Intelligent Storage: Gain Efficiencies and Streamlined Management with HPE and PDS

Eliminate infrastructure complexity and overprovisioning of storage resources, while providing reliability for business- and mission-critical workloads.

Managing data storage across disparate silos — on-premises, cloud, and increasingly at the edge — can be time consuming and ineffective. Especially if there is a lack of visibility throughout the stack, it's challenging to quickly identify issues and capacity needs, while ensuring constant data availability to the business.

In addition, procurement, patching, and upgrading disaggregated storage can easily divert IT teams from delivering day-to-day IT services.

A flexible, scalable, intelligent solution can address these issues, ensure time and cost efficiencies, and provide highly reliable data storage.

The pains of complexity

Many enterprises are now managing data for hybrid environments that span public clouds, on-premises infrastructure, and edge computing for IoT and AI applications. Storage for each of these locations is critical toward ensuring always-on data.

Yet, simply managing the storage cost considerations across this stack can be daunting. Most companies overprovision resources rather than fall short and face business disruption. That means they're typically overpaying for capacity that sits idle or isn't used at all. According to Futurum Research:

- 97% of companies overprovision by 10% or more
- 44% overprovision by 25% or more

The challenges go beyond cost concerns. Complexity is also a time killer. Procuring, provisioning, maintaining, and securing resources across infrastructure diverts IT teams from supporting internal customers. That's because many of these tasks are still manual. Even getting clear insights into how storage resources are performing requires piecing together information from each storage silo. The danger here is that without visibility, the potential risks of downtime or security issues increase.

A flexible, intelligent solution

HPE helps organizations proactively manage storage to increase efficiency and reduce the burden on IT teams. For example, HPE Alletra is an intelligent storage solution that supports mission- and business-critical workloads. It provides:

- Extreme availability, performance, and architectural flexibility
- Automated functionality to meet the specific needs of each application and workload
- Built-in security for compliance and access control

Alletra collapses infrastructure silos by abstracting the data infrastructure control plane from the data plane, and moving it to the cloud for a single, consistent operational experience. Instead of configuring hardware platforms, IT departments deliver data storage as a service to meet the changing demands of workloads. Doing so shifts IT from owning and maintaining data infrastructure to simply accessing and using it on demand, while also providing data everywhere. No more overprovisioning or resources sitting idle.

In addition, HPE Alletra is powered by HPE InfoSight, which provides AI-driven intelligence to predict and prevent disruptions across servers, storage, and virtual machines. InfoSight collects and analyzes data from more than 100,000 systems worldwide and leverages those insights for actionable recommendations that save time having to dig for root causes. It automatically resolves 86% of issues with its self-managing, self-healing, and self-optimizing capabilities.

The intelligent storage experience is brought together by the HPE Data Services Cloud Console, which seamlessly orchestrates data workflows from on-prem to edge and cloud. It provides rapid visibility across the storage infrastructure stack that:

- **Simplifies deployment.** New devices are automatically discovered, on-boarded, and configured.
- **Provides intent-based provisioning.** Intelligently provisions application workloads on infrastructure best-suited to optimize service-level agreements.
- **Enables invisible upgrades.** New features and enhancements are instantly available through cloud-delivered upgrades.
- **Empowers IT to manage from anywhere**. Simple global management is driven through a user-friendly, SaaS-based experience.

Achieve reliable, stable storage solutions with the right partner
HPE partners make it possible for enterprises to quickly design, build, and implement intelligent storage — cost effectively for great performance results.

For example, Paragon Development Systems (PDS) is a Platinum HPE partner that works closely with its customers to implement best-fit solutions

Thanks to decades of partnership, PDS is "technically invested" in HPE products, says Bob Powell, Principal Solution Architect at PDS. "We bring solutions to our customers in ways that are most impactful for them and that never get in the way of what they're trying to achieve."

PDS works with customers from assessment to implementation and beyond, Powell says. "We look at the whole picture: system design, architecture, storage and networking, and cloud."

The company also offers managed services — including maintenance, patching, and upgrades – on a regular cadence or as-needed basis. These services can fill gaps in IT teams or expertise on the latest HPE solutions.

"We're joined at the hip with HPE and have deep knowledge of these products to help customers transform and become more efficient," Powell says.

Take the next step
Gain efficiencies and eliminate complexity with intelligent storage and services. PDS can help you achieve reliable, stable performance and simplified management across your IT infrastructure.

For more information, visit https://pdsit.net/