

New Principled Technologies study highlights the features and benefits of Dell AX System for Azure Local with PowerFlex

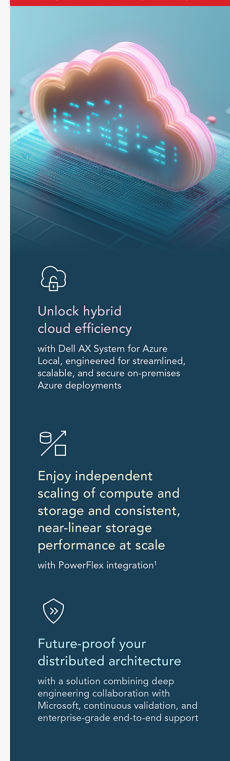
PT research revealed that the integrated solution offered scalability, flexibility, and high performance

ROUND ROCK, TX, UNITED STATES, August 25, 2025 /EINPresswire.com/ -- As enterprises increasingly adopt hybrid cloud and distributed cloud strategies, the demand for infrastructure that can scale seamlessly, perform reliably, and adapt to evolving needs has never been greater. To answer this need, Microsoft offers Azure Local, which “enables customers to deploy and manage VMs and containers to on-premises infrastructure—across multiple sites or data center—directly from Azure, just as they can any other Azure resource,” according to a new research report from Principled Technologies (PT).

The Dell AX System for Azure Local, a Microsoft Premier Solution for Azure Local, is a hyperconverged infrastructure (HCI) for deploying on-premises Azure Local instances. Per the PT research report, when integrated with Dell PowerFlex external block storage, this solution delivers “a powerful solution for organizations seeking to modernize their hybrid cloud infrastructure without compromising control or performance” while leveraging “massive scalability, high performance, and high availability capabilities or PowerFlex storage with the operational benefits



A Principled Technologies report: In-depth research. Real-world value.



Unlocking hybrid cloud efficiency: Dell AX System for Azure Local with PowerFlex

As organizations increasingly embrace hybrid cloud and distributed cloud strategies to meet evolving business demands, the need for scalable, flexible, and high-performance data center infrastructure has never been greater. While public cloud capabilities continue to grow, the data center remains a critical hub for enterprise-scale workloads and long-term infrastructure investments. In response to the hybrid cloud imperative and the operational challenges it presents, Microsoft offers Azure Local, which enables customers to deploy and manage VMs and containers to on-premises infrastructure—across multiple sites or data centers—directly from Azure, just as they can any other Azure resource.¹ This unifies and streamlines operations, governance, and maintenance by consolidating distributed on-premises infrastructure and Azure cloud infrastructure into a single centralized management and control plane. Azure Local supports a robust subset of Azure Arc-enabled services running on-premises,² enabling a consistent application development experience and streamlining operations across distributed hybrid cloud ecosystems.

The Dell AX System for Azure Local is a Microsoft Premier Solution for Azure Local that consists of deliberately engineered, preconfigured, and continuously validated hyperconverged infrastructure (HCI) for deploying on-premises Azure Local instances.³ Dell AX System delivers a powerful solution for organizations seeking to modernize their hybrid cloud infrastructure without compromising control or performance. When integrated with Dell PowerFlex external block storage, Azure Local on the Dell AX System enables organizations to leverage the massive scalability, high performance, and high availability capabilities of PowerFlex storage with the operational benefits of an Azure-native unified hybrid cloud resource management plane. It also enables organizations to right-size their workload infrastructure by allowing for independent scaling of compute and storage resources.⁴ Extensive testing by the Dell performance engineering team also demonstrates that PowerFlex storage performance scales consistently and predictably as Azure Local instance size increases.⁵

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of an Azure-native unified hybrid cloud resource management plane.”

The research report from PT explores in depth many aspects and features of Dell AX System for Azure Local with PowerFlex, including Azure Resource Manager (ARM) templates, Azure Stack HCI, Dell OpenManage integration with Windows Admin Center, Azure Arc-enabled services, and more. PT also highlights performance testing from Dell, showing that across four workload profiles, storage performance scaled with the number of nodes, “with minimal performance degradation even at larger instance sizes,” according to the report.

The report concludes, “Together, the Dell AX System for Azure Local and PowerFlex empower enterprises to streamline operations, consolidate workloads, reduce infrastructure silos, and future-proof their hybrid cloud environments while maintaining centralized control across deployments and physical sites through the Azure portal. If your organization is facing challenges with scaling storage independently of compute resources, accommodating a diverse variety of workload types in a single universal storage layer, or operating at a scale where consistent performance and availability are critical, Dell AX System with PowerFlex could deliver the flexibility, performance, and resilience your hybrid cloud strategy needs.”

To learn more, read the research report at: <https://facts.pt/EtRw6nh>.

About Principled Technologies, Inc.

Principled Technologies, Inc. is the leading provider of technology marketing and learning & development services.

Principled Technologies, Inc. is located in Durham, North Carolina, USA. For more information, please visit www.principledtechnologies.com.

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