



Architecting for the Cloud

Lessons Learned from Real-World Deployments



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Cloud
Community
Champion (2020)

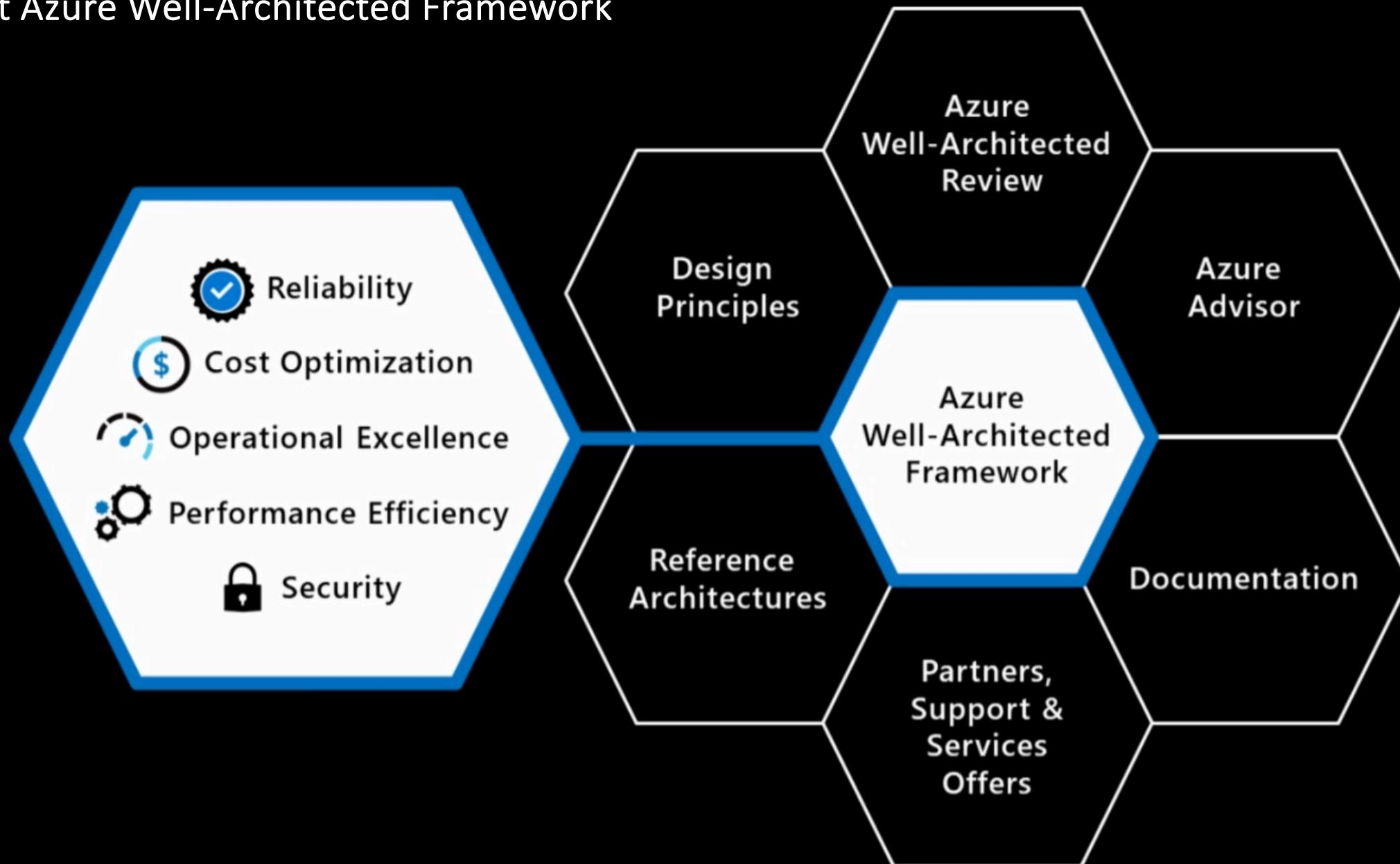


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Microsoft Azure Well-Architected Framework



Azure Well-Architected Review

Assessments FAQ & Help

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MICROSOFT ASSESSMENTS

Azure Well-Architected Review

Examine your workload through the lenses of reliability, cost management, operational excellence, security and performance efficiency.

[Start Assessment](#)



Length of assessment

60 minutes



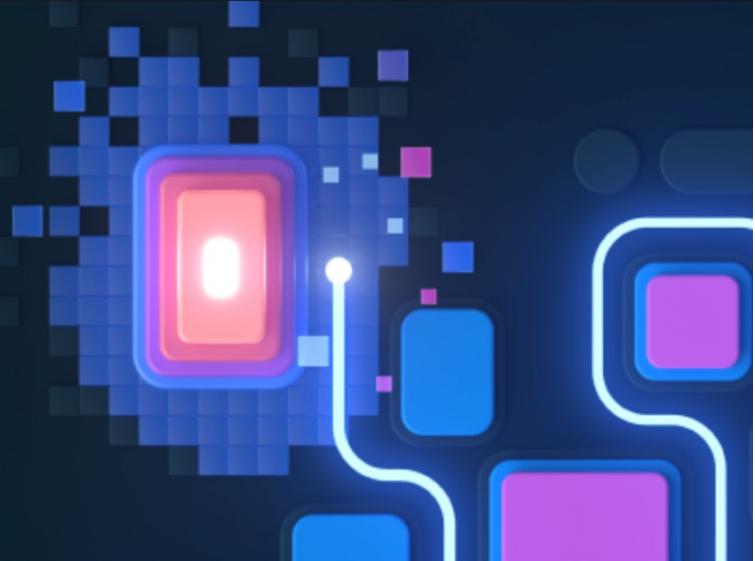
Format

Multiple choice and multiple response questions.



Results

Receive curated and personalized guidance that fits your specific scenarios.



<https://learn.microsoft.com/en-gb/assessments/azure-architecture-review/>

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Overview

Azure Well-Architected Review

[Azure Well-Architected Review - DevnotSummit2023](#)[View guidance](#)

0 of 2 pages complete

WAF Configuration

* What workload type do you want to evaluate?

Core Pillars

* What pillars would you like to evaluate?

Azure Well-Architected Review

Examine your workload through the lenses of reliability, cost management, operational excellence, security and performance efficiency.

Assessment name *

Azure Advisor Recommendations

**Link your Azure Subscription**

to allow Azure Advisor recommendations to be included in this assessment
Not currently available for sovereign or government cloud subscriptions.

[Import](#)[Start →](#)

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Overview

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1 of 2 pages complete

WAF Configuration

What workload type do you want to evaluate?

Core Pillars

* What pillars would you like to evaluate?

WAF Configuration

What workload type do you want to evaluate?

Select an option below. For the Data Services assessment, see Data Services | Well-Architected Assessment in the Assessments Portal.

- Core Well-Architected Review
- Azure Machine Learning
- Internet of Things
- SAP On Azure (Preview)
- Azure Stack Hub (Preview)

[← Back](#)[Next →](#)

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[Overview](#) [Guidance](#)

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2 of 66 pages complete

WAF Configuration

- ✓ What workload type do you want to evaluate?

Core Pillars

- ✓ What pillars would you like to evaluate?

Reliability

- What reliability targets and metrics have you defined for your application?
- How have you ensured that your application architecture is resilient to failures?
- How have you ensured required capacity and services are available in targeted regions?
- How are you handling disaster recovery for this workload?
- What decisions have been taken to ensure the application platform meets your reliability requirements?
- What decisions have been taken to ensure the data platform meets your reliability requirements?
- How does your application logic handle exceptions and errors?
- What decisions have been taken to ensure networking and connectivity meets your reliability requirements?
- What reliability allowances for scalability and

Core Pillars

What pillars would you like to evaluate?

- Reliability
- Security
- Cost
- Operational Excellence
- Performance

[← Back](#)[Next →](#) Add a note here.

Recommendations for your workload

Actionable items to consider implementing to improve your workload across the five pillars of the Microsoft Azure Well-Architected Framework

Your overall results

CRITICAL

Room to improve. It looks like there are key items needing attention. Review the recommendations to see what actions you can take to improve your results.

CRITICAL 0-33

MODERATE 33-67

EXCELLENT 67-100

Your result:
22/100

Categories that influenced your results

Reliability



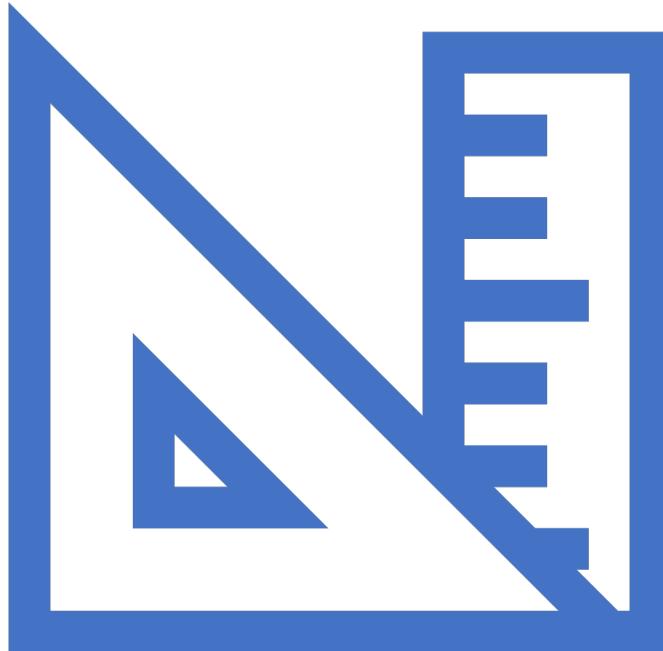
You can find out how to improve on individual categories by reviewing the recommendations below in the report.

[Export to CSV](#)

Learn how to import your CSV into Azure DevOps using a PowerShell script.

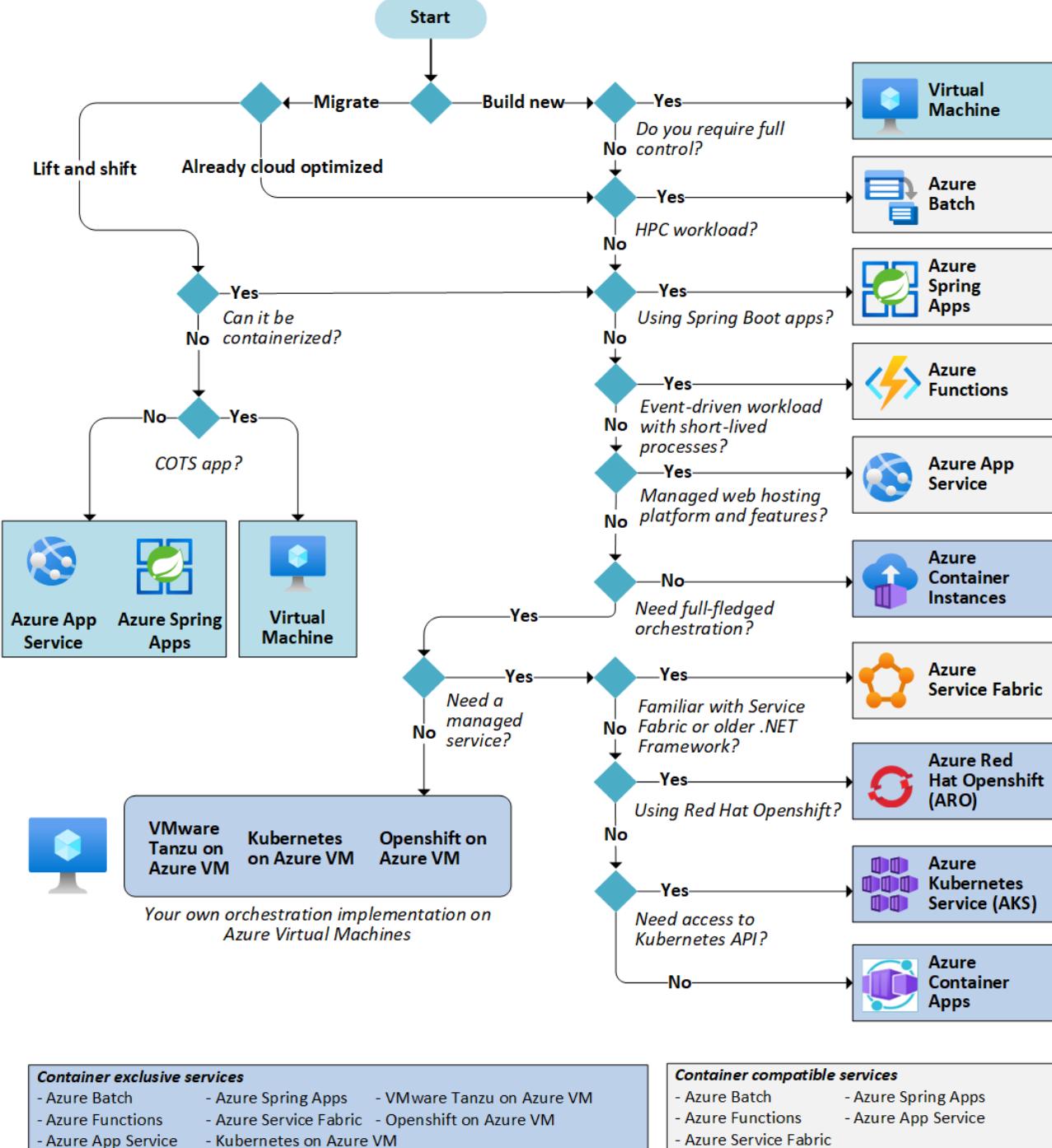
View how your workload aligns to best practices and recommendations to help you improve.

Ten design principles for Azure applications

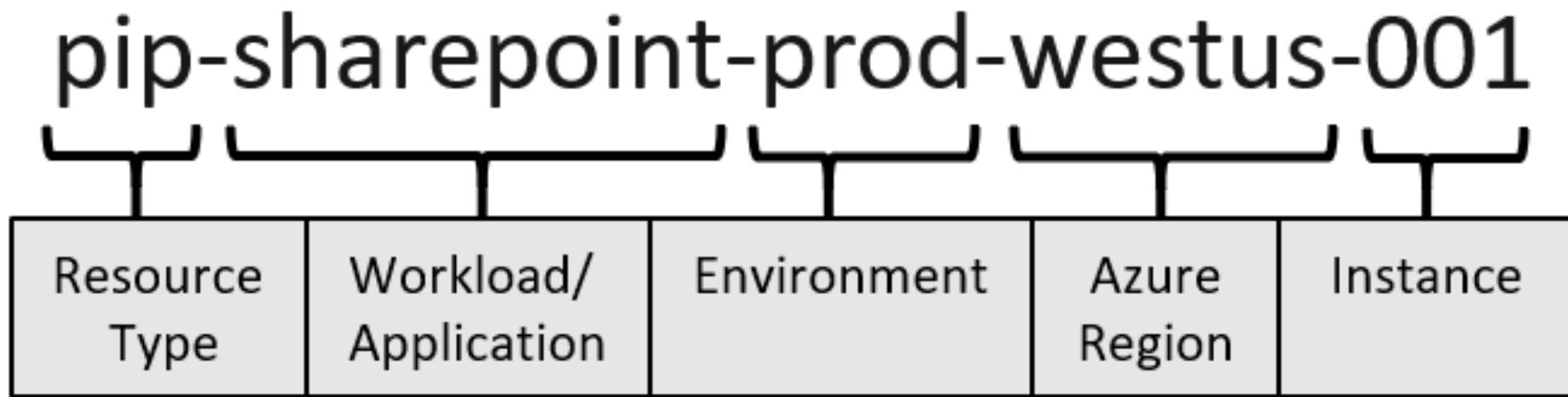


- Design for self-healing.
- Make all things redundant.
- Minimize coordination.
- Design to scale out.
- Partition around limits.
- Design for operations.
- Use managed services.
- Use an identity service.
- Design for evolution.
- Build for the needs of business.

Choose the correct service



Define your naming convention



[Home](#) > [Create a resource](#) >

Create Web App

...

[Basics](#) [Deployment](#) [Networking](#) [Monitoring](#) [Tags](#) [Review + create](#)

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups.

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ⓘ	Value ⓘ	Resource
<input type="text"/>	:	<input type="text"/> Web App

Use tags to organize your Azure resources

The background image shows the interior of a bus. The seats are upholstered in a dark blue fabric with a colorful, abstract pattern. Yellow plastic handrails are attached to the ceiling. The bus is moving, as indicated by the blurred windows and the background. The overall atmosphere is that of a public transportation vehicle.

Prevent Public
Access to Azure
Blob Storage

The background of the slide is a blurred photograph of server racks in a data center. The racks are dark grey or black, with various ports, lights, and labels visible. In the foreground, there is a large amount of bokeh light effects in shades of blue, green, and yellow.

Infrastructure as Code

Always check for misconfigurations

Azure Virtual Network (Vnet)

A photograph of a stack of books in the background, an orange notebook with a leather cover in the foreground, and a black mesh pencil holder filled with colored pencils on the right side.

Lessons Learned...



Costs come first

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Chaos Engineering with Azure Chaos Studio



“You underestimate the power of the dark side. If you will not fight, then you will meet your destiny.”

- Darth Vader

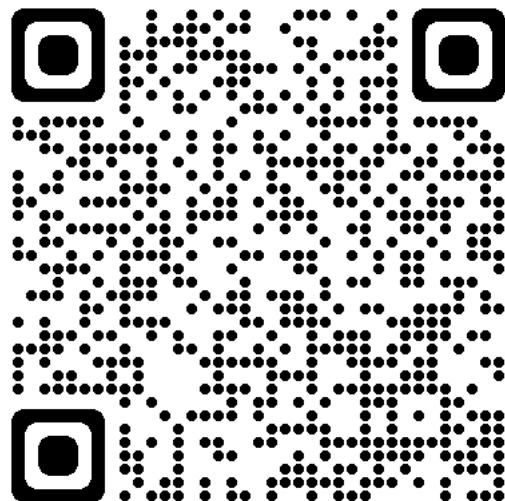


Developers,
Developers,
Developers!

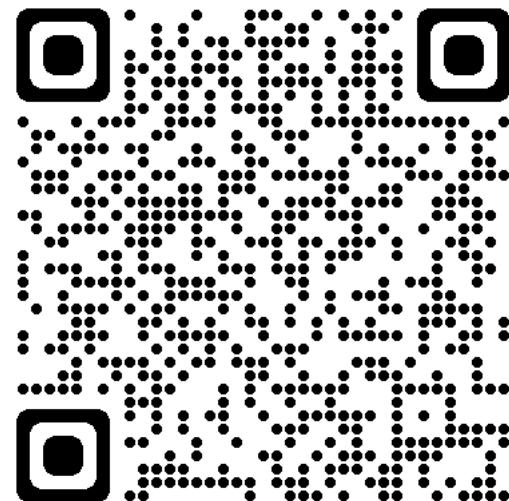


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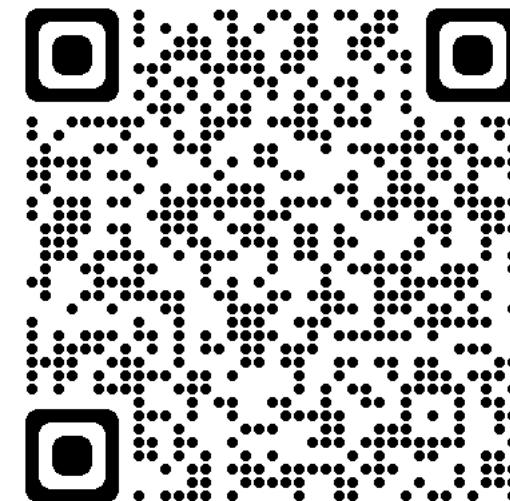
Resources



[https://learn.microsoft.com
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