PURESTORAGE®

EQUINIX
WHERE OPPORTUNITY CONNECTS

SOLUTION BRIEF

High-Performance Interconnected Storage at the Edge

Utilize Equinix® and Pure Storage® disruptive digital leadership with a cloud-adjacent model.

When you leverage Pure Storage all-flash storage solutions in Equinix data centers and harness their industry-leading global platform, you can build a best-of-breed, cost-optimized hybrid multicloud architecture with unparalleled performance. Solve the formidable challenges of data silos and cloud transformation, all while unlocking critical business insights that help you stand out in a challenging business environment that has an increasingly thinner margin for decision error.

Global Platform for Digital Leaders

Innovative enterprises and service providers harness Equinix's trusted global platform to interconnect the foundational infrastructure that powers their success. Today, time to market is key to survival and success for a business. With Equinix's largest, most active global ecosystem of near 10,000 companies, Pure Storage's multicloud, easy-to-use storage solution on Equinix Metal gives you the low latency and unparalleled access to all the right places, partners, and possibilities you need to achieve digital transformation.

Public Cloud and IT Services Interconnectivity

Data in today's economy continues to grow exponentially. By 2025, Gartner predicts that 75% % of enterprise-generated data in industrial settings with be created and processed at the edge, which is an increase from less than 20% today[1]. Network latency, however, can greatly diminish application performance. Pure Storage on Equinix Metal provides the public cloud adjacency, data aggregation, and IT services that fuel sub-millisecond latency, great flexibility, and fantastic application performance. By leveraging the power of direct interconnection to clouds, you can significantly optimize your network throughput and productivity.

Global Platform

Leverage Equinix fabric for secure, on-demand, virtual connectivity in the industry's largest infrastructure ecosystem.

Public Cloud Interconnectivity

Fuel platform flexibility and application performance with public cloud adjacency.

Performance, Availability, Security

Equinix environments on Pure all-flash arrays provide the industry's best performance, availability, and security.

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[1] Gartner Market Guide for Industrial IoT Gateways. Published March 31, 2020, ID: G00466564.

Unrelenting Performance, Availability, and Security

Current IT architecture needs to be fast, API-driven, and completely secure. Secure by design and API-first, Pure Storage on Equinix Metal provides you with unrelenting performance, scalability, and 99.9999% availability on FlashArray™, even through generational upgrades of infrastructure. Pure Storage's solutions provide built-in data protection and disaster recovery services like instantaneous, space-efficient, and unlimited snapshots and off-site replication. Equinix's environment provides data security with AES-256-bit data-at-rest encryption and is compliant with PCI DSS, NIST 800-53/FISMA, SOC 1 Type II, SOC 1 Type II, and HIPAA.

Industries

Pure Storage on Equinix Metal dramatically improves the performance of complex workloads across industries.

Electronic Design Automation

The demand for ever-increasing functionality in smart devices is driving up silicon chip complexity, which is at the heart of these systems. To compound the challenge for chip designers, consumers are demanding more performance per watt to improve the battery life and sustainability of their products. EDA test and development environments tend to have very high levels of concurrency and parallelism. Compute environments often have tens to hundreds of thousands of cores, with many jobs accessing the same project folders and performing huge amounts of concurrent I/O operations. In these circumstances, storage can often become a performance bottleneck with a significant impact to EDA job run times. A critical capability of storage in EDA and high-performance computing environments is the ability to scale storage performance linearly as needed to mitigate the effect of storage-related slowdowns. The Equinix environment on Pure Storage scales seamlessly up to several million IOPs and 75GB/s. This capability eliminates storage performance bottlenecks and unleashes engineers' full capabilities to design next-generation sub-10nm silicon chips.

Oil and Gas

Geoscientists today face the challenge of working with siloed and unstructured data at massive scale. Petabytes of data captured over 30 to 40 years in some cases have to be analyzed to extract critical business insights. These workloads are well-suited for high-performance computing infrastructures. The need for tracking, mapping, and monitoring of existing resources and the visualization of exploration data means fast application performance is critical. The all-flash solutions from Pure Storage on Equinix Metal unleash great resource productivity and fast data access.

Healthcare

Massive growth in healthcare data volume has greatly increased analytical challenges and placed ever-increasing demands on compute and storage infrastructure. Researchers have leveraged high-performance computing environments and cluster computing to meet demands, but today even the fastest compute environments are constrained by the lagging performance of the underlying storage. Even in one of the world's most data-rich industries, a treasure trove of data remains unused and locked in silos with its value left unrealized. For example, legacy storage solutions, many from designs that are more than 15 years old, simply cannot maintain the necessary latency, concurrency, and metadata access required for genomic sequencing. The Modern Data Experience™ as Pure envisions it enables data storage as a service that allows your organization to extract

 maximum value from its data while reducing complexity and expense. Pure Storage on Equinix Metal enables fast and easy scaling and helps transform big data into intelligent data, solving the performance and complexity challenges associated with healthcare's special challenges. This enables enterprises to derive fantastic business insights unlocking competitive edge.
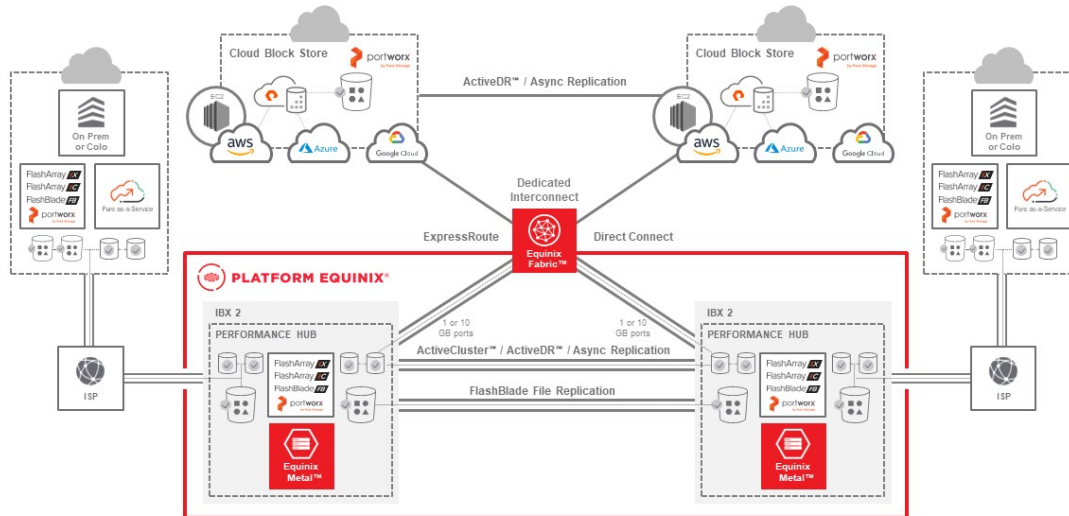

Figure 1: Pure Storage on Platform Equinix.

About Equinix and Pure Storage

Equinix is the world's digital infrastructure company. Digital leaders harness our trusted platform to bring together and interconnect the foundational infrastructure that powers their success. We enable our customers to access all the right places, partners, and possibilities they need to accelerate advantage. With Equinix, you can scale with agility, speed the launch of digital services, deliver world-class experiences, and multiply their value.

Pure Storage gives technologists their time back. Pure delivers a Modern Data Experience that empowers organizations to run their operations as a true, automated, storage-as-a-service[2] model seamlessly across multiple clouds. Pure helps customers put data to use while reducing the complexity and expense of managing the infrastructure behind it.

Pure Storage's Pure1® platform is a cloud-data-management solution powered with the Pure1 Meta® platform, an AI and machine learning (ML) engine that processes more than a trillion telemetry data points per day[3]. It provides 24x7 end-to-end visibility and enables predictive analytics and planning across your entire storage fleet. Pure's customer-first processes make Pure an industry leader, with an Owen OX Cognition certified score of 82, placing Pure in the top 1% of business-to-business (B2B) companies in customer satisfaction and loyalty. This all translates into a truly fantastic customer experience.

Visit www.equinix.com and www.purestorage.com to learn more or contact us at purestorage@equinix.com or (888)342-8890 to speak with our experts.

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[2] OPEX treatment subject to customer's auditor's review.
[3] From Pure Storage's real-time Pure1 AI engine–based data.

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