

Unlock cloud migration success

Modern strategies for moving to the cloud

Microsoft Build 2025





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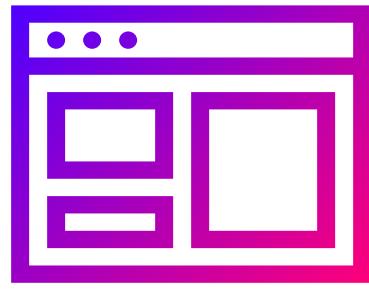
So you think you want to migrate
to the cloud... ?

“ Worldwide end-user spending on public cloud services is forecast to grow **20.4%** to total **\$678.8** billion in 2024, up from **\$563.6** billion in 2023. ”

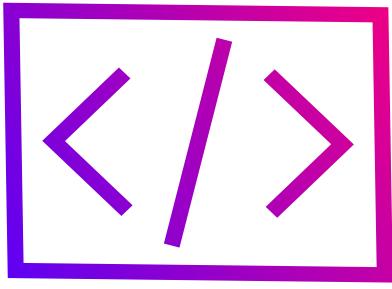
Gartner
2024 Forecast

Barriers To Migration

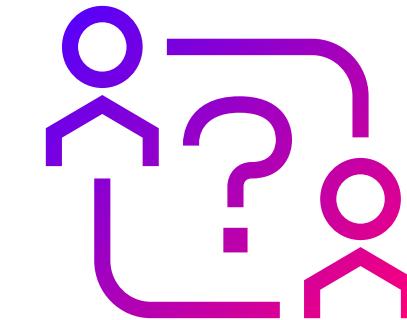
(Identified by Gartner)



Application Size



Heavy Customization



Insufficient Skills

Why Migrate?

Scalability

Reliability

Security

Optimized Costs

Free up
resources

Scalability

- Elasticity
- Global Reach
- Cost Efficiency
- Flexibility
- Improved Performance & Reliability



Reliability

- High Availability
- Disaster Recovery
- Scalable Infrastructure
- Proactive Monitoring & Maintenance
- Security Compliance



Security

- Advanced Security Measures
- Expertise & Resources
- Scalability of Security Measures
- Disaster Recovery Backup
- Continuous Monitoring & Incident Response



Optimized Costs

- Pay-as-you-go Pricing
- Reduced Infra costs
- Operational Efficiency
- Energy Savings
- Improved Budgeting and Forecasting
- Reduced Downtime Costs



Free Up Resources

- Reduced Infrastructure Mgmt
- Focus on Core Biz Objectives
- Access to Advanced Tools & Services
- Enhanced Collaboration & Integration
- Improved DevOps Practices
- Enhanced Resource Allocation



How to Migrate

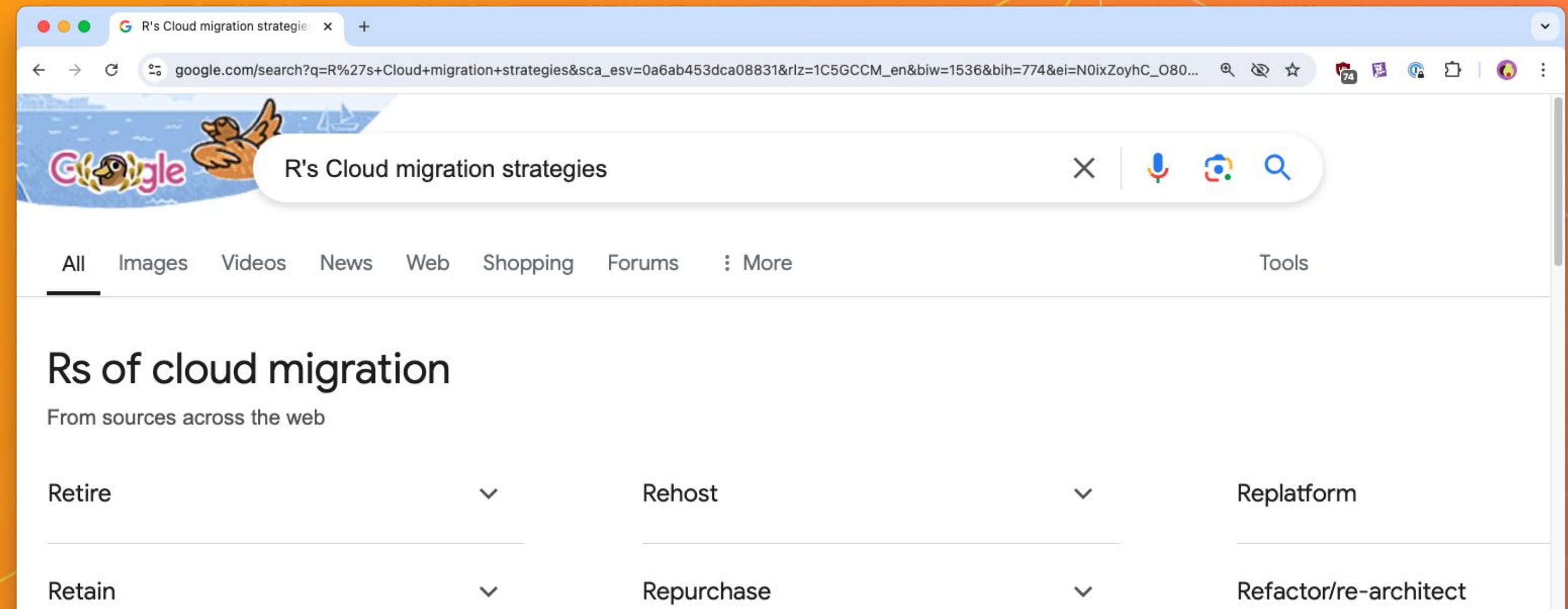
How to Migrate

“ It depends ... ”

Everyone who has successfully migrated to the cloud

Everywhere

Cloud Migration Strategies



Strategies

| Rehost (“Lift & Shift”)



r/sysadmin · 1 yr. ago



Regret moving to the Cloud?

I'm an Assistant Director in the IT department for a university. Several colleagues and I have been tasked with looking into moving our ERP system to the cloud, as we are in a hurricane prone area. We're considering Azure at the moment.

I'm interested to know if any who has moved their systems to cloud, do you regret it? Has anyone moved back to on prim for whatever reason?



Archived post. New comments cannot be posted and votes cannot be cast.



76



155



155



Share

Sort by: Best

Search Comments



• 1y ago

"Lift and shift" is the most expensive thing you can possibly do. Simply running the same VMs you have somewhere else works fine, but is very expensive. What about backups? Connectivity? Etc.

If your ERP vendor offers an actual SaaS product, that is worth investigating.

Never move things to the cloud simply because it's the cloud.



DATADOG

16

Strategies

| Rehost ("Lift & Shift")

| Replatform

| Repurchase

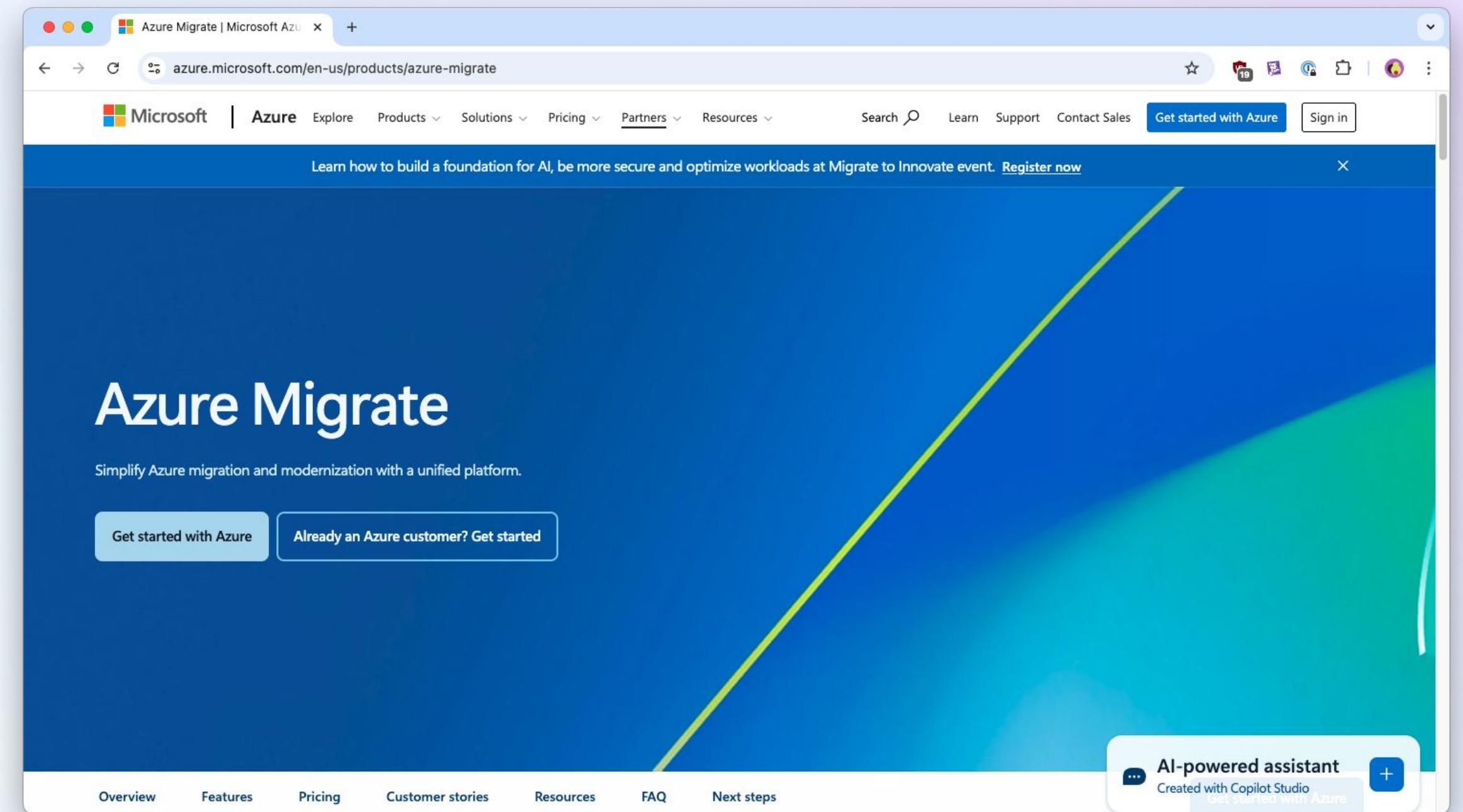
Strategies

| Re Architect

| Retain

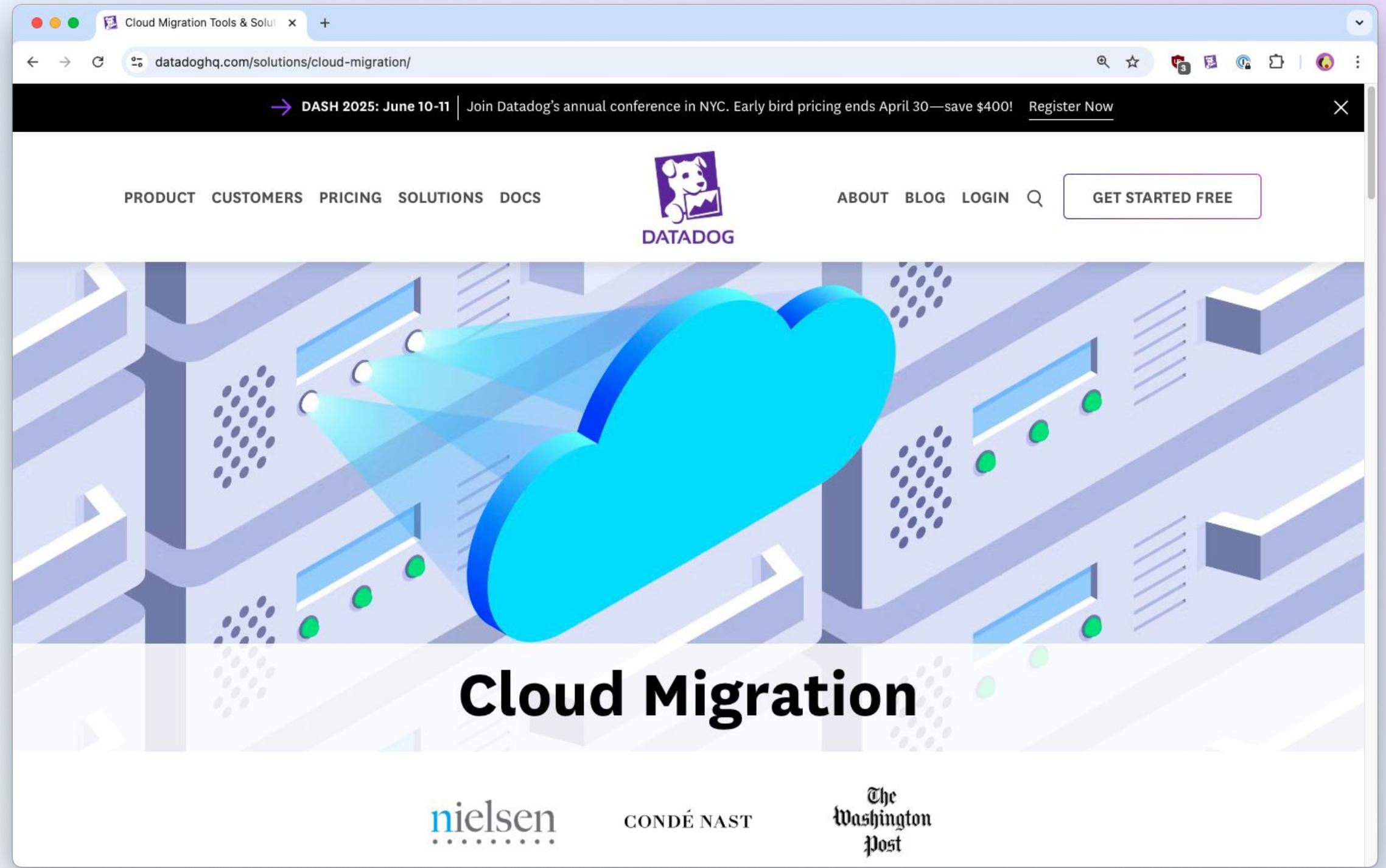
| Retire

Azure Migration Tools



<https://azure.microsoft.com/products/azure-migrate>

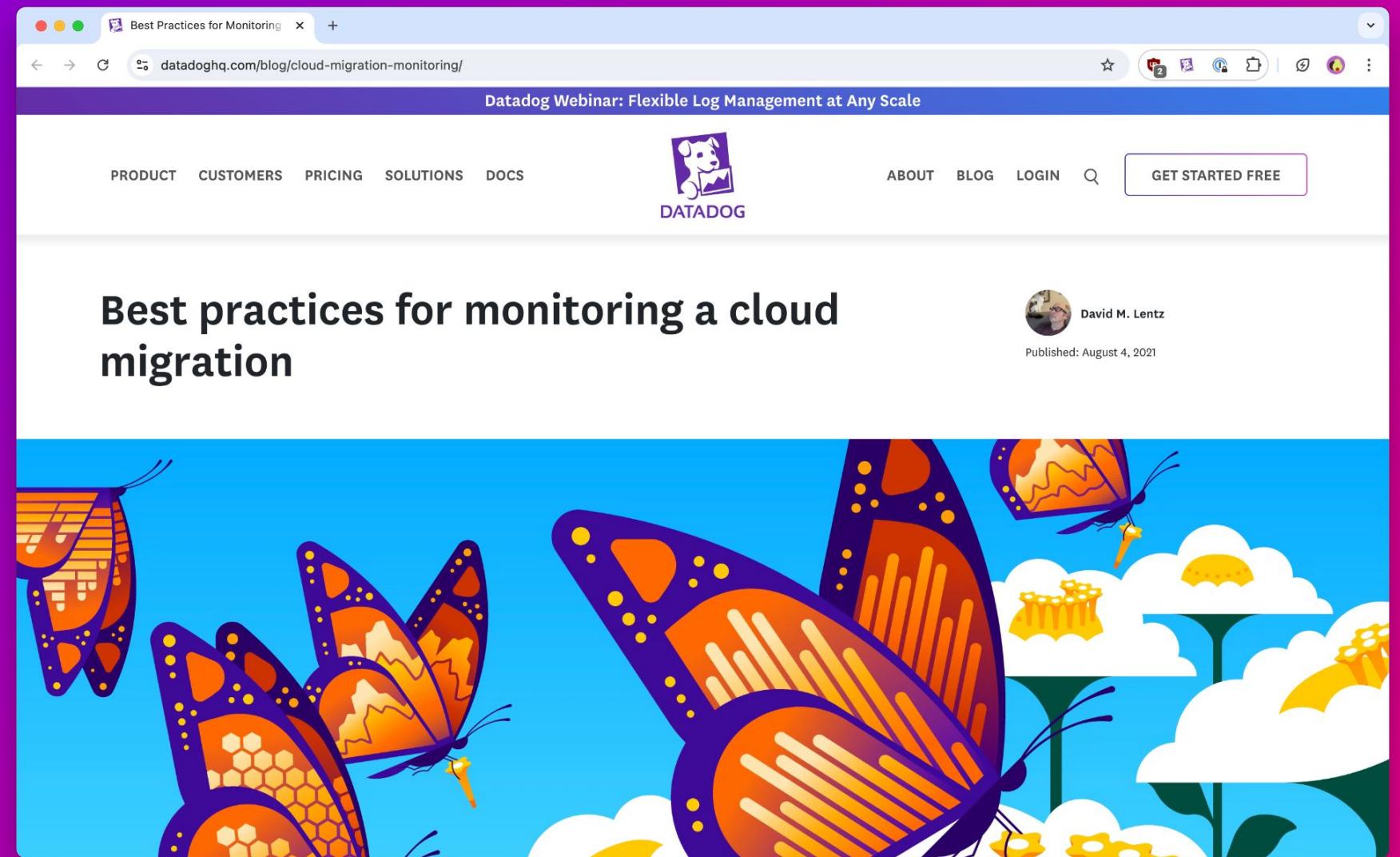
Cloud Migration Case Studies



<https://www.datadoghq.com/solutions/cloud-migration>

Cloud Migration

“To execute a successful cloud migration, you need a **detailed inventory** of your current deployments, visibility into your application’s performance as you shift traffic to the cloud, and confirmation that—once you’ve landed in the cloud—you’re **still** providing a high-quality user experience.”



<https://www.datadoghq.com/blog/cloud-migration-monitoring>

Pre-Migration Strategies

**“If you fail to plan,
you are planning to
fail”**

- Benjamin Franklin (* maybe)

* There is no substantive evidence that the quote is attributed to Benjamin Franklin

Planning

The screenshot shows a web browser window with a purple header. The main content area displays a blog post from the Datadog blog. The title of the post is "Successfully migrate to Azure with the Microsoft Cloud Adoption Framework and Datadog". Below the title, there are categories: INFRASTRUCTURE MONITORING, AZURE, and MIGRATION. The post has a "5 MIN READ" duration and was published on APR 18, 2022. There are social sharing icons for X, Email, and LinkedIn. A sidebar on the right lists various documentation topics such as Telemetry, Administrator's Guide, Log Mobile App, and Metrics.

<https://www.datadoghq.com/blog/migrate-to-azure-with-the-microsoft-cloud-adoption-framework/>

<https://docs.datadoghq.com/integrations/guide/azure-cloud-adoption-framework/>

The screenshot shows the Datadog documentation website. The URL in the address bar is "https://docs.datadoghq.com/integrations/guide/azure-cloud-adoption-framework/". The page title is "Azure Cloud Adoption Framework with Datadog". The navigation menu includes links for DOCS, INTEGRATIONS, INTEGRATION GUIDES, and AZURE CLOUD ADOPTION FRAMEWORK WITH DATADOG. The main content section is titled "Azure Cloud Adoption Framework with Datadog" and contains an "Overview" section. It states that using Azure's Cloud Adoption Framework with Datadog can help ensure safe, speedy migrations to a new cloud environment. Below the overview, there is a list of steps under "You can:":

1. Prepare your Datadog account for your teams to efficiently execute their workload migrations. This is the "planning" stage.
2. Use Datadog to measure the health of your original environments and new workloads as your teams launch them in your new landing zones. This is the "migrating" stage.

The page also mentions that this guide documents the migration process for organizations that follow Azure's Cloud Adoption Framework. At the bottom, it encourages users to start a two-week trial if they don't have a Datadog account yet.

Planning

When planning your migration, prepare your Datadog account to monitor your new workloads as soon as they are migrated into your Azure account by doing the following:

Enable Integrations

The screenshot shows the Datadog Integrations page with the URL <https://app.datadoghq.com/integrations?category=Azure>. The 'Integrations' tab is selected. A search bar contains 'Search integrations' and a dropdown for 'All Statuses'. Below the search bar, a navigation bar includes tabs for AWS, Azure (which is selected), Google Cloud, AI/ML, Alerting, Automation, Collaboration, Configuration & Deployment, Containers, Data Stores, and Developer Tools. Sub-tabs include Kubernetes, Message Queues, Network, OS & System, Security, Testing, and All Categories. The main area displays 'Search Results' with 63 results for Azure. Each result card includes an icon, the service name, and 'by Datadog'. One card for 'Azure App Service Environment' has an orange banner stating 'NO DATA RECEIVED' and a 'CONFIGURE' button.

Icon	Name	Provider
Azure logo	Azure by Datadog	Datadog
Cloud with magnifying glass	Azure AI Search by Datadog	Datadog
Cloud with nodes	Azure Analysis Services by Datadog	Datadog
Cloud with purple dot	Azure API Management by Datadog	Datadog
Cloud with gear and lightning bolt	Azure App Service Environment by Datadog	Datadog
Cloud with gear	Azure App Service Plan by Datadog	Datadog
Network nodes	Azure App Services by Datadog	Datadog
Green diamond with globe and arrows	Azure Application Gateway by Datadog	Datadog
Blue H icon	Azure Arc by Datadog	Datadog
Gear with lightning bolt	Azure Automation by Datadog	Datadog
Cloud with double arrow	Azure Backup by Datadog	Datadog
Cloud with double arrow	Azure Backup Vault by Datadog	Datadog

Tags

Tagging is critical in the effective monitoring of your applications and environments.

Add the following tags to your resources whenever applicable:

TAG NAME	DESCRIPTION
env	For <code>prod</code> , <code>staging</code> , and <code>dev</code> .
service	When in doubt, use the same value as <code>ApplicationName</code> .
version	Identifies which version of an application is being used.
team	Defines what team has built or manages the resource. Create a separate Microsoft Teams channel devoted to each team so they can receive communications about the health of their services.
owner	Defines who specifically is responsible for a resource.
workload	Clarifies what workload a resource relates to, and assists in legacy-to-cloud performance and KPI comparisons.
landing-zone	Identifies what landing zone a resource exists in (if any) and assists in legacy-to-cloud performance and KPI comparisons.



Dashboards



Communication channels for incident response



Migrating

Install and Configure the Agent

Create comprehensive, consistent observability across your original environment and new workloads with the Datadog Agent

1. Add integrations to collect service-specific data
2. Enable APM to track requests, latency, and errors
3. Ingest logs for deeper context and faster troubleshooting
4. Monitor cloud networking to ensure service connectivity



Dashboards

Observe the health of your legacy environments and new workloads side-by-side.

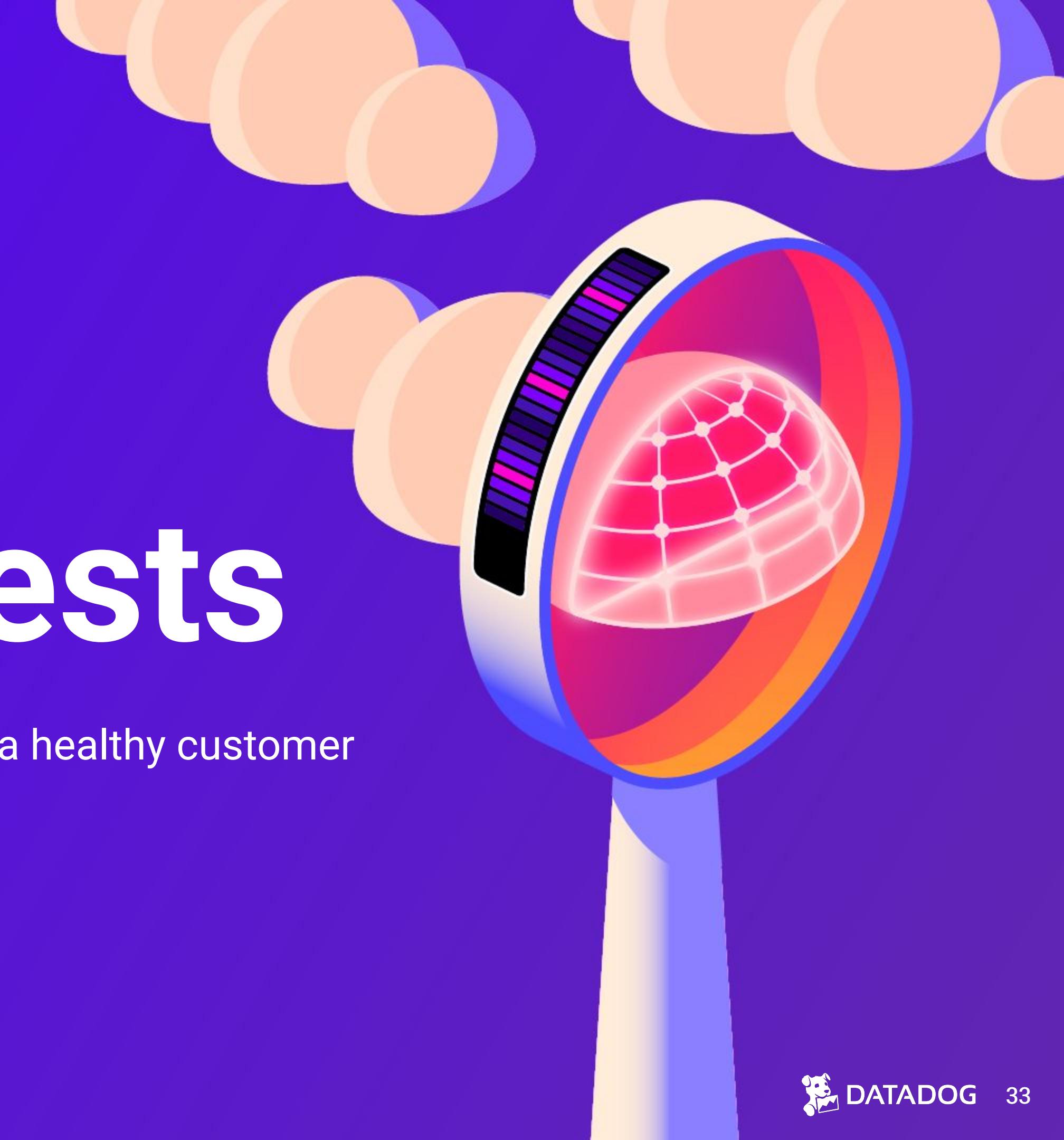
Configure Monitors

Respond to important changes in performance KPIs



Synthetic Tests

Configure Synthetics tests to proactively verify a healthy customer experience for your end users.



Configure SLOs

Document your workloads' availability targets and success throughout the migration.



EBook: Migrate to Azure With  +

datadoghq.com/resources/cloud-excellence-azure-migration-ebook/



GET STARTED FREE

Migrate to Azure without disruption

In today's rapidly evolving technology landscape, embracing cloud migration isn't just an option - it's a necessity for staying competitive and ensuring scalability, security, and efficiency. Yet, this shift comes with its share of challenges.

Read this eBook for a framework for leveraging a unified observability and security platform like Datadog to understand every stage of your Azure cloud migration journey including:



Complete the form to receive the eBook

First Name*

Last Name*

Next Steps

- Discuss and choose the right strategy for you
- Review the **Azure Migration Tools** (and docs)
- Read the complimentary material (case studies, blogs)
- Pre-migration
 - **Plan** (integrations, tags, dashboards, comms)
 - **Migrate** (install agent, dashboards, monitors, synthetic tests, SLOs)

Final Thoughts

- Every organization is unique – so every cloud migration is too!
- Understand your applications, infrastructure, and their associated costs as best you can **BEFORE** taking action.

Thank you

Resources

- datadoghq.com/blog/migrate-to-azure-with-the-microsoft-cloud-adoption-framework
- docs.datadoghq.com/integrations/guide/azure-cloud-adoption-framework
- datadoghq.com/resources/cloud-excellence-azure-migration-ebook
- datadoghq.com/blog/establishing-service-level-objectives
- datadoghq.com/blog/cloud-migration-monitoring
- datadoghq.com/solutions/cloud-migration



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DATADOG