



Start your datacentre transformation journey with Azure Migrate

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Cloud Solution Architect

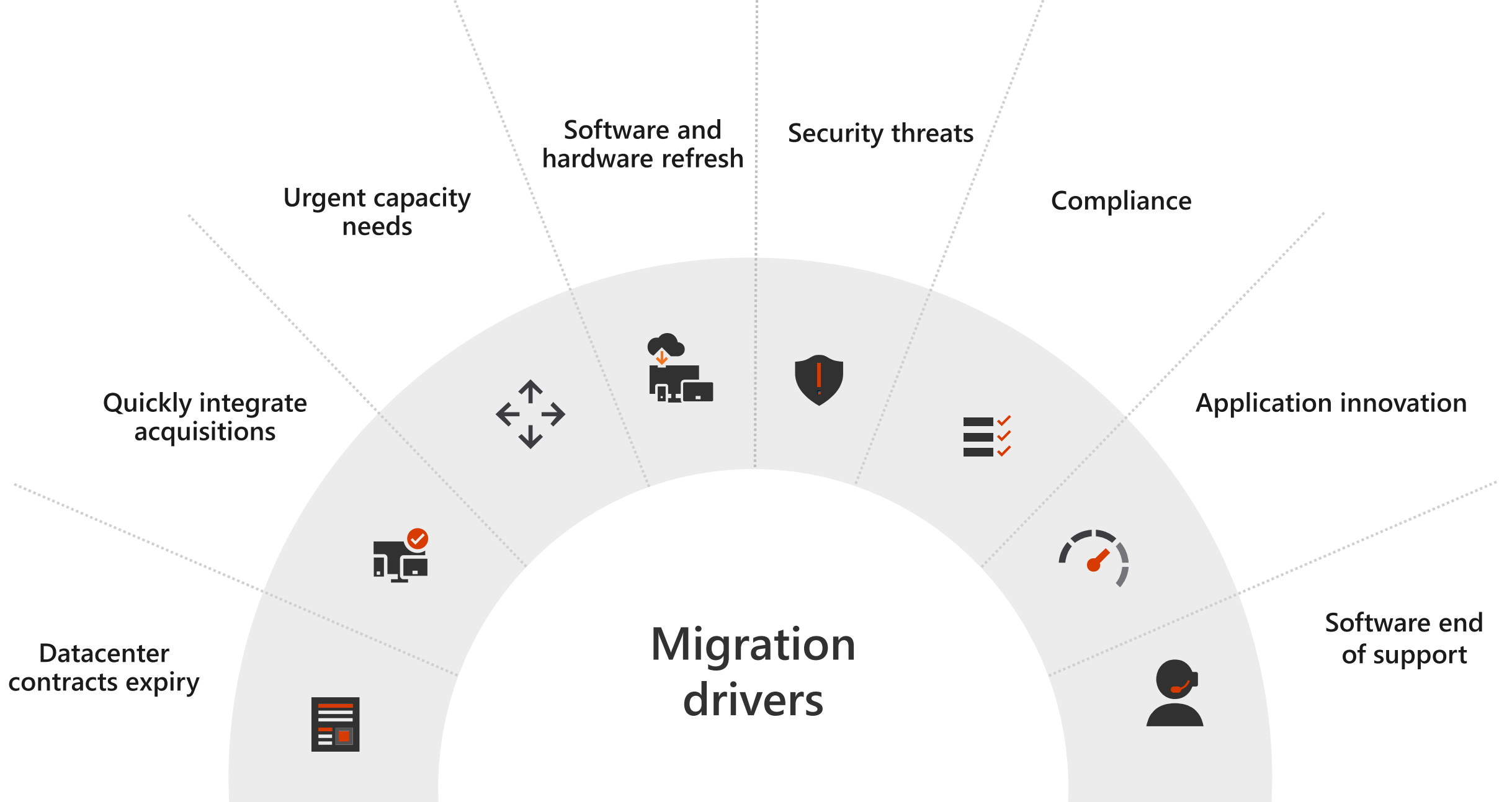
Blogger | Curler | Photographer | Book Lover | Runner | Speaker | STEM Ambassador

13+ years experience in IT

@TechieLass

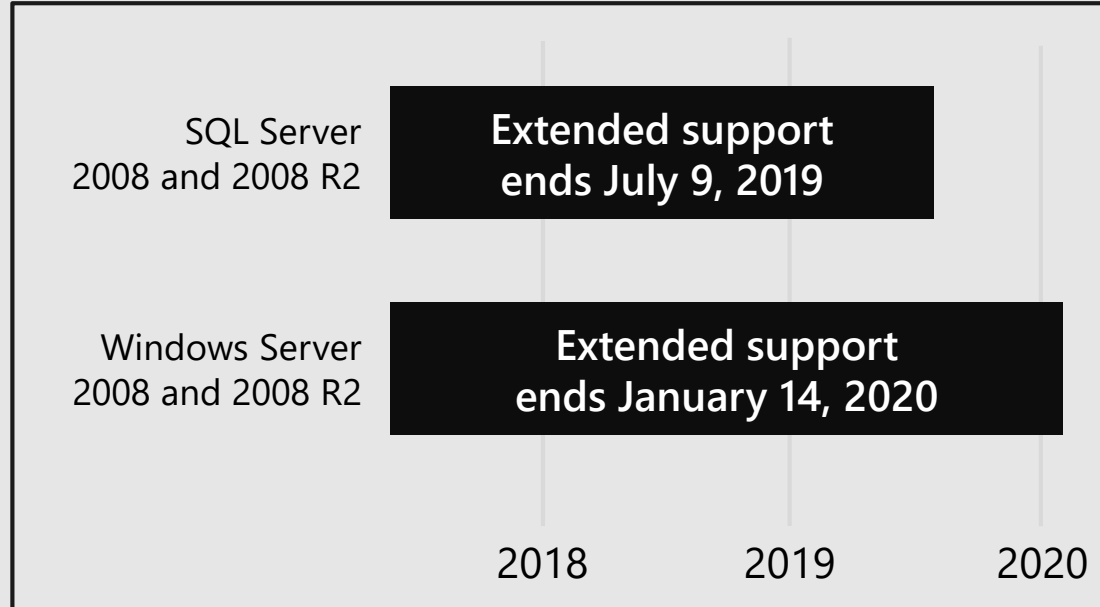
<https://www.techielass.com>





Extended security updates for 2008 and 2008 R2

R2 – free in Azure



Migrate to Azure

Stay on-premises

IaaS: Move to Azure VMs, get 3 more years of extended security updates at no additional charge

PaaS: Move SQL Server to Azure SQL Database Managed Instance (version free, fully managed, no patching needed)

Use Azure Hybrid Benefit to maximize on-premises investments

Upgrade to current Windows Server/ SQL Server versions

OR

Buy 3 more years of extended security updates on 2008/2008 R2

Unified and extensible Azure migration experience



Assess



Migrate



Optimize



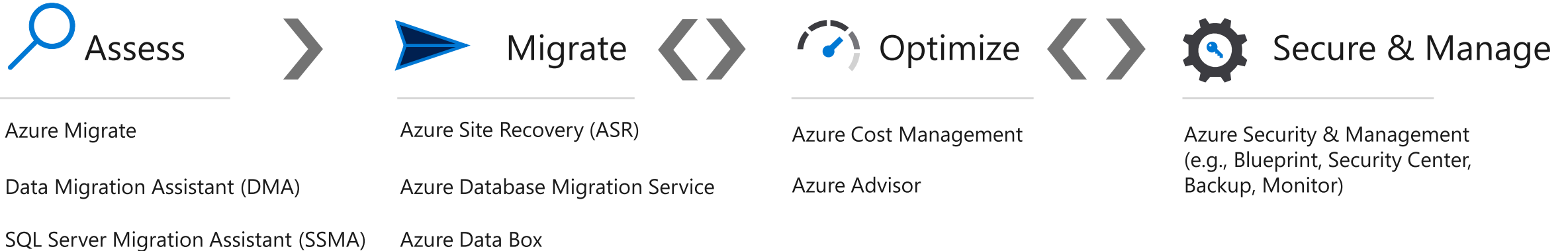
Secure and manage

Migration tools | Azure migration center | Scenario guidance | FastTrack for Azure | Azure Expert MSPs

Foundational best practices: People | Process & Planning | Technology

Choice of tools for every stage and every requirement

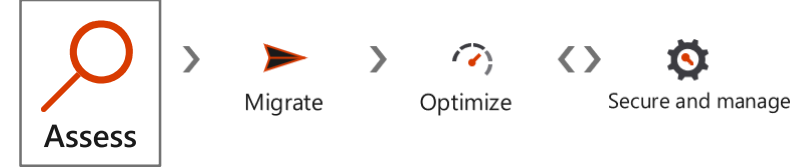
Goal is successful Azure migration: Pick the right tool for the job



We embrace ISV solutions



Assess your environments with Azure Migrate



App performance history

App configuration data

Applicable discounts and offers
(e.g., Azure Hybrid Benefit, RI)

Target Azure location



Azure Migrate

Azure suitability analysis
(e.g., compatibility)

Rightsized Azure resource model

Azure cost estimates

App dependency map

VMware and Hyper-V (NEW!) assessments | Windows and Linux assessments | Free, built in service

Appliance-based

- No pre-setting or pre-configuring a machine
- No installation of pre-requisite software

Light discovery

- No agents to install and no firewall ports to open

Data Collected

- Cores
- Memory
- Disks
- Disk Sizes
- Network Adapters
- CPU usage
- Memory usage
- Disk IOPS
- Disk throughput (MBps)
- Network output (MBps)
- VM Name
- IP Address

Supported Geographies

Geography	Storage location
Azure Government	US Gov Virginia
Asia	Southeast Asia
Europe	North Europe or West Europe
United States	East US or West Central US

DEMO

Create an Azure Migrate
Project

DEMO

Azure Migrate Appliance Install

Deep discovery

- Agent-based
- No guesswork anymore
- No need to remember which machine belongs to which app

DEMO

Azure Migrate Agent Install

Service Map

- Presents a view of your servers as you think of them – as interconnected systems
- Discovers and maps server and process dependencies in real-time
- Can monitor cloud and on premises servers

DEMO

Service Map

Use

- Helps understand dependencies
- Doesn't just need to be used when migrating

Migration Assessment

- Three stages
 - Suitability Analysis
 - Sizing
 - Monthly Cost estimation

DEMO

Azure Migrate Assessment

Migrate

Rehost Tooling

- Need to understand the correct tooling to help migrate the workloads
- For a rehost potentially Azure Site Recovery and/or Azure Database Migration Service
- Third party tooling is also available

Foundational best practices for Azure migration



People

- Drive org culture change
- Set up migration center of excellence (CoE)
- Ensure right stakeholders are engaged
- Provide learning paths & certifications
- Use skilled migration partners



Planning & process

- Build biz case w/ exec sponsorship
- Plan migration strategies
- Start small: Do a pilot
- Track migration scorecard
- Track and optimize cloud spends



Technology

- Choose the right tools for the job
- Govern Azure environments & resources
- Extend networking/identity to Azure
- Establish robust security foundation
- Use integrated security/management tools

Optimise

Continuously optimize resources during and after migration

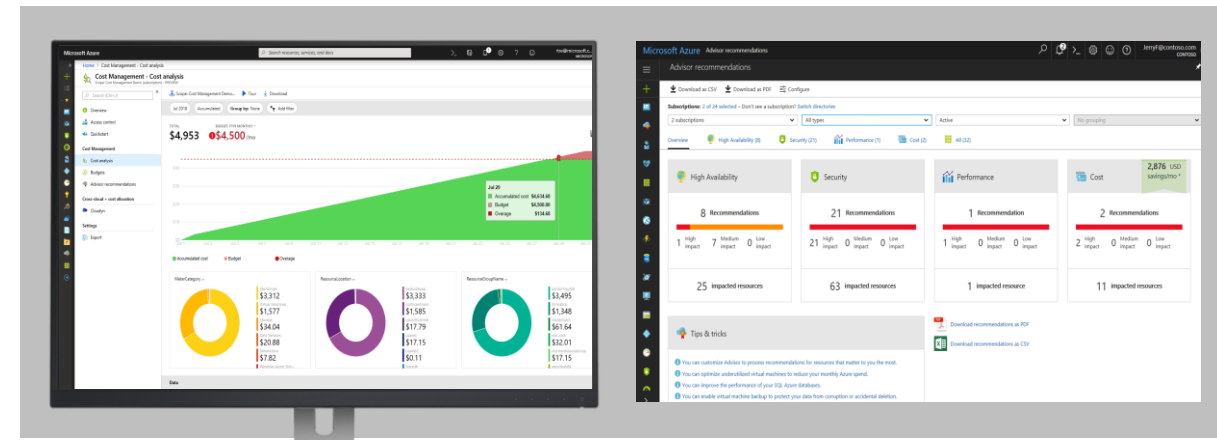
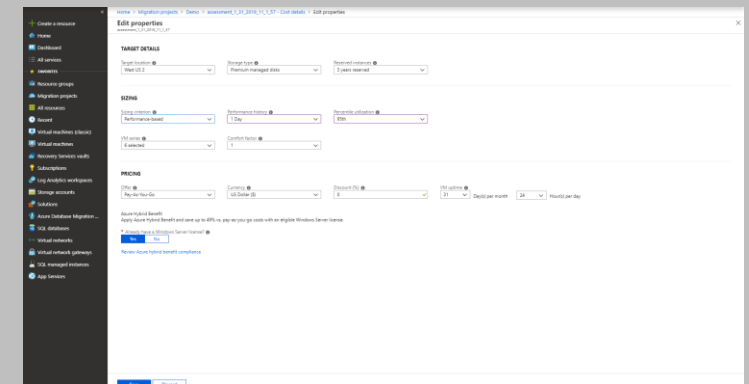
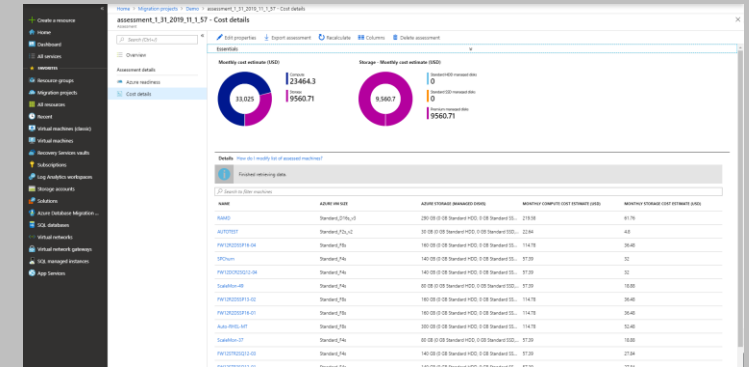
As you move

- Right-size Azure resources based on assessment guidance
- Use Azure Hybrid Benefit and Azure Reserved Instances to save money

After you move

- Unified experience to optimize cloud spends: Azure Cost Management
- Azure Advisor: Built-in best practice recommendations (e.g., turn off idle VMs)

Modernize for longer term value



Secure & Manage

Keep migrated workloads secure and managed

Built-in, intelligent services for Azure and on-premises workloads



Governance

Proactively apply policies and optimize cloud spend



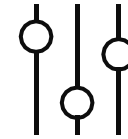
Security

Industry leading Security with Advanced Threat Protection



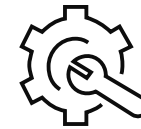
Resiliency

High availability and protection for VMs, apps and data



Monitoring

Deep operational insights with rich intelligence



Automate

Powerful scripting, configuration and update management

Turn on security, backup, and monitoring for every migrated resource



Best Practice

Best practices by phase

Learnings from at-scale Azure migrations



Assess



Migrate



Optimize



Secure & Manage

Build an Inventory of apps, databases, & VMs

Update or create service catalog with the Business, and beware departmental apps, databases & reports

Look for good POC candidates

Assign priority, complexity & risk to all items which will be migrated to Azure

Beware of higher security apps and those which integrate with firewalls

“Redesign” every app for Azure!

Choose the right tool for the job, and be flexible

Select more powerful sizes of Azure resources during the migration and scale down (saves time during migrations)

Involve the Business at every step, identify a contact for each group and demand testers and sign-off (no Monday madness)

Perform non-disruptive testing and performance testing prior to cutovers

Start with Easy, then move on to the hard

Azure Cost Management is a critical tool

Leverage Azure Hybrid Use Benefit for Windows and SQL along with Reserved Instances to save up to 80%

Scripts and Azure Automation should be used to shutdown VMs that aren't needed 24x7

Watch out for migration leftovers like onetime backups sitting in Blob Storage or VHDs and Snapshots that aren't being used

Migration isn't complete until it is fully operationalized without monitoring, backup, failover and security configured

Partner solutions can be extended to the cloud if you use a third party backup, it will most likely work with Azure

Leverage Azure Automation or tools like Terraform, Chef & Ansible

Leverage Platform tools such as Azure Security Center, Log Analytics and Application Insights

Azure migration center

All things migration

Guidance

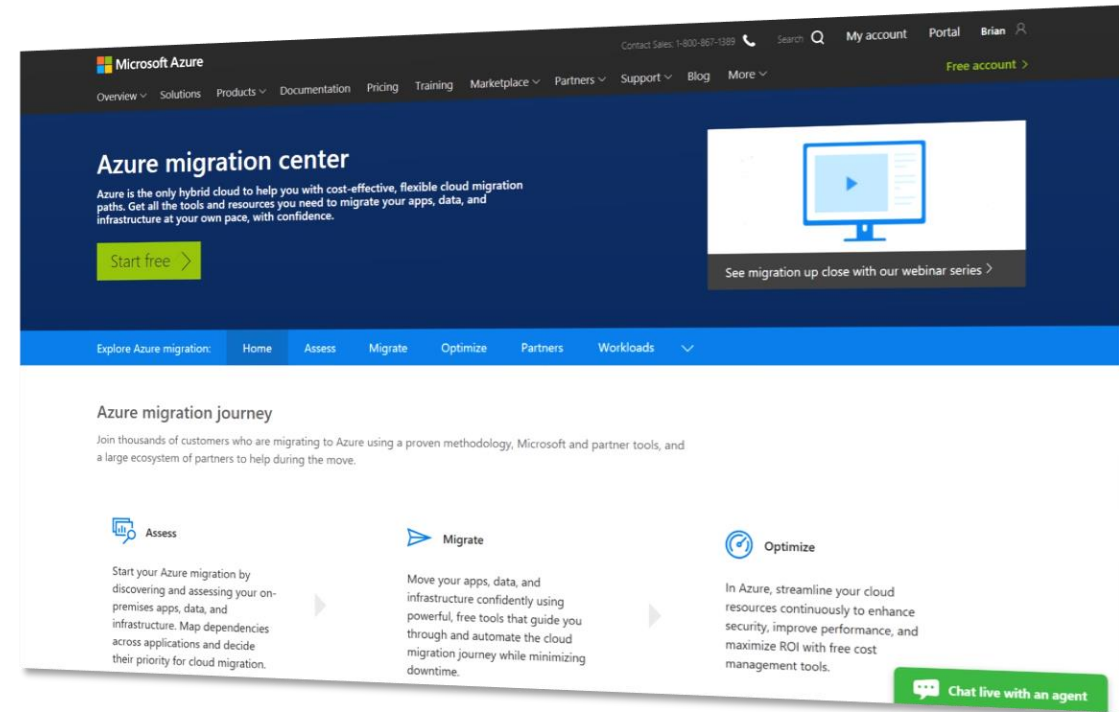
Migration journey
and strategies

Tools

Right tools for the job

Partners

Migration experts



[Azure.com/Migration](https://azure.com/Migration)

Keep up to date on your Azure skills as you migrate



Microsoft.com/Learn

Build skills quickly

Measure Azure skill proficiency

Role based certification & training

Announcing free migration course Assessing and Planning Azure Migration

The screenshot displays the Microsoft Learn website. At the top, there's a navigation bar with links for Microsoft, Learn, Azure, Business Applications, About, Browse All, and Certifications. Below this, a 'WELCOME TO Microsoft Learn' banner introduces a new approach to learning, emphasizing the skills required to advance one's career. A 'Start Learning for free' button is prominently displayed. The main content area features a 'Start a learning path' section with a 'Select your role' dropdown menu. Below this, there are three featured learning paths: 'Cloud Foundations', 'Administer infrastructure resources in Azure', and 'Deploy a website with Azure App Service'. Each path includes a brief description and a 'Begin' button. At the bottom, there's a section for 'Browse All Azure Learning Paths' and 'Browse All Azure Modules', listing various modules like 'Administer containers in Azure', 'Work with NoSQL data in Azure Cosmos DB', and 'Architect great solutions in Azure'. A sidebar on the right offers 'Additional Azure Training' with links to 'Free Pluralsight Courses' and 'Azure Certifications'.



Thank You!

Platinum



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