Sample Architecture Document

# Executive Summary

This document outlines the architecture for a high-availability, scalable system designed to meet enterprise requirements.

# Business Requirements

**The system must support:**  
• High availability (99.9% uptime)  
• Scalable architecture  
• Security compliance  
• Cost optimization

# Technical Requirements

**Technical specifications include:**  
• Microservices architecture  
• RESTful APIs  
• Database clustering  
• Load balancing

# Security Considerations

**Security measures must include:**  
• Authentication and authorization  
• Data encryption at rest and in transit  
• Network security and firewalls  
• Regular security audits

# System Components

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| --- | --- | --- |
| Component | Technology | Purpose |
| Frontend | React.js | User interface |
| Backend | Node.js | Business logic |
| Database | PostgreSQL | Data storage |
| Cache | Redis | Performance optimization |
| Load Balancer | Nginx | Traffic distribution |