IBM AIX on IBM Hyperconverged Systems powered by Nutanix

Today’s global business must rely on an infrastructure that is secure, highly available and able to adapt quickly to changing business needs. AIX™, an enterprise-class UNIX operating system (OS) for the POWER processor architecture found in IBM® Hyperconverged Systems powered by Nutanix, delivers these capabilities and more, with the performance, reliability and security that your mission-critical data demands.

With a 30-year history of innovation, AIX continues to deliver on its robust roadmap with every release. The long-standing AIX focus on binary compatibility allows applications to run unchanged and without recompilation on the newest releases—guaranteed.

Furthermore, AIX maintains a strong, long-standing security focus and reputation. Security features include Trusted AIX, to easily harden system security settings, and Trusted Execution, to control system integrity. In addition, AIX boasts best-in-class reliability, and is well recognized as having the lowest unplanned downtime year after year. IBM servers are consistently considered the “most reliable” by industry analysts.

Focus on Applications, Not Infrastructure

Nutanix Enterprise Cloud software enables simple management, nimbleness and cost efficiency for AIX environments, allowing IT experts to spend more time optimizing performance and extracting insight from applications and data. It does this with:

- **Cloud-oriented design.** Brings the latest innovations from web companies to the on-premises data center enabling endless, predictable, scale-out resources and built-in self-healing.
Building block approach. Start small and grow linearly by adding nodes one at a time. IT can buy only what’s needed – which shrinks the data center footprint for OpEx and CapEx savings.

Simple management. Installation, deployment, backup and ongoing management are done with just a few clicks. This speeds up application deployment, administration and capacity expansion.

IBM AIX runs on IBM Hyperconverged Systems powered by Nutanix software. Leveraging the IBM® OpenPower™ LC Systems platform and the POWER® microprocessor, the IBM Hyperconverged Systems are designed for data-intensive workloads, providing more threads per core, and an addressable cache size beyond that found on commodity processor-based systems. These benefits translate into superior performance for AIX applications running on POWER.

Ease of DevOps

Data locality. Nutanix continuously monitors data access patterns and places data in the most appropriate location.

Next generation virtualization. Designed for the era of unstructured data, Nutanix AHV is a hypervisor that accelerates deployment and eases management. It is included at no extra cost with purchases of IBM Hyperconverged Systems powered by Nutanix, eliminating virtualization licensing costs.

Self-healing infrastructure. A Nutanix enterprise cloud is resilient by design. If a drive or node fails, workloads are automatically restarted, and full resiliency is restored quickly without operator intervention, protecting applications from unplanned downtime.

Built-in availability. Data protection, disaster recovery, and high availability are integral to the Nutanix environment, delivering higher application availability with less time and effort.

One-click management. With Nutanix Prism, systems administrators easily monitor and manage all infrastructure, gaining full visibility of storage, CPU, and memory resources across IBM Power and Intel x86-based servers from a single pane of glass. One-click software, hypervisor, and firmware upgrades, and one-click problem remediation, take the pain out of day-to-day operations.

Infrastructure fit. Put your most data intensive workloads on the servers that were born to run them with IBM Hyperconverged Systems powered by Nutanix.

Increase Security without Adding Silos

To ensure the security of sensitive data, many system administrators find they have no choice but to deploy dedicated infrastructure for each application. However, AIX applications can be deployed securely on a IBM Hyperconverged Systems powered by Nutanix along with other workloads, avoiding the need for a separate silo of infrastructure.

Nutanix also combines features such as two-factor authentication and data-at-rest encryption with a security development lifecycle. Nutanix systems are certified across a broad set of evaluation programs to ensure your compliance with the strictest standards.
Frees you up from managing infrastructure
Delivers superior performance
Simplifies Resiliency

For More Information:
IBM Hyperconverged Systems powered by Nutanix:

73% Less
Time to deploy compute*

61% Less
Time to manage*

97% Fewer
Occurrences of downtime*

(2) “ITIC 2016 Global Server Hardware, Server OS Reliability Report” (PDF, 827 KB), February 2016.


Nutanix makes infrastructure invisible, elevating IT to focus on the applications and services that power their business. The Nutanix enterprise cloud platform leverages web-scale engineering and consumer-grade design to natively converge compute, virtualization and storage into a resilient, software-defined solution with rich machine intelligence. The result is predictable performance, cloud-like infrastructure consumption, robust security, and seamless application mobility for a broad range of enterprise applications. Learn more at www.nutanix.com or follow us on Twitter@nutanix.

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