



ADDITIONAL TOPICS

**Building Serverless Solutions
with Azure and .NET**



Scaling and Performance Optimization

Maximizing Efficiency in Serverless Solutions



Scaling in Serverless

**Concurrency
Management**

**Provisioned
Concurrency**

Cold Starts



Optimizing Performance

**Efficient Code
Design**

**Resource
Allocation**

**Managing
Dependencies**

Data Handling

**Monitoring and
Logging**

**Cold Start
Mitigation**



Efficient Code Design

Lightweight Functions

Minimize Dependencies

Reduce Execution Time



Resource Allocation

Allocate appropriate memory and CPU

Balance performance and cost



Managing Dependencies

Bundle only necessary libraries

Use Dependency Injection



Data Handling

Optimize data retrieval and storage

Implement caching strategies

Prefer asynchronous processing



Monitoring and Logging

Use built-in monitoring tools

Implement structured logging



Cold Start Mitigation

Use provisioned concurrency

Leverage function warming strategies



Best Practices

Use Auto-Scaling Features

Test Thoroughly

Cost Management



Conclusion

- Scaling and performance optimization are key for fast, reliable, cost-effective applications
- Implement best practices for efficient serverless applications.