PURESTORAGE®

EQUINIX
WHERE OPPORTUNITY CONNECTS

Amplify Hybrid Cloud Strategy with Equinix Metal and Portworx

Deploy, secure, run, and protect your mission-critical data services across your hybrid cloud.

Fifty-seven percent of enterprises have a strategic vision for hybrid IT[1]. Because data is at the heart of enterprise applications, you can't have an effective hybrid strategy without a data strategy. A data strategy is especially critical when running applications on Kubernetes where traditional and VM-optimized storage, data protection, and data management don't work. To run stateful applications in highly dynamic and mobile environments like Kubernetes-based Google Anthos, you need scalable, on-demand persistent storage, embedded data security, effortless data protection, and the ability to move entire applications between on-prem and cloud. Portworx® for Google Anthos on Equinix Metal™ meets that need.

Portworx, the Leader in Kubernetes Storage

Portworx Enterprise is the Kubernetes data-services platform that businesses trust to run mission-critical applications in containers in production. Only Portworx provides a fully integrated solution for persistent storage, data protection, disaster recovery, data security, cross-cloud and data migrations, and automated capacity management for applications running on Kubernetes. As a result, Portworx is the #1 most-used Kubernetes data services platform by Global 2000 companies, including Carrefour, Comcast, GE Digital, Kroger, Lufthansa, and T-Mobile. Portworx was named the Leader in the 2020 GigaOm Radar for Data Storage for Kubernetes report.

Up to 3x Faster Performance for Anthos Workloads on Equinix Metal

Don't let shared cloud compute and storage slow down your cloud-native applications. While flexible and automated, cloud deployments are often limited by virtual machine overhead, noisy neighbors, and slow network-attached block storage.

Market Leader

Rely on Portworx, the GigaOm Radar Kubernetes storage leader, for your cloud-native apps.

Dramatically Faster

Improve app performance up to 3x vs. running Google Anthos on GKE.

Data and App Protection

Run mission-critical apps on Google Anthos with confidence.

Effortless Mobility

Easily implement true multicloud operations.

For data-rich applications running on Kubernetes, Portworx on Equinix Metal for Google Anthos provides the best of both worlds: Complete application automation and scale with bare-metal speeds. Equinix Metal provides dedicated, physical servers that integrate with Equinix Fabric on demand. Since the hardware is preinstalled and everything is automated with APIs, you can deploy critical workloads at Equinix® in minutes, not months—just like with co-location, but faster. Testing shows that running a common data service like MongoDB via Google Anthos is three times faster when running it with Portworx on Equinix Metal compared to using GKE in Google Cloud.

Protect Your Data and Apps

According to 451 Research, 75% of IT professionals believe that you can back up containers the same way as applications[2]. The consequences of this misunderstanding can be dire. According to GigaOm Research, "without container-granular backup options for Kubernetes, enterprises are exposed to data loss, downtime and lost customer loyalty." Portworx protects any application running on Kubernetes with a comprehensive, self-service, and multi-tenant platform built for Kubernetes:

- PX-Secure embeds data security and access controls into your Kubernetes apps.
- PX-Backup provides a self-service interface and API to backup and restore any Kubernetes app.
- PX-DR enables true RPO-zero disaster recovery across Equinix Metal sites and clouds as well as over the WAN.

Ultimate Operational Flexibility

Equinix Metal serves as a virtual extension of your existing physical collocated infrastructure while reducing latency, improving availability and reliability, and decreasing costs. Portworx enables you to move entire Kubernetes applications (including data, application configuration, and Kubernetes objects) effortlessly between any Equinix sites running Google Anthos and Google Cloud. That means you get flexible, easy-to-replicate solutions for application mobility, including data. Now you can pick the right geographic location for each application and update it as business needs change.

Use Cases

Portworx by Pure Storage for Google Anthos on Equinix Metal dramatically improves the performance of complex workloads.

Enterprise Platform as a Service: Developers need an agile platform-as-a-service offering that enables them to focus on code, not operations. This shift is critical to fueling innovation, getting more from your data, and avoiding shadow IT. With a complete Kubernetes storage and data management solutions platform, Portworx enables your Anthos platform to run most enterprise applications, even those with strict performance, data protection, and security requirements.

Database as a Service: Developers love DBaaS offerings because they get the benefits of a database without doing the work of a DBA. But at two times the cost of running a database in containers, leveraging cloud-hosted DBaaS can become very expensive. With Portworx and Google Anthos, you can automate the manual aspects of administering many database instances, like storage provisioning, resizing, backups and restores, migrations, upgrades, and more, helping you save time and money.

Large-Scale Software-as-Service Apps: Running a large-scale SaaS isn't easy, which is what makes Google Anthos an attractive option. Built from the same building blocks that enabled Google to scale services like YouTube and Search, Google

Anthos automates your application compute and networking needs. By adding Portworx to your stack, you get the same agility, reliability, and protection for your data, enabling you to scale operations with a smaller team.

Edge Delivery (IoT for 5G): It's hard to keep up with the number of device endpoints and global points of presence increasing year over year. With eight core markets and 10 expansion sites globally, Equinix is the obvious choice to run 5G and edge computing workloads on Google Anthos. Use the Portworx software-only storage and data-management platform to scale your global presence through automation, reducing your IT footprint while increasing application reliability.

Artificial Intelligence and Machine Learning: Build out AI and ML solutions on Google Anthos, the managed application platform from the company that has made sophisticated data models mainstream with projects like TensorFlow and Kubernetes. Because data is key to success with AI and ML, adding Portworx into the mix simplifies developers' tasks to access, manipulate, and move the datasets they need to do their job. Equinix Metal serves as a virtual extension of the existing infrastructure, reducing latency, improving availability and reliability, and decreasing costs.

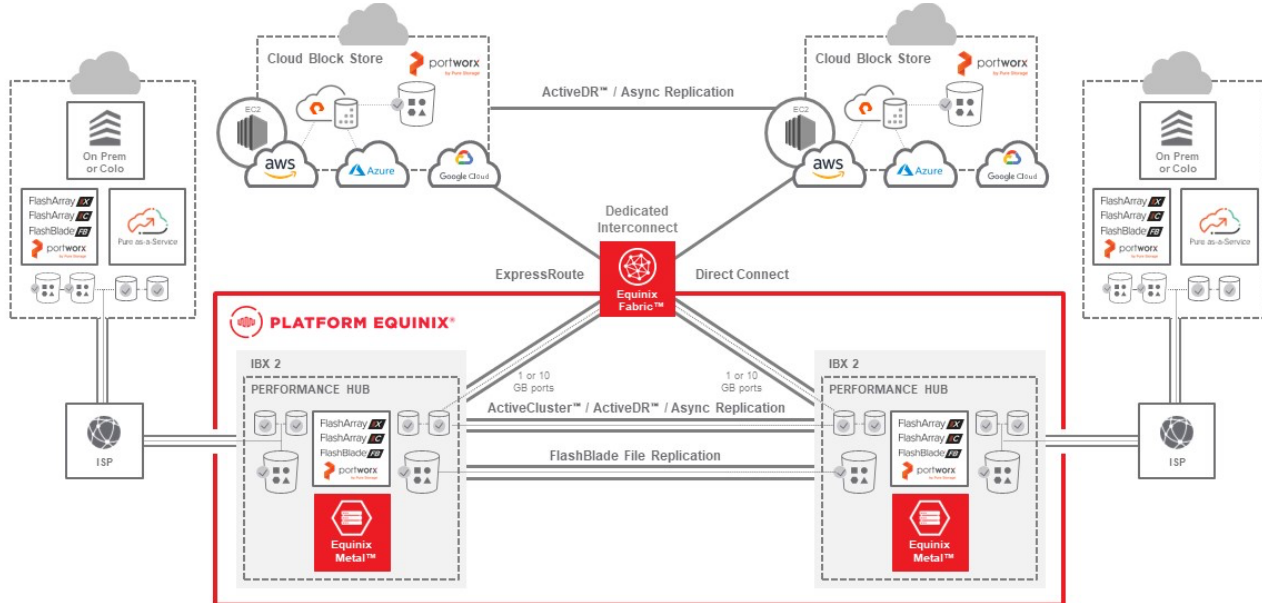## Portworx by Pure Storage on Equinix Metal

Figure 1. Pure Storage on Platform Equinix

About Equinix and Pure Storage

Equinix® is the world's digital infrastructure company. Digital leaders harness its trusted platform to bring together and interconnect the foundational infrastructure that powers their success. Equinix enables its 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[3] model seamlessly across multiple clouds. Pure helps you 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 ML engine that processes more than a trillion telemetry data points per day[4]. Pure1 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 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 purestorage@equinix.com or (888)342-8890 to speak with our experts.

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[1] 451 Research Voice of the Enterprise: Cloud, Hosting and Managed Services, Organizational Dynamics survey, Q2 2020

[2] ESG Master Survey Results, Data Protection Considerations for Containers, December 2020

[3] OPEX treatment subject to customer's auditor's review.

[4] From Pure Storage's real-time Pure1 AI engine–based data.

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