

## PRESIDIO, MICROSOFT &amp; AMD

## Futureproofing Linux and PostgreSQL workloads in Azure cloud



Enterprises are drawn to the resiliency, scalability, and heightened security advantages of an open, unified, elastic, and resilient cloud. Yet a complex IT landscape and the limitations of on-premises environments create roadblocks that undermine cloud migration and modernization.

Facing an array of challenges—from rising costs to growing technical debt—organizations seek an off-ramp to traditional data center strategies and on-premises platforms. They aim to achieve more reasonable licensing terms and improve economies of scale. They also need a robust infrastructure and ecosystems for enabling AI innovation.

### THE SOLUTION: MICROSOFT AZURE AND AZURE DATABASE FOR POSTGRESQL

Migrating and modernizing Linux and PostgreSQL applications and workloads in the Microsoft Azure cloud helps enterprises save costs, innovate faster, and maintain compliance and control, all while boosting their ability to differentiate with AI. With Linux running in Azure-based VMs and with access to fully managed databases like Azure Database for PostgreSQL, enterprises can orchestrate a seamless cloud transition.

Business benefits include:

- ◆ **Improved cost efficiencies** garnered by reduced infrastructure expenses, pay-as-you go and reserved pricing models, as well as the elimination of license and support costs.
- ◆ **Improved performance and agility** via accelerated deployment, dynamic scaling, and enhanced development velocity.
- ◆ **Enterprise readiness** for reliable operations garnered through measures such as built-in high availability and disaster recovery capabilities, geo-redundant backups, and advanced security features.

### KEY CAPABILITIES OF MICROSOFT AZURE AND AZURE DATABASE FOR POSTGRESQL

- ◆ Fully managed and intelligent open-source PostgreSQL that supports the latest open source database versions, ensuring automatic maintenance, patching, and updates.
- ◆ Intelligent recommendations to help teams eliminate bottlenecks and ensure peak performance tuning.
- ◆ Ease of migration accomplished through backwards compatibility, no requirements for code changes, and built-in migration tooling. Database performance is improved up to 65% with Azure Database for PostgreSQL, and database migrations can take place in hours, not weeks, according to Enterprise Strategy Group.<sup>1</sup>
- ◆ Support for a highly available database with 99.99% SLAs and a choice of zones for geo-redundant backups, helping to ensure quick retrieval of lost data and maintain business continuity.
- ◆ Database monitoring and optimization tools for independently and dynamically scaling compute and storage based on enterprise workload needs.
- ◆ Stop/start features, burstable, and pay-as-you-go and reserved pricing models for lowering the total cost of ownership.
- ◆ Enterprise-grade security and built-in compliance that covers regulations, including HIPAA, PCI DSS, FedRAMP, and ISO.
- ◆ Access to the full spectrum of Azure enterprise-level native tools for database workflows.
- ◆ A trusted and AI-ready foundation with seamless integration to Azure AI Services as well as built-in AI capabilities.



<sup>1</sup> <https://go.microsoft.com/fwlink/?linkid=2313805>

## Futureproofing Linux and PostgreSQL workloads in Azure cloud

### THE POWER OF AMD AND MICROSOFT

Azure offers a range of AMD VMs to help enterprises transition on-premises workloads to the cloud. Today, four generations of AMD EPYC™ CPUs and other technologies like AMD Instinct™ GPUs power over 40 unique Azure VMs with Linux support. The wide variety of options gives customers flexibility in mapping the appropriate computing horsepower to their specific workload and application needs.

The newest Azure VMs based on 4th Gen AMD EPYC™ CPUs provide significant performance gains and cost benefits. This ensures customers running Linux-based workloads like Redis can save nearly 22% in cloud operational expenses with general purpose VMs and nearly 49% with compute-optimized VMs compared to other x86 options available.<sup>2</sup> Customers can find AMD based infrastructure in nearly every Azure region.

### WHY CHOOSE PRESIDIO AND MICROSOFT?

- ◆ Presidio and Microsoft have forged a partnership to help organizations navigate cloud migration and modernization in a way that best meets their core business objectives.
- ◆ As a top 5% Microsoft Cloud Partner (MCP), Presidio has expansive proficiency in management, architecture design, and optimization tuned for the Azure cloud. Presidio's experts guide enterprises at every step of their Azure migration and modernization journey.
- ◆ Presidio helps organizations bridge the gap between foundational IT services in areas like networking, converged and hyper converged infrastructure, and applications development with the new AI-enabled cloud. The team brings expertise in DevOps & Automation, AI & GenAI, and application and operating system migrations.
- ◆ Presidio's experts are equipped with more than 140 Azure Fundamental Certifications along with 300+ Azure Technical Certifications. Presidio's team is fluent in the Microsoft Azure AI Platform as well as building and modernizing AI apps in Azure.
- ◆ Presidio has offices and consultants worldwide, with over 3,700 team members across 50+ global locations.



For more information, visit –  
<https://www.presidio.com/partners/microsoft>

<sup>2</sup> <https://www.amd.com/en/legal/claims/epyc.html#q=sp5c-084&sortCriteria=%40title%20ascending>