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Tech Hui

November 2020

Daniel Larsen – Senior Customer Engineer – FastTrack for Azure

Application Modernization in Azure

Application modernization

in Azure

Daniel Larsen

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FastTrack for Azure

Tech Hui

November 2020


I work for Azure Engineering

← ↺ Home - Microsoft Azure


Microsoft Azure (Preview) 🔔 🔍 Search resources, services, and docs (G+ /)

✉ 📄 🔔 ⚙️ ? 😊 dalars@microsoft.com MICROSOFT


Azure services




Create a resource




Resource groups




API Management..




API Connections




Logic apps




Service Health




Recent



Event Grid Domains














Azure Cosmos DB



More services

Recent resources

Name	Type	Last Viewed
 appmod-rg	Resource group	2 days ago
 appmod-sea	App Service	3 days ago
 appmod-insights	Application Insights	3 days ago
 appmod	Front Door	4 days ago
 appmod-sea-plan	App Service plan	4 days ago
 helloprivate-rg	Resource group	6 days ago
 feedbackcreated-eus2-logic	Logic app	7 days ago
 appcompute-rg	Resource group	2 weeks ago
 helloprivate-aue-vnet	Virtual network	3 weeks ago
 helloprivate-vm	Virtual machine	3 weeks ago
 helloprivate-vm-nsg	Network security group	3 weeks ago

In this session

I. Where to start

II. Typical migration plans

III. Hosting choices

IV. Key considerations



I. Where to start



App Migration Service

Migrate to Azure App Service

Assess any app with an endpoint scan. Download the Migration Assistant and start your .NET and PHP app migration to Azure App Service.

Assess
Provide a public URL to assess to start your migration process.

Download
For internal .NET and PHP apps, download the Migration Assistant.

Start your assessment by entering a public facing endpoint to scan.

Assess your site by entering a public URL **Assess**

[Explore >](#) [Find Migration Partners](#) [Azure Migrate](#)

<https://appmigration.microsoft.com/>

Database Migration Service

The screenshot shows a web browser window with two tabs: 'Migrate to Azure App Service' and 'Azure Database Migration Service'. The address bar shows the URL <https://docs.microsoft.com/en-us/azure/dms/>. The Microsoft Docs navigation bar is visible, with 'Docs' selected. The main content area is titled 'Azure Database Migration Service documentation' and includes a description of the service. A left sidebar contains a 'Filter by title' search box and a list of navigation links. The main content area features three columns of links for 'About Azure Database Migration Service', 'Migrate SQL Server to Azure SQL Database', and 'Migrate open-source databases to Azure'.

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Filter by title

Database Migration Service documentation

- Overview
- Quickstarts
 - Create service
- Concepts
- Tutorials
 - Migrate SQL Server
 - Migrate RDS SQL Server
 - Migrate MySQL
 - Migrate RDS MySQL
 - Migrate PostgreSQL
 - Migrate Azure DB for PostgreSQL - Single Server
 - Migrate RDS PostgreSQL
 - Migrate MongoDB
 - Migrate Oracle

Azure Database Migration Service documentation

Azure Database Migration Service enables seamless migrations from multiple database sources to Azure Data platforms with minimal downtime. The service uses the Data Migration Assistant to generate assessment reports that provide recommendations to guide you through the changes required before performing a migration. When you're ready to begin the migration process, Azure Database Migration Service performs all the required steps.

About Azure Database Migration Service

OVERVIEW

[What is Azure Database Migration Service?](#)

GET STARTED

[Database migration scenario status](#)

[Overview of prerequisites](#)

Migrate SQL Server to Azure SQL Database

TUTORIAL

[Migrate to SQL DB single database - online](#)

[Migrate to SQL DB single database - offline](#)

[Migrate to SQL DB managed instance - online](#)

[Migrate to SQL DB managed instance - offline](#)

[Migrate RDS SQL Server to SQL DB single database / managed instance](#)

Migrate open-source databases to Azure

TUTORIAL

[Migrate to Azure DB for PostgreSQL online via the portal](#)

[Migrate to Azure DB for PostgreSQL online via the CLI](#)

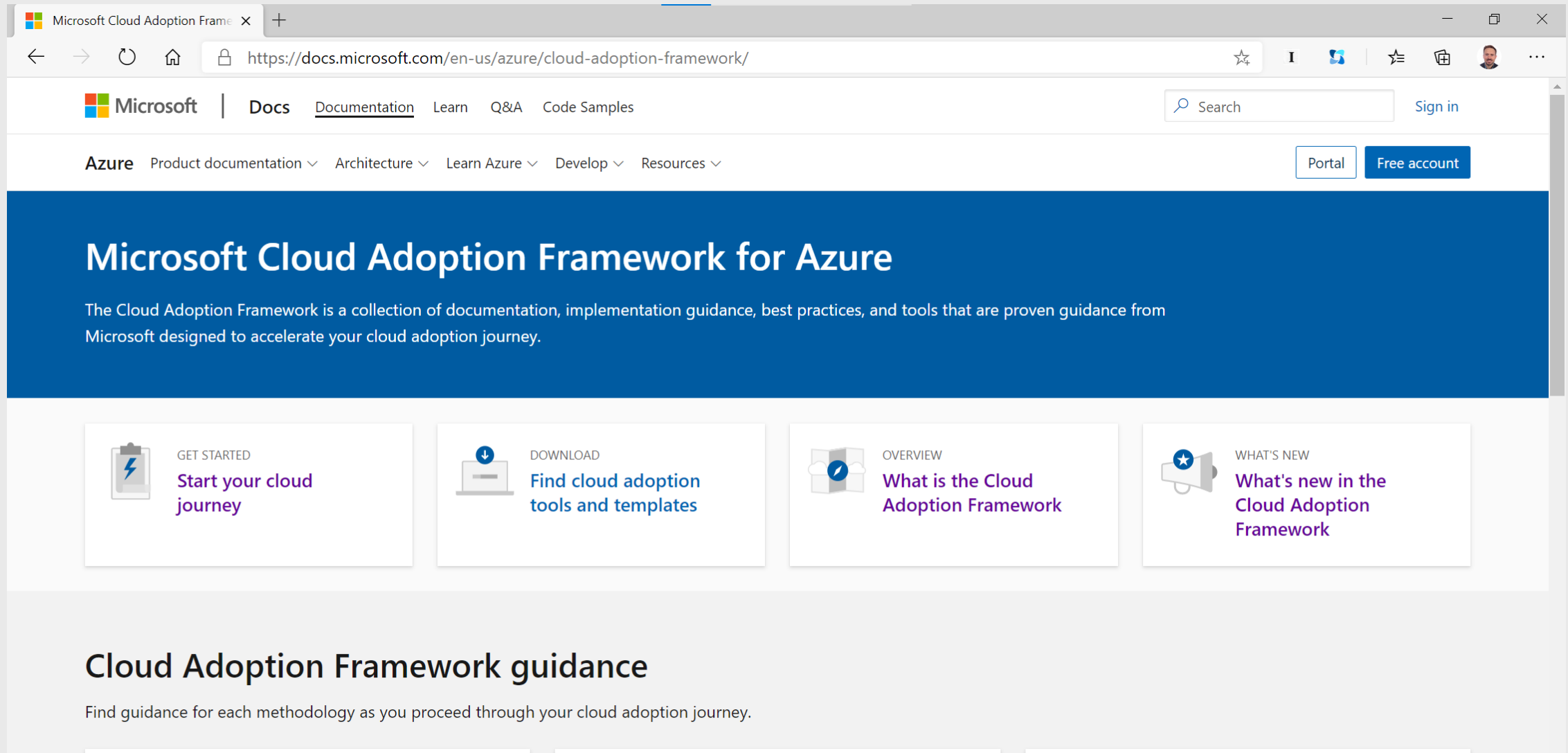
[Migrate RDS PostgreSQL to Azure DB for PostgreSQL](#)

[Migrate between Azure DB for PostgreSQL instances online via the portal](#)

[Migrate to Azure DB for MySQL](#)

<https://docs.microsoft.com/en-us/azure/dms/>

Cloud Adoption Framework



The screenshot shows a web browser window with the URL <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/>. The page features a blue header with the Microsoft logo and navigation links: Docs, Documentation, Learn, Q&A, and Code Samples. A search bar and a 'Sign in' link are also present. Below the header, there's a navigation bar with 'Azure' and various product documentation links. The main content area has a blue background with the title 'Microsoft Cloud Adoption Framework for Azure' and a description: 'The Cloud Adoption Framework is a collection of documentation, implementation guidance, best practices, and tools that are proven guidance from Microsoft designed to accelerate your cloud adoption journey.' Below this, there are four white boxes with icons and text: 'GET STARTED Start your cloud journey', 'DOWNLOAD Find cloud adoption tools and templates', 'OVERVIEW What is the Cloud Adoption Framework', and 'WHAT'S NEW What's new in the Cloud Adoption Framework'. At the bottom, there's a section titled 'Cloud Adoption Framework guidance' with the text 'Find guidance for each methodology as you proceed through your cloud adoption journey.'

Microsoft Cloud Adoption Framework

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Microsoft Cloud Adoption Framework for Azure


The Cloud Adoption Framework is a collection of documentation, implementation guidance, best practices, and tools that are proven guidance from Microsoft designed to accelerate your cloud adoption journey.




GET STARTED
Start your cloud journey



DOWNLOAD
Find cloud adoption tools and templates



OVERVIEW
What is the Cloud Adoption Framework



WHAT'S NEW
What's new in the Cloud Adoption Framework

Cloud Adoption Framework guidance

Find guidance for each methodology as you proceed through your cloud adoption journey.

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/>

Well-Architected Framework

The screenshot shows a web browser window displaying the Microsoft Azure Well-Architected Framework documentation. The browser's address bar shows the URL <https://docs.microsoft.com/en-us/azure/architecture/framework/>. The page features a Microsoft logo and navigation links for Docs, Documentation, Learn, Q&A, and Code Samples. A search bar and a 'Sign in' button are also present. The main content area is titled 'Microsoft Azure Well-Architected Framework' and includes a sub-header '11/20/2019 • 9 minutes to read'. The text describes the framework as a set of guiding tenets for improving workload quality, consisting of five pillars: Cost Optimization, Operational Excellence, Performance Efficiency, Reliability, and Security. A table lists these pillars with their descriptions. On the left, a sidebar shows a 'Filter by title' section with a list of navigation items, including 'Overview', 'Cost Optimization', 'Operational Excellence', 'Performance Efficiency', 'Reliability', 'Security', 'Design Patterns', and 'Azure categories'. On the right, there is a 'Is this page helpful?' section with 'Yes' and 'No' buttons, and an 'In this article' section with links to 'Cost Optimization', 'Operational Excellence', 'Performance efficiency', 'Reliability', and 'Security'.

Microsoft Azure Well-Architected Framework

11/20/2019 • 9 minutes to read • 7

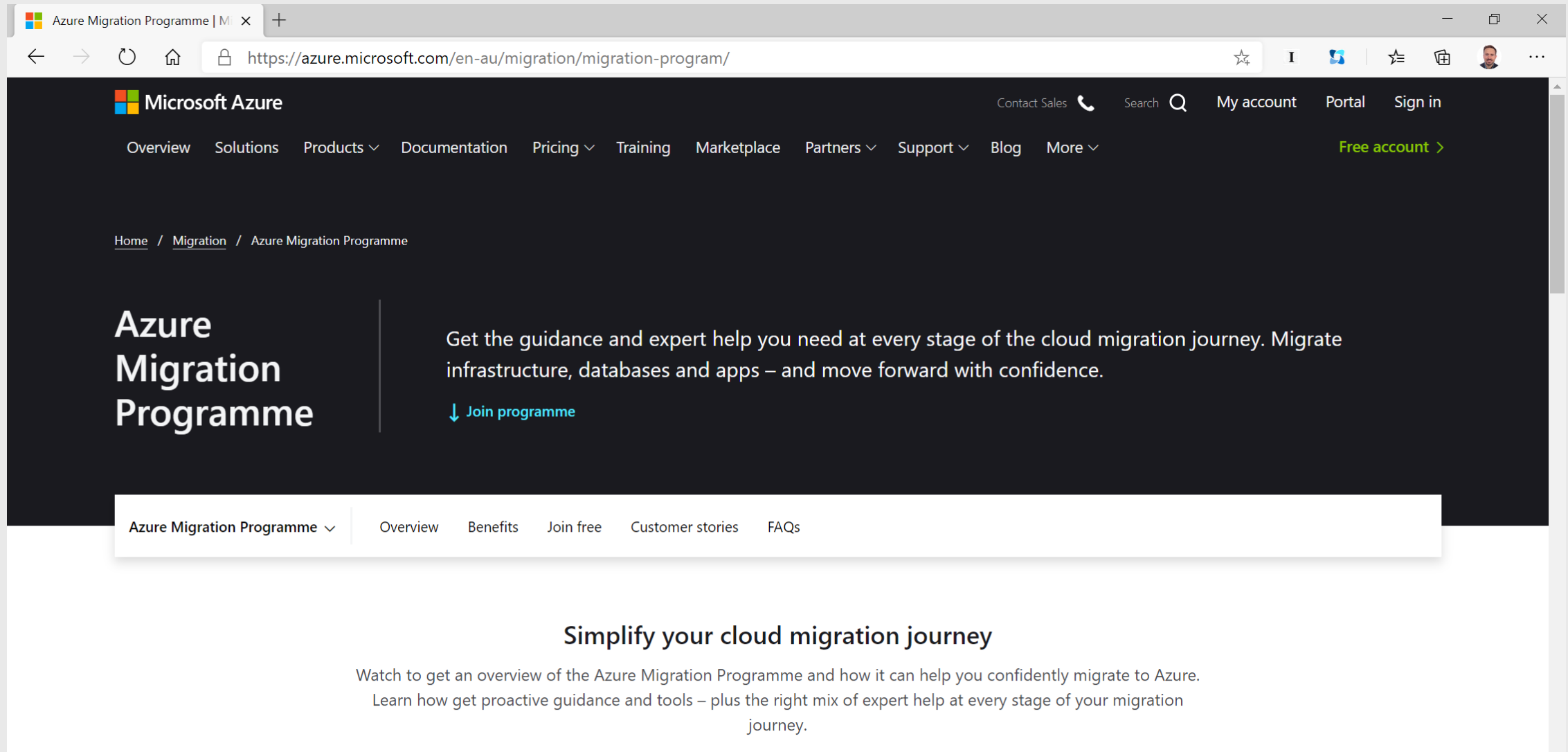
The Azure Well-Architected Framework is a set of guiding tenets that can be used to improve the quality of a workload. The framework consists of five pillars of architecture excellence: Cost Optimization, Operational Excellence, Performance Efficiency, Reliability, and Security.

To assess your workload using the tenets found in the Microsoft Azure Well-Architected Framework, see the [Microsoft Azure Well-Architected Review](#).

Pillar	Description
Cost Optimization	Managing costs to maximize the value delivered.
Operational Excellence	Operations processes that keep a system running in production.
Performance Efficiency	The ability of a system to adapt to changes in load.
Reliability	The ability of a system to recover from failures and continue to function.
Security	Protecting applications and data from threats.

<https://docs.microsoft.com/en-us/azure/architecture/framework/>

Azure Migration Programme



The screenshot shows the Azure Migration Programme website. The browser's address bar displays the URL <https://azure.microsoft.com/en-au/migration/migration-program/>. The page features a dark header with the Microsoft Azure logo and navigation links: Overview, Solutions, Products, Documentation, Pricing, Training, Marketplace, Partners, Support, and Blog. A 'Free account' link is also present. The main content area has a large heading 'Azure Migration Programme' and a subheading 'Get the guidance and expert help you need at every stage of the cloud migration journey. Migrate infrastructure, databases and apps – and move forward with confidence.' Below this is a 'Join programme' button. A secondary navigation bar at the bottom of the main section includes links for Overview, Benefits, Join free, Customer stories, and FAQs. The footer section is titled 'Simplify your cloud migration journey' and contains a video player with the text 'Watch to get an overview of the Azure Migration Programme and how it can help you confidently migrate to Azure. Learn how get proactive guidance and tools – plus the right mix of expert help at every stage of your migration journey.'

Azure Migration Programme | Mi x +

← → ↺ 🏠 🔒 <https://azure.microsoft.com/en-au/migration/migration-program/> ☆ I 🔗 ⚙️ 👤 ⋮

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[Home](#) / [Migration](#) / Azure Migration Programme

Azure Migration Programme

Get the guidance and expert help you need at every stage of the cloud migration journey. Migrate infrastructure, databases and apps – and move forward with confidence.

↓ [Join programme](#)

Azure Migration Programme ▾ Overview Benefits Join free Customer stories FAQs

Simplify your cloud migration journey

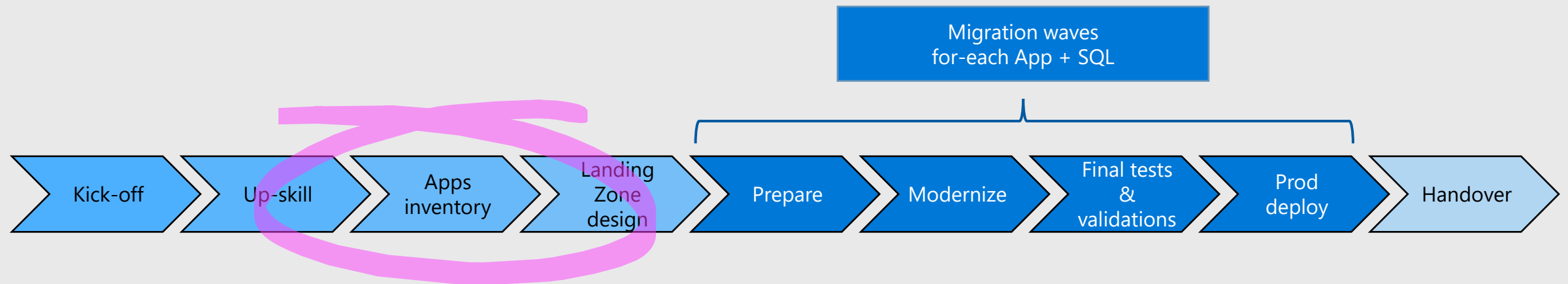
Watch to get an overview of the Azure Migration Programme and how it can help you confidently migrate to Azure. Learn how get proactive guidance and tools – plus the right mix of expert help at every stage of your migration journey.

<https://azure.microsoft.com/en-au/migration/migration-program/>

II. Typical migration plans



Migration phases



Prioritise the estate

Follow 80 / 20 rule

Look for quick and easy wins for the *First Wave*, e.g.

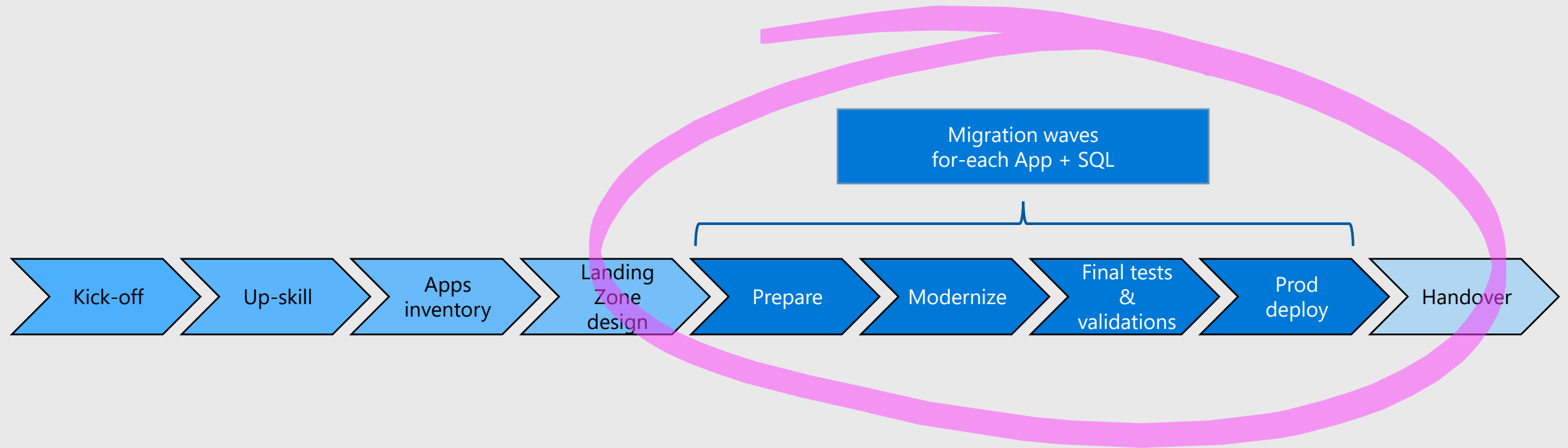
Public facing sites (Extranets, public Websites)

Single DB, no cross-DB joins, no MSDTC, no CLR functions, Text index

No MSI installers or tricky dependencies

Start with a few apps + DB's in the first wave and then ramp up

Migration phases



III. Hosting choices



App Service Plans

App Service Environments



app team

App



app team

App



app team

App



platform
team

Platform



infra team

Infrastructure



Azure Kubernetes Service (AKS)

or VM Scale-sets (VMSS)



app team

App



app team

App



app team

App



platform
team

Platform

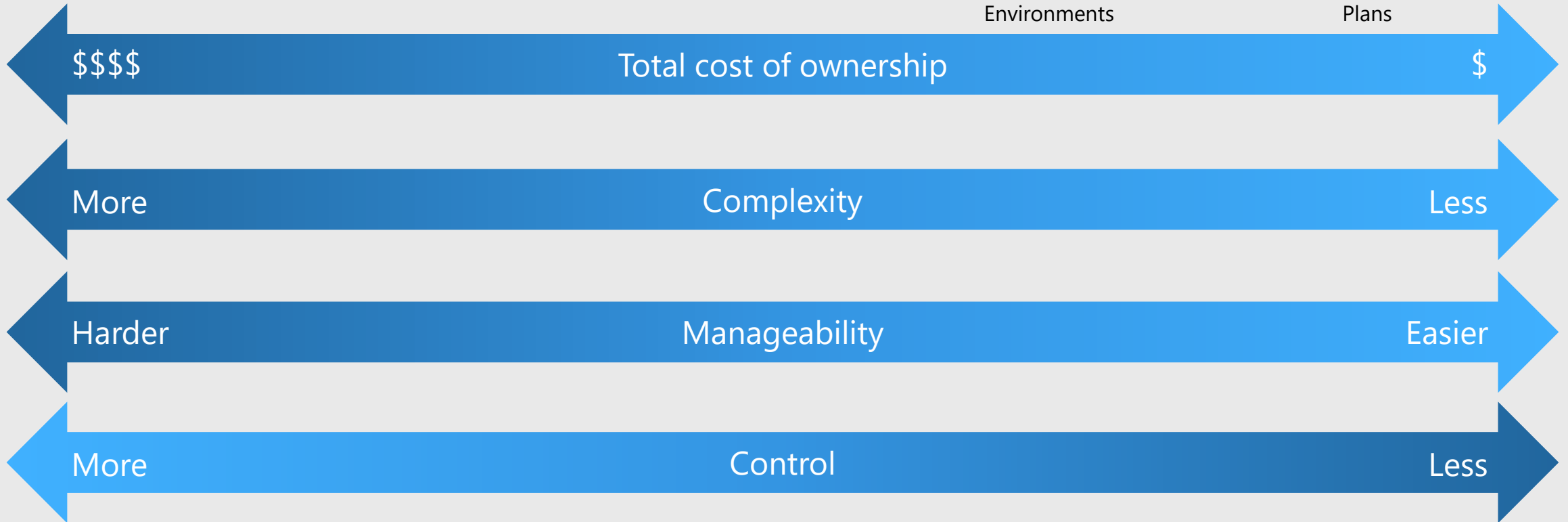


infra team

Infrastructure



Hosting choice factors



IV. Key considerations

Management

Cost optimization

Performance

Security



Demo

Rehosting eShop with az CLI

Demo

Improving performance with Azure Front Door



Summary

I. Where to start

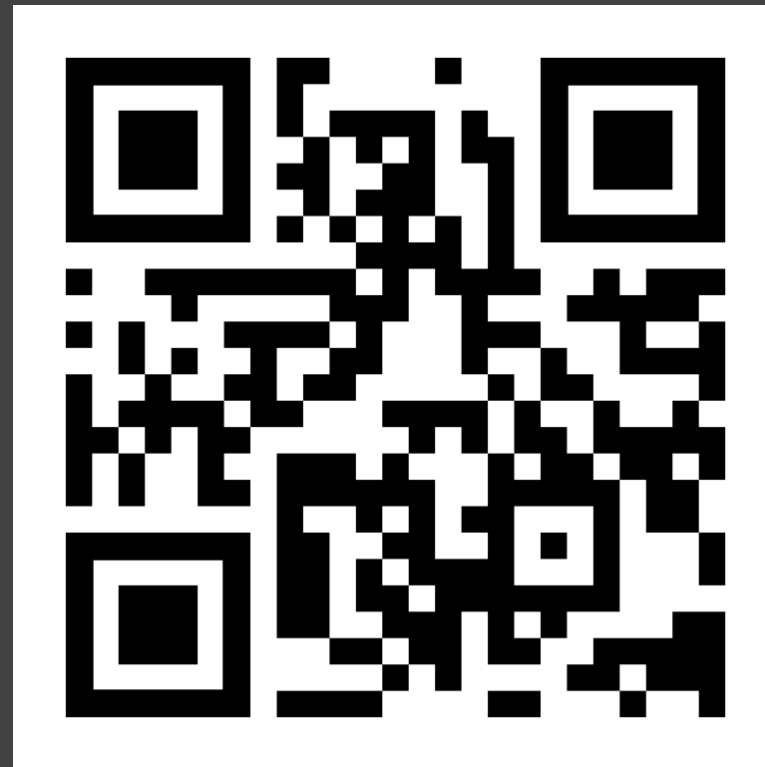
II. Typical migration plans

III. Hosting choices

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Questions?

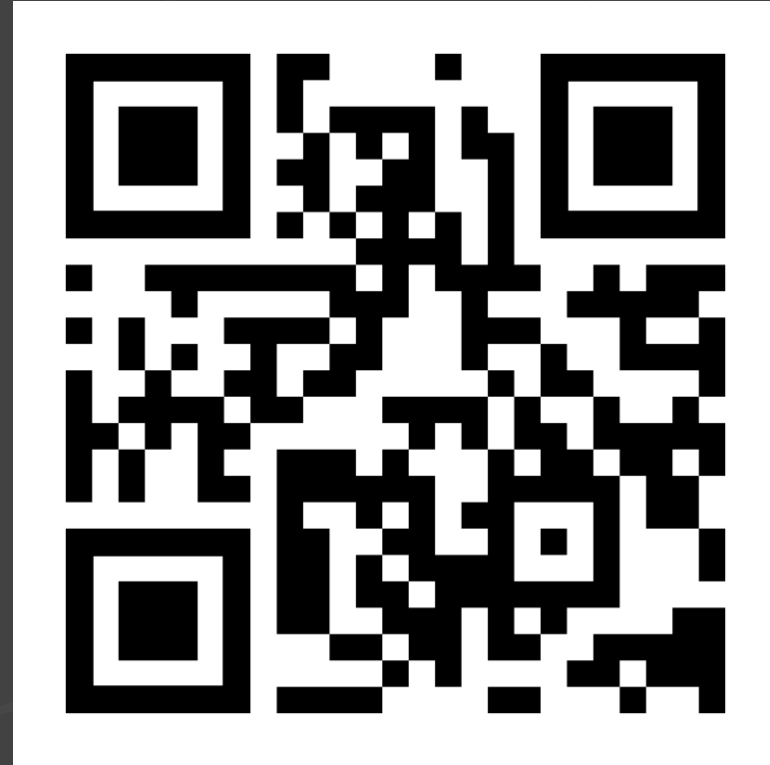


<http://bit.ly/dlnztalks>

Thank
you!



Microsoft



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