AWS Well-Architected Framework

The Five Pillars of the Framework

Operational Excellence
- Best Practices
  - Organization
  - Prepare
  - Operate
  - Evolve
- Design Principles
  - Perform operations as code
  - Make frequent, small, reversible changes
  - Refine operations procedures frequently

Security
- Best Practices
  - Security
  - Identity and Access Management
  - Detection
  - Infrastructure Protection
  - Data Protection
  - Incident Response
- Design Principles
  - Implement a strong identity foundation
  - Enable traceability
  - Apply security at all layers
  - Automate security best practices
  - Protect data in transit and at rest

Reliabiliy
- Best Practices
  - Foundations
  - Workload Architecture
  - Change Management
  - Failure Management
- Design Principles
  - Automatically recover from failure
  - Test recovery procedures
  - Scale horizontally to increase aggregate workload availability
  - Stop guessing capacity
  - Manage change in automation

Cost Optimization
- Best Practices
  - Practice cloud financial management
  - Expenditure and usage awareness
  - Cost-effective resources
  - Manage demand and supply resources
  - Optimize over time
- Design Principles
  - Implement cloud Financial Managment
  - Adopt a consumption model
  - Measure overall efficiency
  - Stop spending money on undifferentiated heavy lifting
  - Analyse and attributs expenditure

Performance Efficiency
- Best Practices
  - Select
  - Review
  - Monitor
  - Tradeoffs
- Design Principles
  - Democratize advanced technologies
  - Go global in minutes
  - Use server less architectures
  - Experiment more often
  - Consider mechanical sympathy

Author: Michael DeMarco