
Apps is "Mesh Architecture"
Data is "Data Mesh"
Integ is "Event-Driven"
Sec is "Automated Compliance"
```

```
@100
Infra is "Target State"
Apps is "Target State"
Data is "Target State"
Integ is "Target State"
Sec is "Target State"
```

```
@enduml
```

7 Evolution Strategy

Phases:

Phase 1 - Foundation (Q1-Q2 2023):

Objectives:

- [Objective 1, e.g., "Establish cloud infrastructure"]
- [Objective 2, e.g., "Implement CI/CD pipeline"]
- [Objective 3, e.g., "Develop API strategy"]

Key Deliverables:

- [Deliverable 1, e.g., "Cloud landing zone"]
- [Deliverable 2, e.g., "Automated deployment pipeline"]
- [Deliverable 3, e.g., "API gateway implementation"]

Success Criteria:

- [Criteria 1, e.g., "All new services deployed to cloud"]
- [Criteria 2, e.g., "Deployment time reduced by 50%"]
- [Criteria 3, e.g., "API design standards published"]

Phase 2 - Modernization (Q3-Q4 2023):

Objectives:

- [Objective 1, e.g., "Decompose monolith into services"]
- [Objective 2, e.g., "Implement

event-driven architecture"]

- [Objective 3, e.g., "Enhance data management capabilities"]

Key Deliverables:

- [Deliverable 1, e.g., "Core services migrated"]
- [Deliverable 2, e.g., "Event broker platform"]
- [Deliverable 3, e.g., "Data lake implementation"]

Success Criteria:

- [Criteria 1, e.g., "50% of monolith functionality moved to services"]
- [Criteria 2, e.g., "Key business events captured and published"]
- [Criteria 3, e.g., "Real-time analytics capability"]

Phase 3 - Optimization (Q1-Q2 2024):

Objectives:

- [Objective 1, e.g., "Complete service migration"]
- [Objective 2, e.g., "Enhance observability"]
- [Objective 3, e.g., "Implement advanced security"]

Key Deliverables:

- [Deliverable 1, e.g., "Remaining services migrated"]
- [Deliverable 2, e.g., "Comprehensive monitoring"]
- [Deliverable 3, e.g., "Zero-trust security model"]

Success Criteria:

- [Criteria 1, e.g., "100% of functionality in microservices"]
- [Criteria 2, e.g., "End-to-

end tracing for all transactions"]

- [Criteria 3, e.g., "Security compliance automation"]

8 Technology Selection Framework

Selection Criteria:

Business Alignment:

- [Criteria 1, e.g., "Supports key business capabilities"]
- [Criteria 2, e.g., "Aligns with growth projections"]
- [Criteria 3, e.g., "Cost-effective scaling"]

Technical Fit:

- [Criteria 1, e.g., "Compatibility with existing systems"]
- [Criteria 2, e.g., "Alignment with architectural principles"]
- [Criteria 3, e.g., "Support for non-functional requirements"]

Operational Readiness:

- [Criteria 1, e.g., "Team skills and knowledge"]
- [Criteria 2, e.g., "Support and community"]
- [Criteria 3, e.g., "Maturity and stability"]

Current Technology Choices:

Infrastructure:

- [Choice 1, e.g., "AWS for cloud infrastructure"]

Rationale: [Reasons for selection]

Alternatives: [Other options considered]

Application:

- [Choice 1, e.g., "Spring Boot for backend services"]
- Rationale:** [Reasons for selection]
- Alternatives:** [Other options considered]

Data:

- [Choice 1, e.g., "PostgreSQL for operational data"]
- Rationale:** [Reasons for selection]
- Alternatives:** [Other options considered]

Integration:

- [Choice 1, e.g., "Kafka for event streaming"]
- Rationale:** [Reasons for selection]
- Alternatives:** [Other options considered]

9 Architecture Governance

Decision Process:

- **Request:** [How architecture change requests are submitted]
- **Review:** [Review and approval process]
- **Documentation:** [How decisions are recorded]
- **Communication:** [How decisions are communicated]

Architecture Review Board:

- Purpose:** [Role of the ARB]
- Members:** [Key participants]
- Meeting Cadence:** [Frequency of meetings]
- Escalation Path:** [Process for escalating issues]

Compliance:

- Standards:** [Technical standards to follow]
- Verification:** [How compliance is verified]
- Exemption:** [Process for requesting exemptions]
- Reporting:** [Compliance reporting approach]

10 Risk Assessment

Risk	Impact	Likelihood	Mitigation
[Risk description]	[High/medium/Low]	[High/medium/Low]	[Mitigation strategy]
[Risk description]	[High/medium/Low]	[High/medium/Low]	[Mitigation strategy]
[Risk description]	[High/medium/Low]	[High/medium/Low]	[Mitigation strategy]

11 Innovation Opportunities

Emerging Technologies:

- [Technology 1, e.g., "Machine Learning"]:
- Potential Impact:** [Business impact]
- Readiness:** [Organizational readiness]
- Exploration Strategy:** [Approach to evaluating]
- [Technology 2, e.g., "Blockchain"]:

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        Potential Impact: [Business impact]

        Readiness: [Organizational readiness]

        Exploration Strategy: [Approach to evaluating]

Research Initiatives:
    - [Initiative 1, e.g., "Customer Behavior Analytics"]:
        Purpose: [Business objective]
        Approach: [Technical approach]
        Timeline: [Expected timeframe]

    - [Initiative 2, e.g., "DevOps Optimization"]:
        Purpose: [Business objective]
        Approach: [Technical approach]
        Timeline: [Expected timeframe]

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12 Future-Proofing Strategy

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Adaptability:
    - [Strategy 1, e.g., "API-first design"]:
        Purpose: [How it enhances adaptability]
        Implementation: [How it's implemented]

    - [Strategy 2, e.g., "Modular architecture"]:
        Purpose: [How it enhances adaptability]
        Implementation: [How it's implemented]

Scalability:
    - [Strategy 1, e.g., "Horizontal scaling"]:
        Purpose: [How it enhances scalability]
        Implementation: [How it's

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implemented]

    - [Strategy 2, e.g., "Database sharding"]:
        Purpose: [How it enhances scalability]
        Implementation: [How it's implemented]

Resilience:
    - [Strategy 1, e.g., "Multi-region deployment"]:
        Purpose: [How it enhances resilience]
        Implementation: [How it's implemented]

    - [Strategy 2, e.g., "Circuit breakers"]:
        Purpose: [How it enhances resilience]
        Implementation: [How it's implemented]

```

13 Template Validation Checklist

- ☐ Strategic context defined
- ☐ Architecture principles established
- ☐ Target architecture vision articulated
- ☐ Technology roadmap developed
- ☐ Evolution strategy outlined
- ☐ Technology selection framework documented
- ☐ Governance approach described
- ☐ Risks assessed
- ☐ Innovation opportunities identified
- ☐ Team review completed

14 Related Views

- System Context - System boundaries
- Logical Architecture - System structure

- Infrastructure Architecture - Infrastructure approach