4 ways Red Hat helps you migrate and modernize on Microsoft Azure

Red Hat and Microsoft provide a consistent foundation across infrastructure, applications, virtualization, and automation to help streamline operations and strengthen security posture while preparing for AI opportunities. Here are 4 ways that joint solutions help you migrate and modernize.

1 Migrate and modernize infrastructure

Modernizing starts with a consistent, security-focused operating foundation.

Red Hat® Enterprise Linux® for Microsoft Azure provides a pretuned, ready-to-run image optimized for Azure to accelerate deployment and reduce manual configuration. Built-in capabilities such as secure boot and image attestation maintain workload integrity throughout migration. Red Hat Ansible® Automation Platform orchestrates the migration process end-to-end, from workload assessment to post-migration operations, helping teams reduce manual work and maintain compliance throughout.

▸ Move workloads confidently with Red Hat Enterprise Linux for Microsoft Azure.

▸ Use Ansible Automation Platform to assess, migrate, and manage workloads across environments.

▸ Run virtual machines (VMs) and containers together with Red Hat OpenShift® Virtualization.

▸ Manage migrations with Migration Toolkit for Virtualization (MTV).

▸ Streamline large-scale VM migrations using Ansible Automation Platform certified migration collection.

2 Accelerate application delivery and innovation

Accelerate time to market with a unified application platform designed for innovation.

Microsoft Azure Red Hat OpenShift provides a fully managed and consistent application platform for developing, deploying, and managing various workloads such as AI-powered and containerized applications and deployments on VMs.

▸ Reduce time to market with built-in cloud-native tools such as OpenShift Pipelines and OpenShift GitOps.

▸ Streamline operations with automated deployment and management of Red Hat OpenShift clusters with a dedicated site reliability engineering (SRE) team.

Red Hat OpenShift AI on Azure Red Hat OpenShift allows organizations to operationalize AI at scale, helping teams move from AI pilot projects to production faster.

▸ Integration of MLOps and DevOps workflows for collaboration across teams.

▸ Automate configuration, testing, and deployment through Ansible Automation Platform.

3 Streamline and automate hybrid operations

Unified management and automation reduces complexity across hybrid environments.

Red Hat and Microsoft combine consistent platforms with integrated automation tools to streamline operations and reduce overhead.

Red Hat Enterprise Linux for Microsoft Azure provides the stable operating foundation, while Ansible Automation Platform on Azure automates lifecycle management and policy enforcement. Azure Red Hat OpenShift automates the deployment and management of Red Hat OpenShift clusters with a dedicated SRE team.

- ▸ Streamline operations with unified visibility across datacenter, edge, and Azure.

- ▸ Automate provisioning, scaling, and Day 2 operations with Ansible Automation Platform.

- ▸ Use Azure Arc and Red Hat Lightspeed (formerly Red Hat Insights) to manage and optimize distributed environments.

- ▸ Maintain consistency and compliance across hybrid deployments with Red Hat OpenShift.

4 Strengthen security posture and compliance

Evolving regulations and threats require integrated, automated defenses.

Together, Red Hat and Microsoft provide built-in security capabilities and automation that help maintain compliance across hybrid and sovereign cloud environments. From infrastructure to AI workloads, gain continuous protection and proactive monitoring through a connected ecosystem of Red Hat and Azure technologies.

- ▸ Protect workloads with built-in safeguards in Red Hat Enterprise Linux for Microsoft Azure.

- ▸ Strengthen governance with Red Hat Advanced Cluster Security for Kubernetes and Red Hat Advanced Cluster Management for Kubernetes.

- ▸ Automate policy enforcement and AIOps with Ansible Automation Platform.

- ▸ Build and manage AI workloads with a security focus using Red Hat Enterprise Linux AI and OpenShift AI.

Learn more about how Red Hat and Microsoft can help

Visit the Red Hat on Microsoft Azure page to learn more about migration, automation, and AI-ready modernization.

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