

## Problems w/ Servers

### Organizational Oversight

Lack of understanding infrastructure importance

Focus on front-end visibility.

Poor communication b/w developers and operators.

Inadequate budgeting for maintenance.

Missing a roadmap for a long-term vision.

### Technical Debt

Outdated servers are still used.

No scalable architecture.

Poor API designs.

Lack of redundancy & failover systems.

Hard-coded configs that prohibit that limit flexibility

### Security Gaps

Unpatched vulnerabilities.

Insufficient data backup / recovery plans.

Weak monitoring & alert system.

Overlooked authentication measures.

Poor logging practices.

### Business Impact

Service downtime = revenue loss

Customers leave due to poor performance.

High emergency maintenance costs.

Damage to brand trust/reputation

Increased cost as a result of competing with other companies.

### Improvements

Introduce a “DevOps” culture w/ a CI/CD pipeline.

Regular infrastructure stress testing.

Use in-house scaling and automation.

In team training on system reliability.

Create a key performance indicator.