

Welcome to

Global Azure Portugal

2024



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 Microsoft Portugal - Lisbon



Welcome to

Global Azure Portugal

2024



Session Title

Speaker Name



Location



Azure User Group
Portugal

Diamond



Gold



Silver



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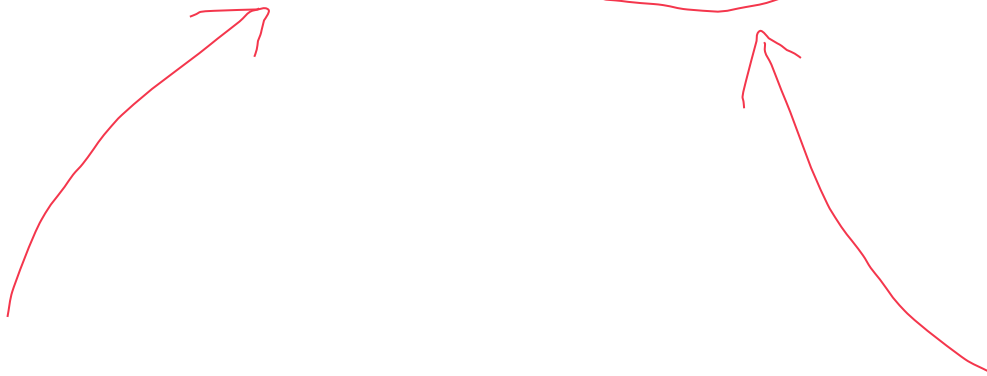




A Quest for the Azure Well-Architected Framework

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

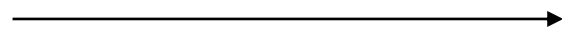


Acronyms



Azure Cloud Adoption Framework

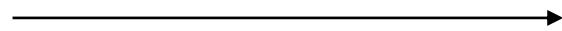
Organization



Path to Cloud

Azure Well-Architected Framework

Workload



Design
Build
Optimize
Review



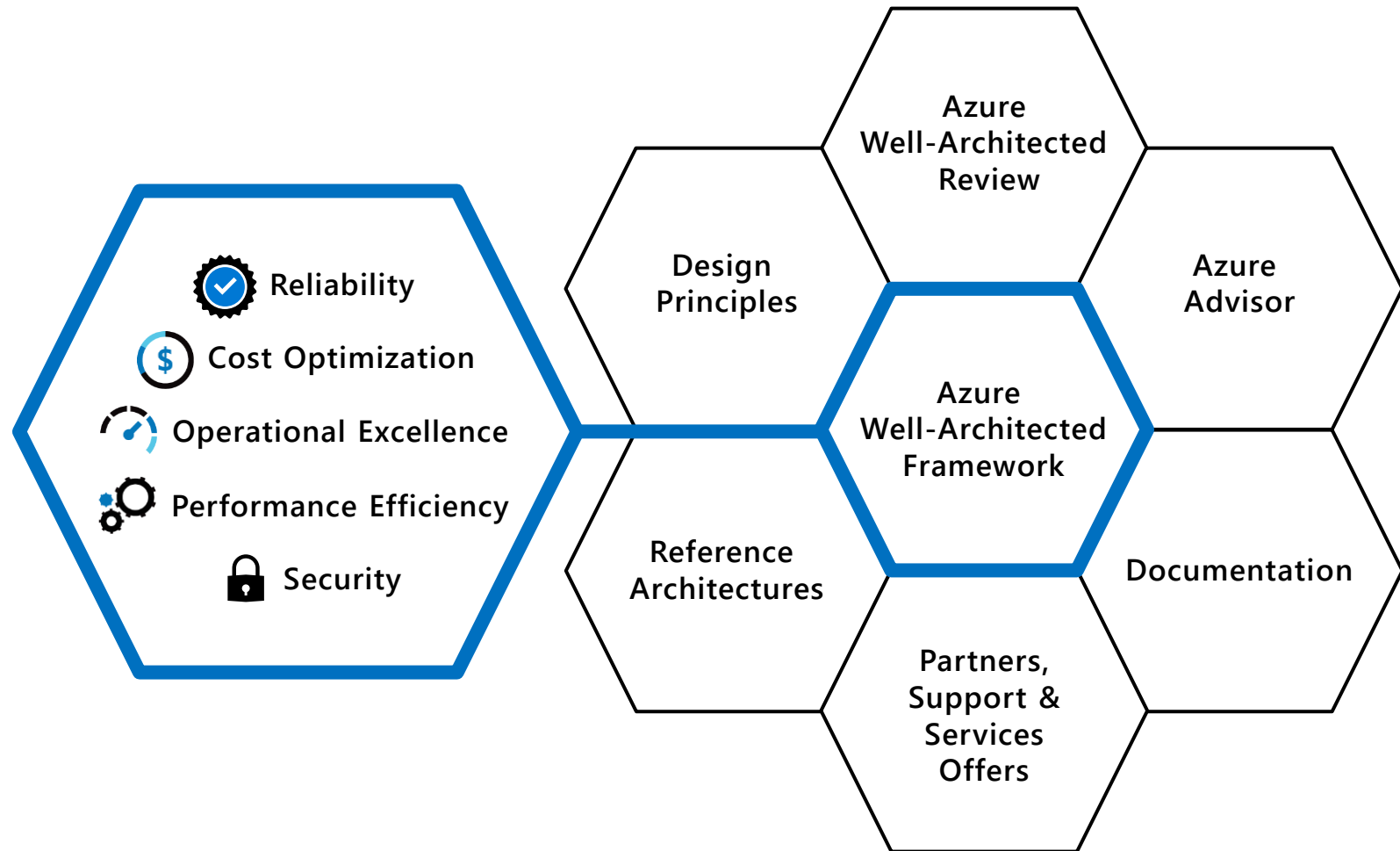
Well-Architected Framework

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



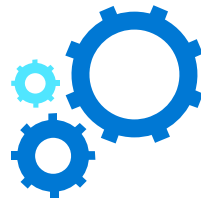
- No cost and usage monitoring
- Unclear on underused or orphaned resources
- Lack of structure billing management
- Budget reductions due to lack of support for cloud adoption by LT/board

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



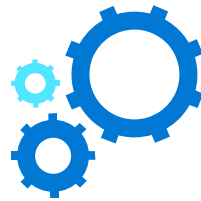
- Azure Hybrid Benefit
- Reserve Instances
- Shutdown
- Resize
- Move to PAAS

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

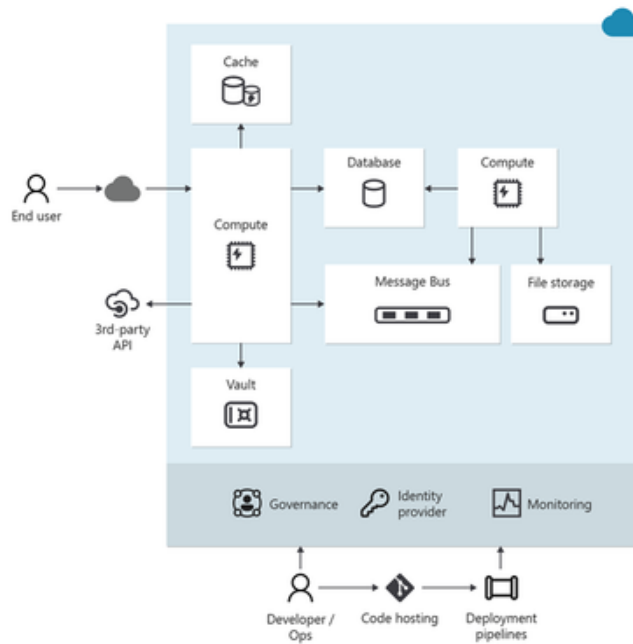
Security



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

Well-Architected Framework

Achieving Workload Maturity

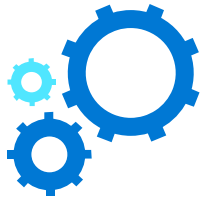


The term workload in the context of the Well-Architected Framework refers to a collection of application resources, data, and supporting infrastructure that function together towards a defined business goal.

Well-Architected Framework

Technology Oriented Approach

**Performance
Efficiency**



Reliability



Security



**Cost
Optimization**



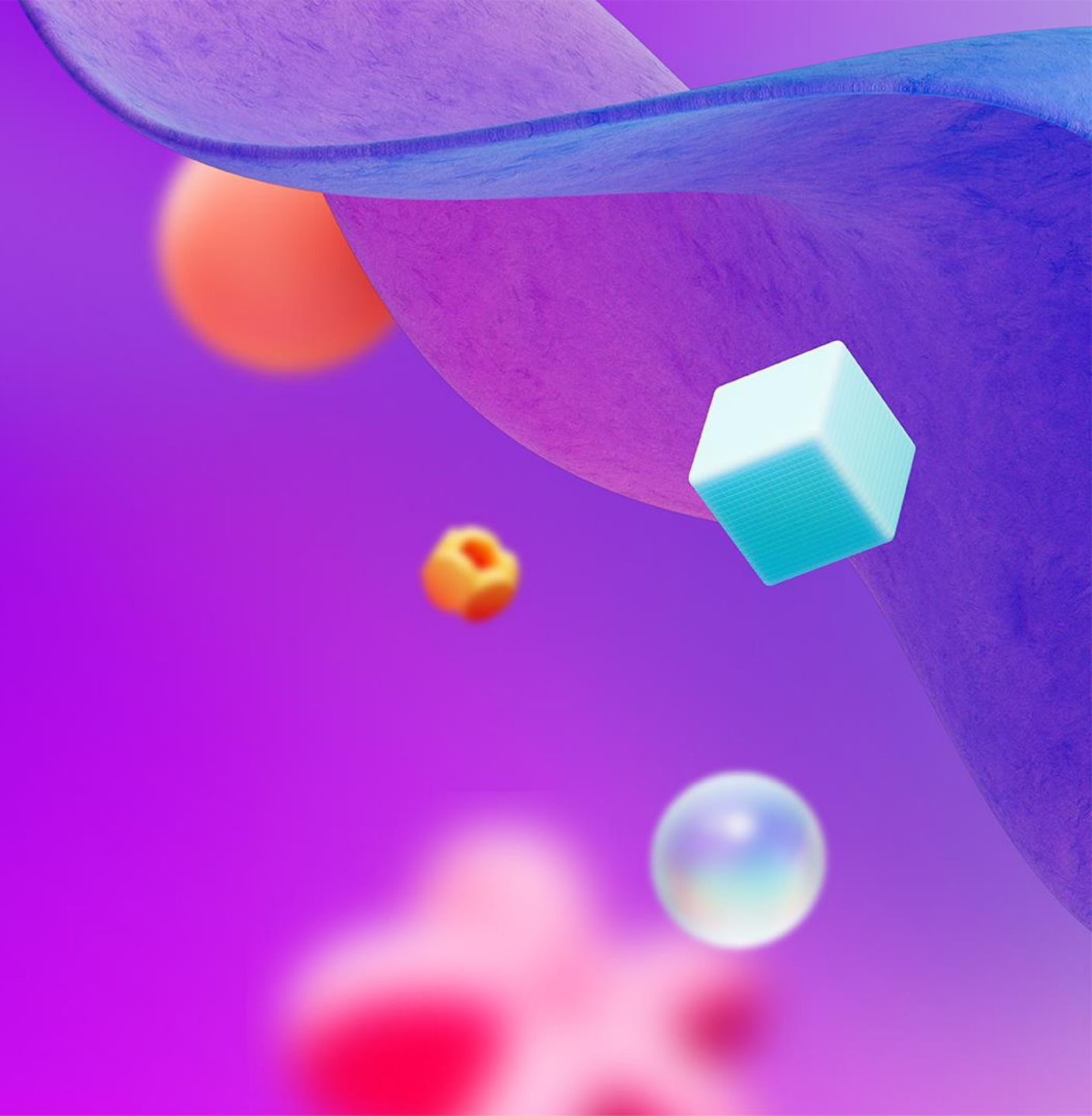
**Operational
Excellence**



Azure Resource



Demo



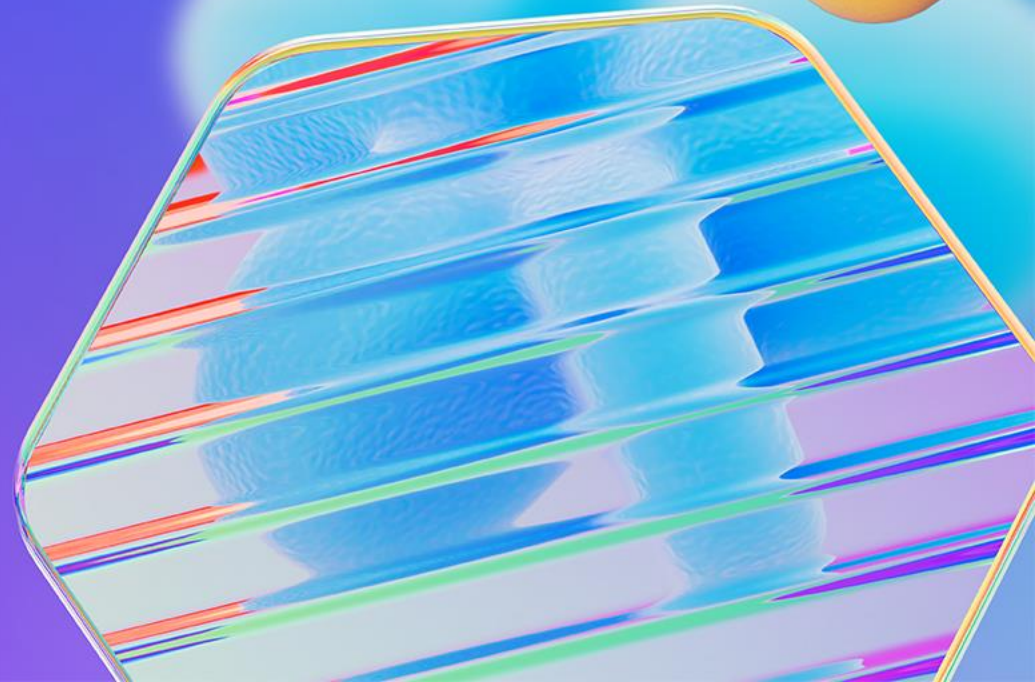
Well-Architected Framework

Assessing your current state

The screenshot shows the 'DevOps Capability Assessment' interface. The main heading is 'Version Control' with the sub-heading 'Describe how your team manages code?'. Below this, there is a paragraph explaining that as teams scale, the number of stakeholders who depend on and contribute to codebases can increase, leading to risks like confusion, errors, and decreased productivity. A list of seven checkboxes follows, with the last option, 'None of the above', selected. The options are: 'Use a common code repository (for example: Git based repo) for source files', 'Use a common code repository (for example: Git based repo) for configuration files', 'Have a defined branching structure', 'Have a defined branching policy that is enforced daily', 'Manage branch and repository permissions', 'Utilize artificial intelligence solutions (such as GitHub Copilot) to boost Developer productivity', and 'Enforce check-in comments and workflows for code commits'. Navigation buttons for 'Back' and 'Next' are visible. On the left, a sidebar lists various assessment categories, with 'Version Control' currently selected. At the bottom of the sidebar, there is a text input field labeled 'Add a note here.'

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

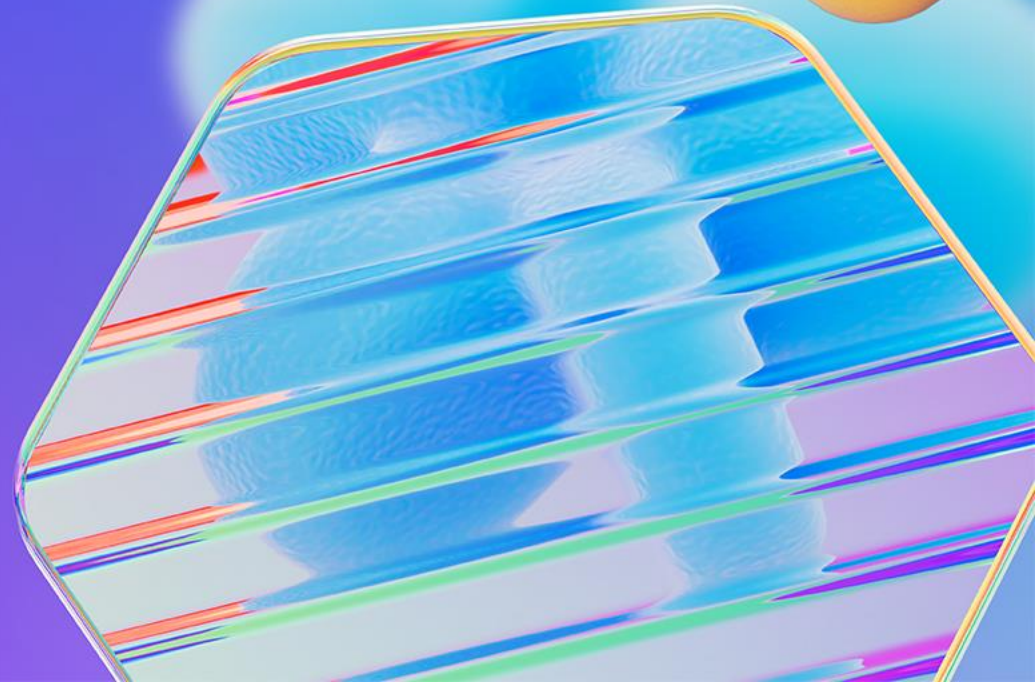


What are my Resources?

- [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





Thank you



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