

ERP IT Infrastructure Scalability Assessment Checklist 2026

Compute & Processing Capacity

Evaluation of CPU, RAM, and processing power availability to handle increasing transaction volumes and concurrent user growth.

Current CPU Utilization Peak (%)

Write something...

Projected Annual Growth Rate (%)

Enter a number...

Current Compute Environment Type

- ☐ On-Premise Bare Metal
- ☐ Virtual Machines (VMware/Hyper-V)
- ☐ Public Cloud (AWS/Azure/GCP)
- ☐ Hybrid Infrastructure

Scaling Bottleneck Risks

- ☐ CPU Saturation
- ☐ RAM/Memory Exhaustion
- ☐ I/O Wait Times
- ☐ Insufficient Threading/Concurrency

Mitigation Strategy for Capacity Shortfalls

Write something...

Infrastructure Performance Report

 Upload File

Storage & Data Expansion Requirements

Assessment of disk space, IOPS (Input/Output Operations Per Second), and long-term growth projections for database and unstructured data.

Current Storage Utilization (TB)

Enter a number...

Projected 3-Year Growth Rate (%)

Enter a number...

Primary Storage Architecture

- ☐ On-Premises SAN/NAS
- ☐ Cloud-Native Object Storage
- ☐ Hybrid Cloud Storage
- ☐ Hyper-Converged Infrastructure (HCI)

Storage Redundancy Methods

- ☐ RAID Configuration
- ☐ Erasure Coding
- ☐ Geographic Replication
- ☐ Snapshot-based Backups

Data Retention & Archiving Strategy

Write something...

Storage Capacity Forecast Report

 Upload File

Network Bandwidth & Latency Optimization

Review of network throughput, latency thresholds, and connectivity reliability for distributed global offices and remote endpoints.

Current Network Throughput (Mbps/Gbps)

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Average Network Latency (ms)

Enter a number...

Primary Connection Type

- ☐ Dedicated Fiber
- ☐ SD-WAN
- ☐ MPLS
- ☐ Broadband/Public Internet
- ☐ Satellite

Identified Bandwidth Bottlenecks

- ☐ Saturated Uplink
- ☐ High Packet Loss
- ☐ VPN Overhead
- ☐ Hardware Congestion
- ☐ DNS Latency

Latency Mitigation Strategy

Write something...

Network Topology Diagram

 Upload File

Database Scalability & Performance

Audit of database indexing, partitioning strategies, and the ability of the RDBMS to handle expanding datasets without performance degradation.

Database Partitioning & Sharding Strategy

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Current Database Growth Rate (GB/Month)

Enter a number...

Primary Database Architecture Type

- ☐ Relational (RDBMS)
- ☐ NoSQL
- ☐ Distributed/NewSQL
- ☐ Hybrid

Performance Optimization Techniques Implemented

- ☐ Indexing
- ☐ Query Optimization
- ☐ Read Replicas
- ☐ Caching (e.g., Redis/Memcached)
- ☐ Database Archiving

Recent Database Performance Benchmark Report

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Next Scheduled Database Maintenance Window

Enter date...

Cloud & Hybrid Infrastructure Elasticity

Verification of auto-scaling capabilities, load balancing efficiency, and the ability to dynamically provision resources during peak loads.

Primary Infrastructure Deployment Model

- ☐ Public Cloud
- ☐
- ☐ Hybrid Cloud
- ☐ On-Premises

Auto-scaling Configuration Overview

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Target Peak User Capacity (Projected)

Enter a number...

Elasticity Features Currently Implemented

- ☐ Auto-scaling Groups
- ☐ Load Balancing
- ☐ Serverless Functions
- ☐ Content Delivery Network (CDN)
- ☐ Dynamic Resource Provisioning

Infrastructure Scalability Architecture Diagram

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Disaster Recovery & High Availability (HA) Architecture

Review of failover mechanisms, redundancy levels, and the scalability of backup systems to maintain uptime during infrastructure expansion.

Current Failover Strategy

- ☐ Active-Passive
- ☐ Active-Active
- ☐ Cold Standby
- ☐ Multi-Region / Geo-Redundant

Target Recovery Time Objective (RTO) in Minutes

Enter a number...

Target Recovery Point Objective (RPO) in Minutes

Enter a number...

Redundancy Components Verified

- ☐ Database Mirroring/Replication
- ☐ Load Balancer Redundancy
- ☐ Storage Replication
- ☐ Network Path Redundancy
- ☐ Power Supply Redundancy (UPS/Generator)

Date of Last Disaster Recovery Drill

Enter date...

Identified Infrastructure Vulnerabilities

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Disaster Recovery Plan (DRP) Documentation

 Upload File

Infrastructure Architect Approval

Integration & API Throughability

Assessment of the infrastructure's ability to handle increased API calls and third-party middleware traffic as the ecosystem expands.

Primary Integration Architecture Type

- ☐ RESTful APIs
- ☐ SOAP Web Services
- ☐ EDI (Electronic Data Interchange)
- ☐ Flat File / SFTP Transfers
- ☐ Event-Driven / Webhooks

Current Peak API Requests Per Minute (RPM)

Enter a number...

Integrated Third-Party Systems

- ☐ CRM (Customer Relationship Management)
- ☐ SCM (Supply Chain Management)
- ☐ Banking/Payment Gateways
- ☐ E-commerce Platforms
- ☐ Warehouse Management Systems (WMS)
- ☐ Human Capital Management (HCM)

API Throughput Bottleneck Assessment

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API Documentation & Mapping Schemas

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Last Integration Scalability Audit Date

Enter date...

Security & Perimeter Scalability

Evaluation of whether security layers, such as WAFs, firewalls, and IDS/IPS, can scale alongside increased traffic and user complexity.

Active Security Layers

- ☐ Web Application Firewall (WAF)
- ☐ Intrusion Detection/Prevention System (IDS/IPS)
- ☐ DDoS Protection Service
- ☐ API Gateway Security
- ☐ Zero Trust Network Access (ZTNA)

Security Scaling Bottlenecks

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Max Concurrent Connection Threshold

Enter a number...

Security Inspection Method

- ☐ In-line Inspection
- ☐ Out-of-band Inspection
- ☐ Agent-based Inspection

Security Architecture Diagram

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Last Security Perimeter Audit Date

Enter date...

Monitoring & Observability Framework

Assessment of real-time monitoring tools, log management scalability, and the capacity to ingest increased telemetry data.

Monitored Infrastructure Components

- ☐ CPU Utilization
- ☐ Memory Usage
- ☐ Disk I/O & Storage Latency
- ☐ Network Throughput
- ☐ Application Response Time
- ☐ Database Query Performance

Alerting Threshold Severity Level

- ☐ Critical - Immediate Action Required
- ☐ Warning - Investigation Needed
- ☐ Info - Log for Trend Analysis

Current Alert Response Time (Minutes)

Enter a number...

Observability Gaps & Identified Risks

Write something...

Current Monitoring Configuration Documentation

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Last Monitoring Audit Date

Enter date...

Infrastructure Architect Approval

Cost Management & Resource Efficiency

Review of the financial scalability of the infrastructure, focusing on unit cost trends and preventing uncontrolled cloud/hardware spend.

Current Monthly Infrastructure Spend

Enter a number...

Projected Annual Budget Increase (%)

Enter a number...

Cost Optimization Strategy

- ☐ On-demand scaling
- ☐ Reserved Instances / Committed Use
- ☐ Fixed Capacity
- ☐ Hybrid Scaling

Cost Leakage Risk Areas

- ☐ Unused/Zombie Resources
- ☐ Over-provisioned Instances
- ☐ Data Egress Fees
- ☐ Unmanaged Storage
- ☐ License Overages

Budgetary Risk Assessment

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Infrastructure Cost Report

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🏁 Finish

🔧 Generate Sample Report