Red Hat Summit

Connect

Migrate and Modernize: Building an AI-Ready Future with Red Hat and Microsoft

Microsoft Azure | Red Hat

Red Hat | Microsoft

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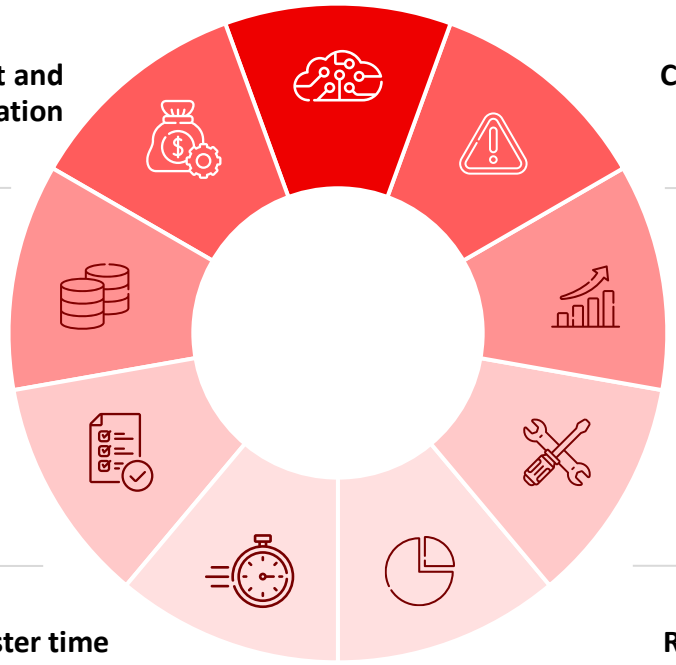
Your business has competing priorities

72%
of organizations already use GenAI[1]



#1
organizational initiative[4]

100+
vendors and tools for an organization[3]

$4.88M
average cost of a data breach[2]

90%
of organizations are impacted by IT skills shortage[5]

1 The State of AI: Global survey | McKinsey
2 Cost of a data breach 2024 | IBM
3 Going lean: How vendor consolidation creates big gains, MIT Technology Review, June 2020
4 Flexera State Of The Cloud 2025
5 IT Skills Shortage Expected to Impact Nine out of Ten Organizations by 2026

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Azure promise

Pressing priorities

Manage rising costs, maintain security, control IT sprawl

Future innovation

Accelerate innovation with AI and cloud-native technologies

Azure meets you

where you are in your cloud journey

Red Hat and Azure empowering the Enterprise

of Fortune 500 companies use Microsoft Azure

of Fortune Global 500 companies rely on Red Hat

BMO

NTT

Munich RE

MITSUBISHI HEAVY INDUSTRIES

AIA HEALTHIER, LONGER, BETTER LIVES

Carlsberg Group

FUJITSU

EY Building a better working world

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Azure Red Hat OpenShift

A jointly supported, turnkey application platform native to Azure.

- Comprehensive application platform
- Hybrid cloud flexibility
- Fully managed Day 2 operations
- Integrate with Azure services
- Consistent updates and patches
- Single invoice and draw down on MACC

65% Shortened dev cycle[1]

50% Improved operational efficiency[1]

1 "The Total Economic Impact™ of Microsoft Azure Red Hat OpenShift by Forrester, "Mar. 2024

Why do customers choose Azure?

Azure is the only cloud to offer **Ansible**, **OpenShift**, and **JBoss** as managed services, billed through our **Azure** account and offering fully integrated customer support.

- **Trusted enterprise relationships with Microsoft**
- **AI leadership**
- **Microsoft Cloud**
- **Security**
- **Global data center reach and regions**
- **Edge, hybrid, multicloud**
- **Developer solutions**
- **Partner ecosystem**

Use the Red Hat products you know and love

Red Hat Enterprise Linux for Azure	Red Hat AI on Azure	JBoss EAP on Azure	Red Hat Ansible Automation on Azure	Red Hat OpenShift /Azure Red Hat OpenShift
Simplify deployment using a ready-to-run image pre-configured for performance with Azure-specific profiles.	Reduce costs by optimizing models, simplifying private data integration, and speeding delivery of AI solutions.	Develop modern Jakarta EE apps and run JBoss EAP in any environment.	Create, manage, and dynamically scale automation across your entire enterprise.	Easily build, deploy, and manage modern containerized apps, VMs, AI-enabled apps, and commercial software — all on a fully managed application platform.

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Innovate faster with the comprehensive Azure platform

Developer Tools

- GitHub Copilot
- Copilot Studio
- Visual Studio Code
- Azure AI Foundry SDK

Application Services

- Azure Kubernetes Service
- Azure Red Hat OpenShift
- Azure Container Apps
- Azure App Service
- Azure Functions

Managed Databases

- Azure SQL family
- Azure PostgreSQL
- Azure MySQL

Infrastructure as a Service

- Compute
- Storage
- Networking

Integration Services

- Azure API Management
- Azure Service Bus
- Azure Logic Apps

Security

- Microsoft Security
- GitHub Advanced Security

AI Portfolio

- Azure AI Foundry

Observability

- Azure Monitor
- Azure App Insights
- Azure Managed Grafana
- Azure Managed Prometheus

Reliability

- Azure Load Testing
- Azure Chaos Studio

Developer → IT Ops

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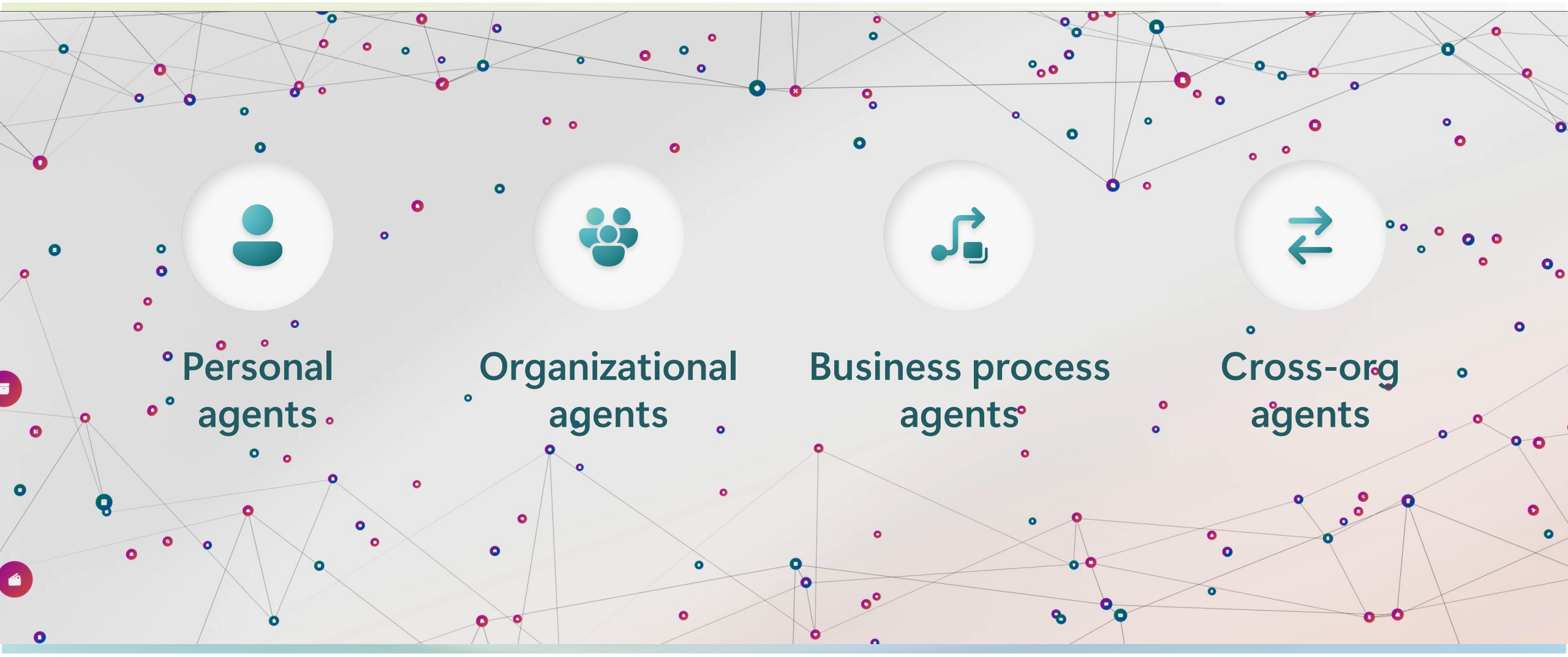
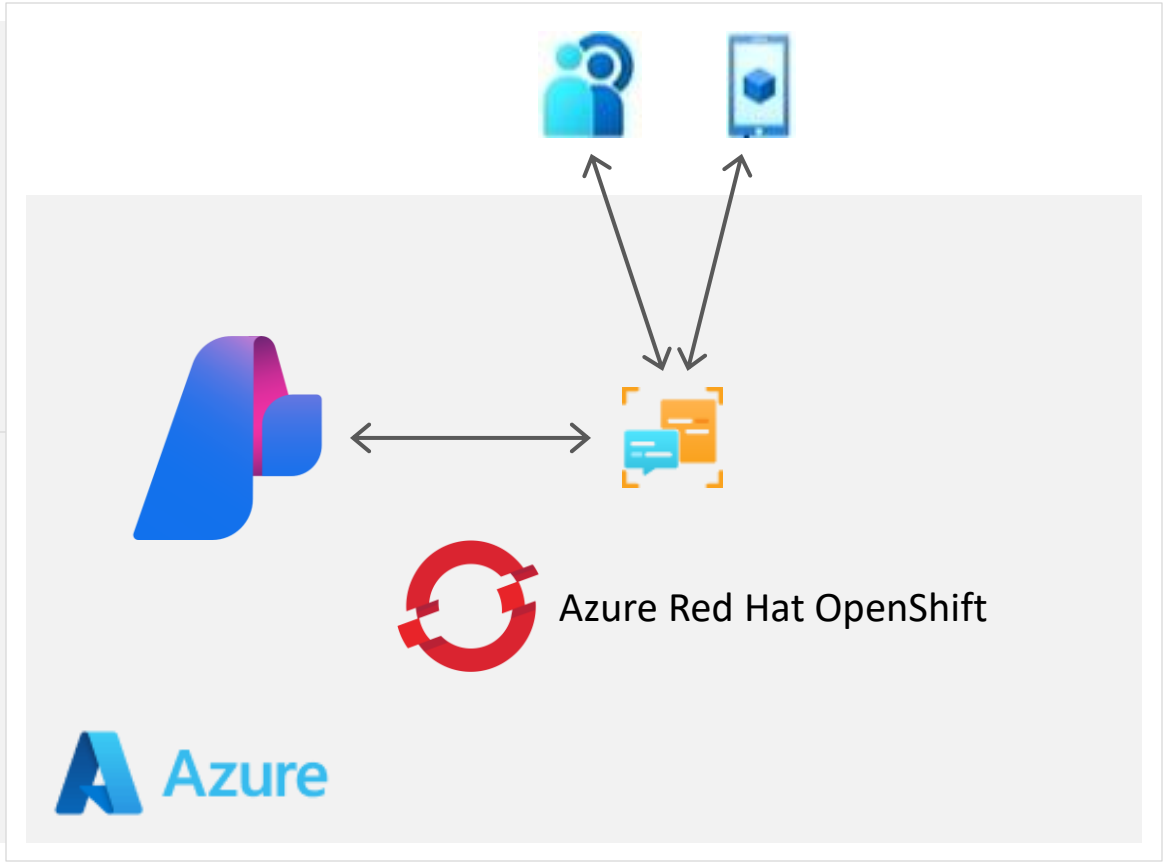
Building an agentic world



Microsoft has different ways of building agent systems

Deploy AI Apps on Azure Red Hat OpenShift: Connecting OpenAI Services

- Deploying an AI App on Azure – Selecting the right model
- Building a project on ARO to deploy your AI App



Azure AI Dev Basics

Copilot Studio

Visual Studio

GitHub

Azure AI
Foundry SDK

Model Catalog

Foundational models | Open-source models | Task models | Industry models

Azure
OpenAI Service

Azure AI
Search

Azure AI
Agent Service

Azure AI Content
Safety

Azure
Machine Learning

Evaluations | Customization | Governance | Monitoring

Observability

Application/Integration Layer





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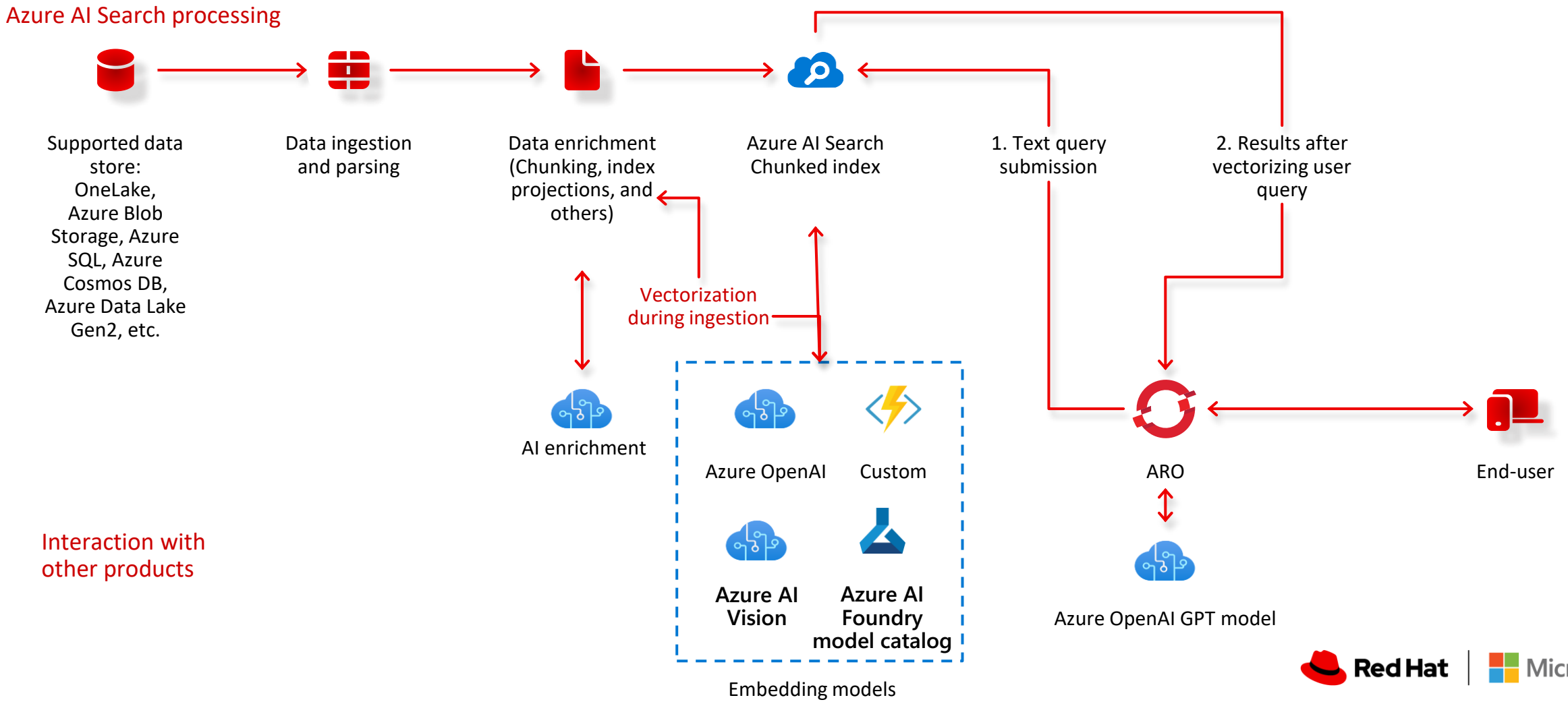
Integrated vectorization visualization

End-to-end Data Ingestion, Native Parsing, Fixed-Size Chunking, Vectorization, and Advanced Retrieval with ARO and AI Search indexers



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OpenShift Virtualization Public Preview

Public preview

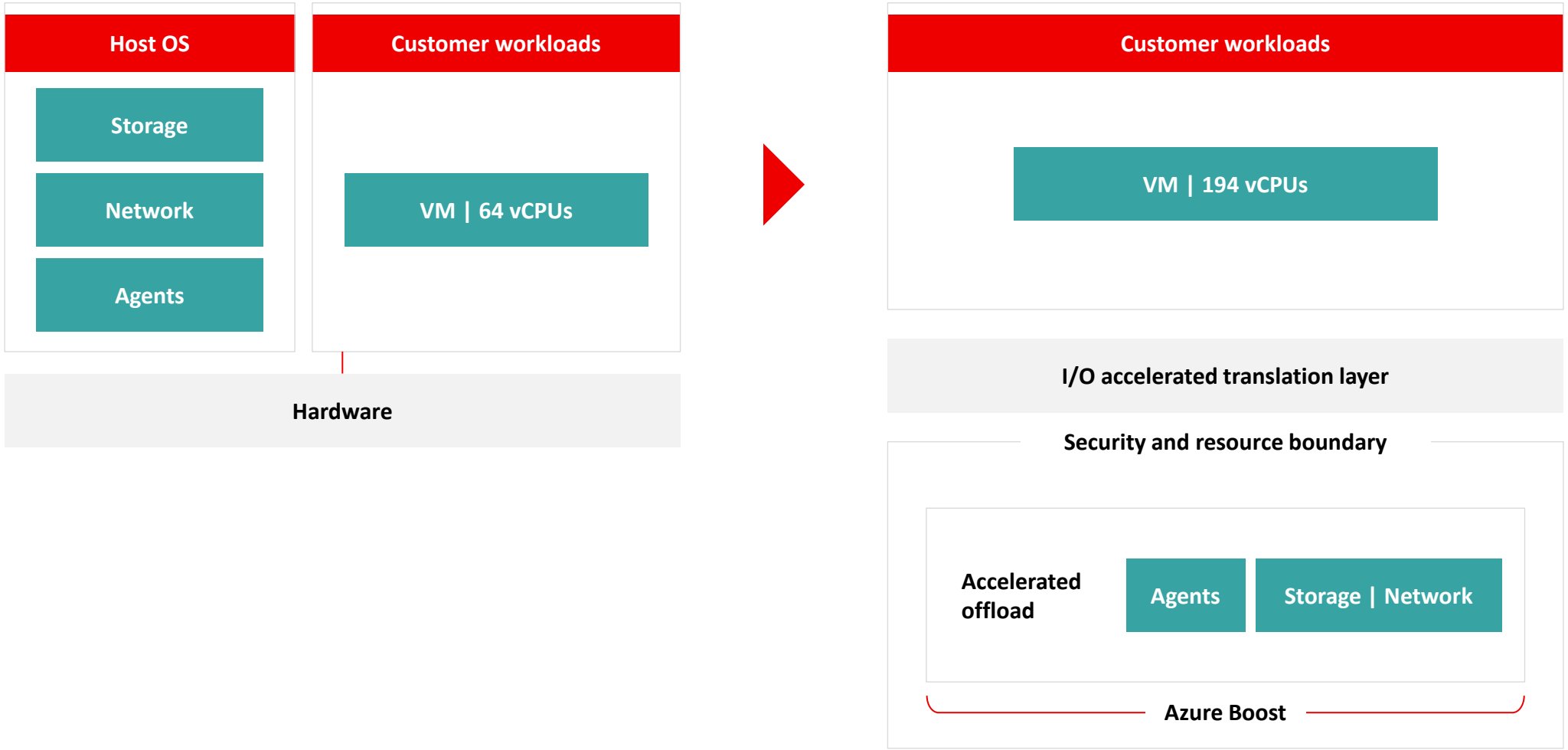
OpenShift Virtualization on Azure Red Hat OpenShift (ARO)

Run VMs and containers together. Simplify modernization. Accelerate cloud adoption.

Migrate Virtual Machines seamlessly	Modernize applications at your pace	Unified management for VMs and containers

https://aka.ms//aro-virtualization

Infrastructure acceleration through Offload



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Next steps

Call to Action

1	**Envisioning workshop**	Define strategy and desired outcomes using Microsoft Cloud Adoption Framework
2	**Assessment**	Assess your estate & plan your migration and modernization journey with tooling, guidance, and recommendations
3	**Pilot and proof of value**	Gain confidence and see technical proof with expert support from Microsoft and partners
4	**Programs and guidance**	Securely move your estate to the cloud with confidence, proven best practices & funding to accelerate

Getting started is easy

Building AI Applications on ARO - Practical Lab

OpenShift virtualization on ARO Announcement

Aka.ms/ARO-Virtualization

Quick Start Guide
red.ht/azure-path

The Enterprise Cloud and the Enterprise Linux