Welcome to Global Azure Portugal 2024

Azure User Group Portugal

20 Apr - www.globalazure.pt

Microsoft Portugal - Lisbon

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Welcome to Global Azure Portugal 2024

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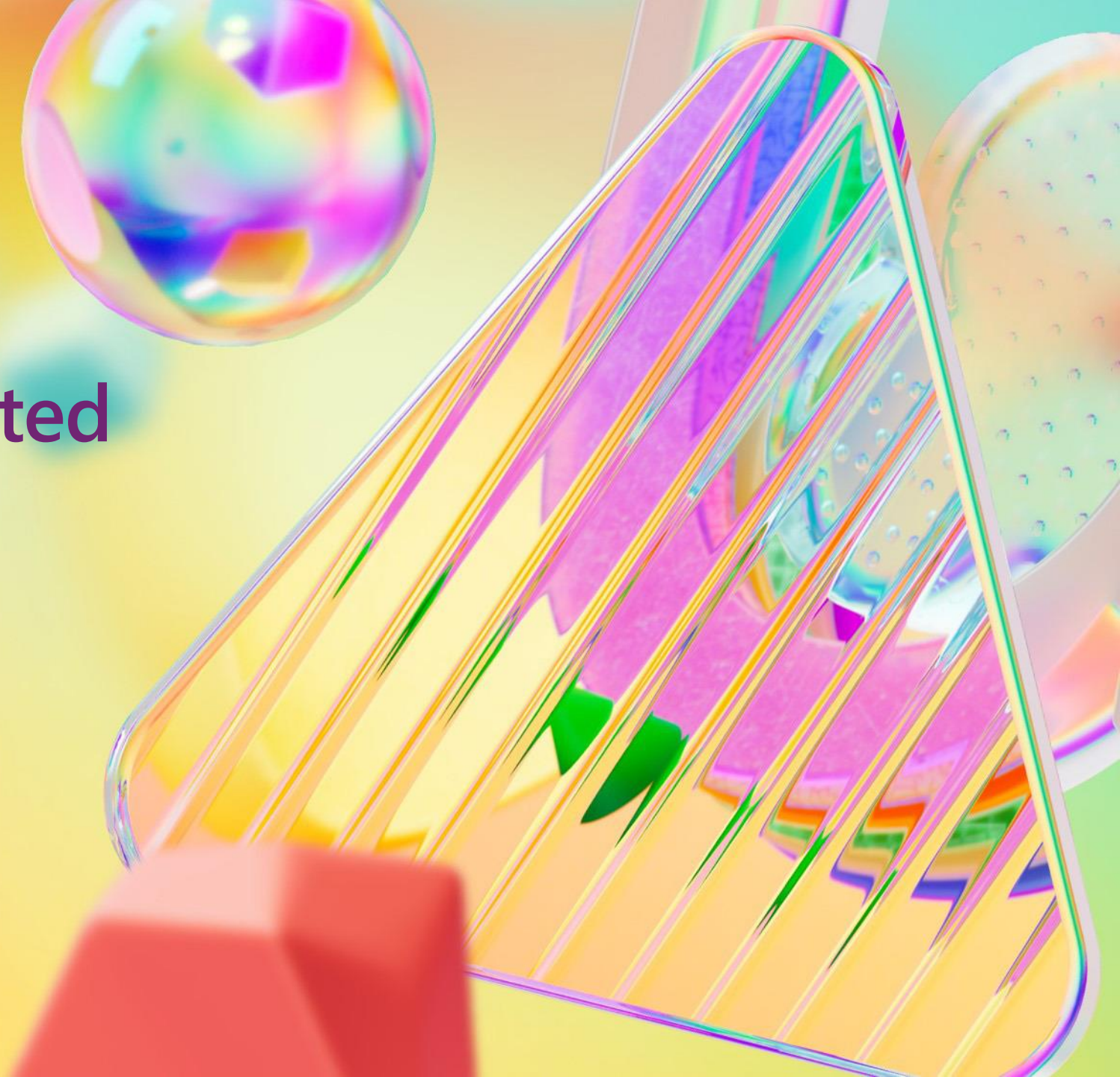
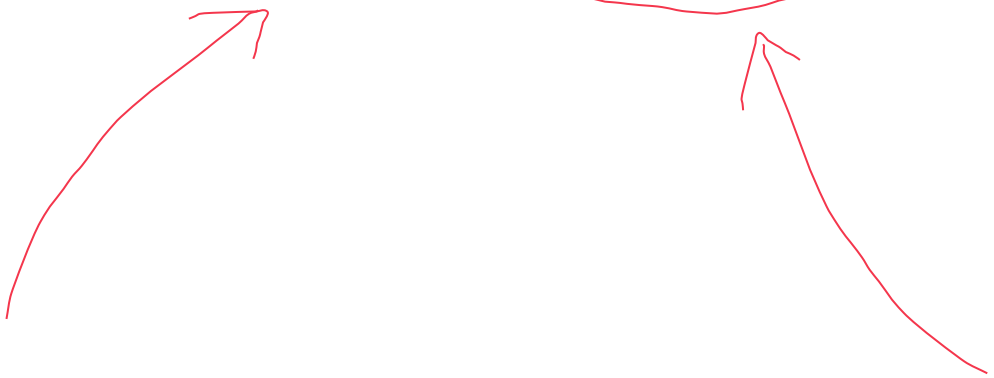
A Quest for the Azure Well-Architected Framework

Filipe Teixeira – Technical Consultant



Thank you for coming to a session that doesn’t have AI or Copilot in the slides.



What is this session not about

- Tutorial on how to design your application
- Lesson on Cloud Architecture
- The Workload Silver Bullet

What is this session about

- Documentation
- Tools
- Templates
- Best Practices

Acronyms

Azure Cloud Adoption Framework

Organization → Path to Cloud

Azure Well-Architected Framework

Workload →

Design
Build
Optimize
Review

Well-Architected Framework

Build and manage high-performing workloads

Build workloads with confidence with proven best practices

Design high-performing workloads using deep technical guidance

Optimize workloads with actionable focus areas

Well-Architected Framework

Overcoming workload quality inhibitors

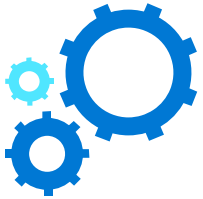
Cost Optimization

- No cost and usage monitoring
- Unclear on underused or orphaned resources
- Lack of structure billing management
- Budget reductions due to lack of support for cloud adoption by LT/board

Operational Excellence

- Lack of rapid issue identification
- No deployment automation
- Absence of communication mechanisms and dashboards
- Unclear expectations and business outcomes
- No visibility on root cause for events

Performance Efficiency



- No monitoring new services
- No monitoring current workloads health
- No design for scaling
- Lack of rigor and guidance for technology and architecture selection

Reliability

- Unclear on resiliency features/capabilities for better architecture design
- Lack of data back up practices
- No monitoring current workloads health
- No resiliency testing
- No support for disaster recovery

Security

- No access control mechanism (authentication)
- No security threat detection mechanism
- Lack of security threat response plan
- No encryption process

Well-Architected Framework

Overcoming workload quality inhibitors

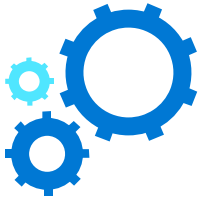
Cost Optimization

- Azure Hybrid Benefit
- Reserve Instances
- Shutdown
- Resize
- Move to PAAS

Operational Excellence

- DevOps
- Deployment
- Monitor
- Processes and cadence

Performance Efficiency



- Design for scaling
- Monitor performance

Reliability

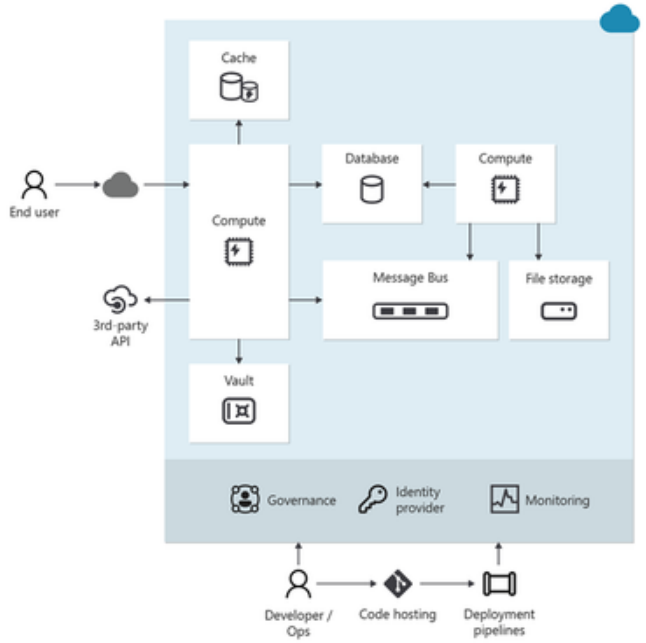
- Define requirements
- Test with simulations and forced failovers
- Deploy consistently
- Monitor health
- Respond to failure and disaster

Security

- Identity and access management
- Infra protection
- App security
- Data encryption and sovereignty
- Security operations

Well-Architected Framework

Achieving Workload Maturity

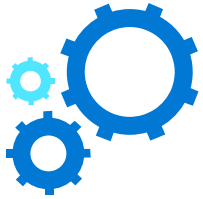


The term workload in the context of the Well-Architected Framework refers to a collection of application resources, data, and supporting infrastructure that function together towards a defined business goal.

Well-Architected Framework

Technology Oriented Approach

Performance Efficiency



Reliability

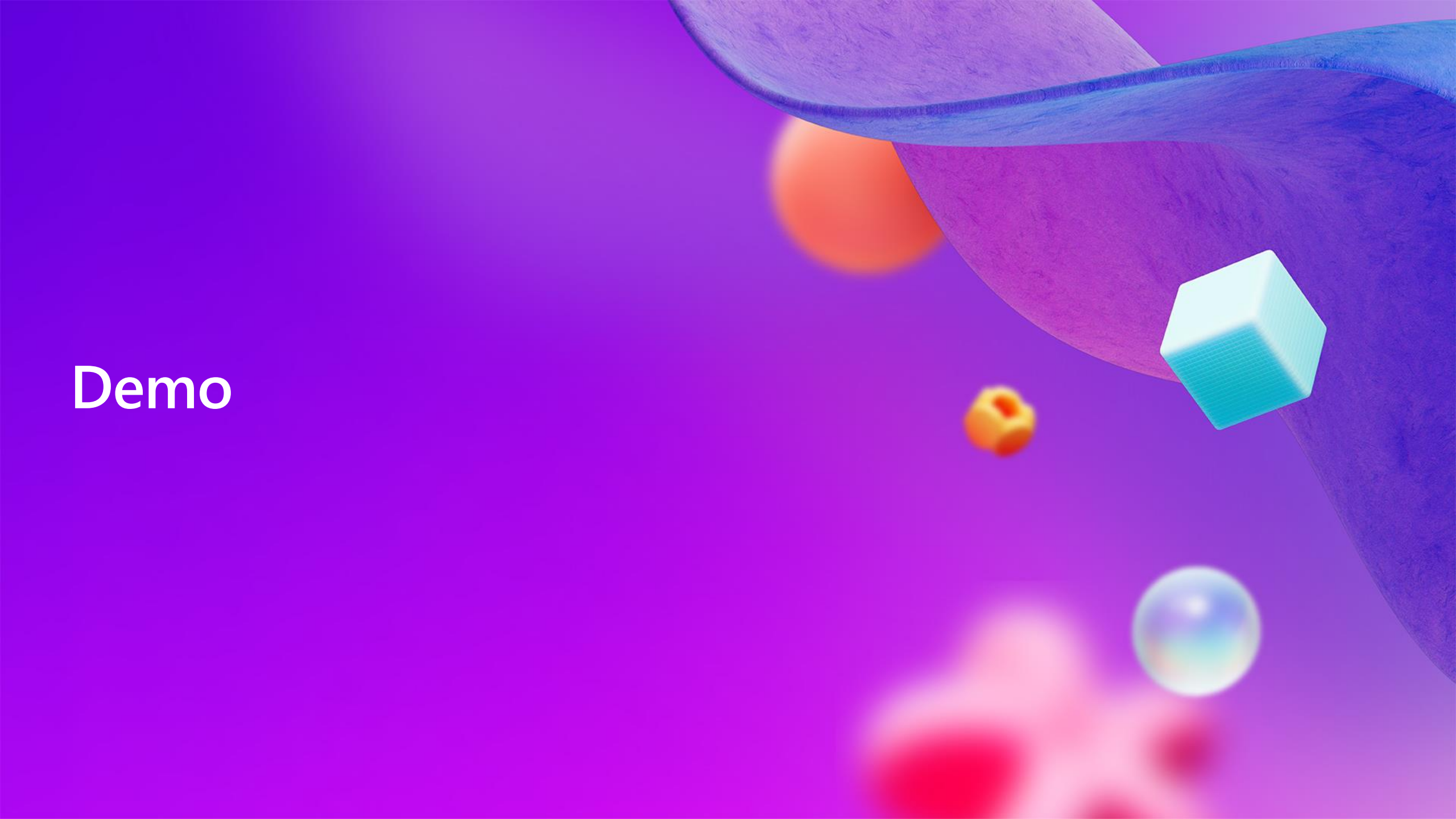
Security

Cost Optimization

Operational Excellence

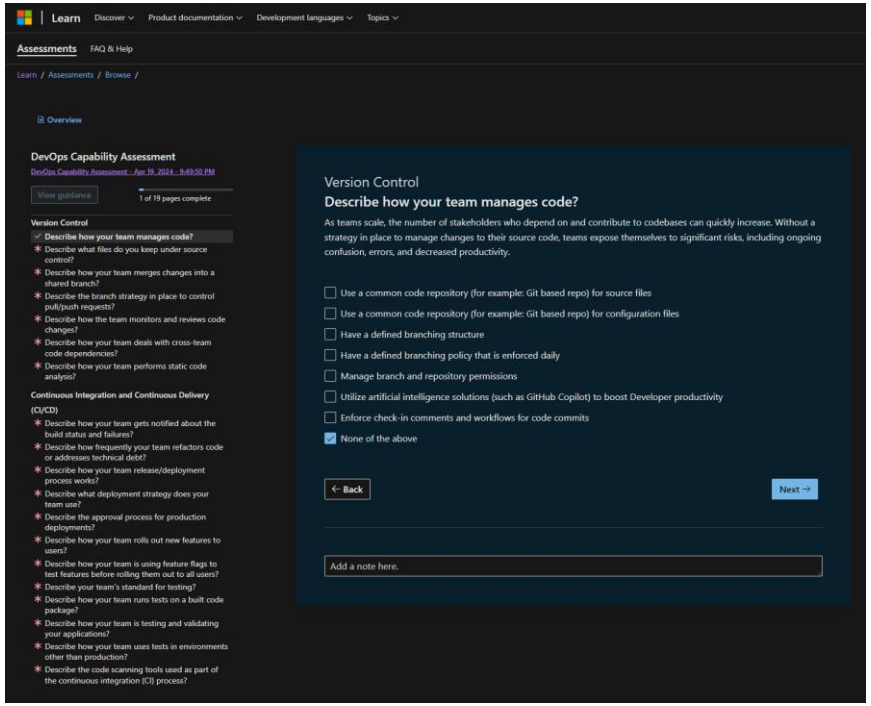
Azure Resource

Demo



Well-Architected Framework

Assessing your current state



Examine the reliability, security, cost optimization, operational excellence, and performance efficiency of your workload's design. Use the Azure Well-Architected Framework's recommendations to improve your workload.

Resources

What are my Resources?

- Azure WAF Documentation
- Microsoft Learn – Azure WAF Edition
- Azure Architecture Center
- Azure Architecture Blog
- Azure Verified Modules

Last updates: What's new in the Well-Architected Framework | Microsoft Learn

Q&A

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Thank you

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