NetApp Private Storage for IBM Cloud

A hybrid cloud solution that combines IBM Cloud virtual and bare-metal servers with private, dedicated enterprise storage

Key Benefits

Extend IBM Cloud Services with Dedicated Enterprise Storage
Get elasticity and savings from IBM Cloud virtual and bare-metal servers with the performance and availability of dedicated enterprise storage.

Own and Control Your Data
Maintain complete control of your data on NetApp Private Storage (NPS) for IBM Cloud while benefiting from IBM Cloud compute.

Optimize Resources Across Public and Private Clouds
Balance your capex and opex profile and meet dynamic business needs by changing your mix of infrastructure resources on demand.

Match Compute Resources to Handle Variable Workloads
Avoid unplanned investment or outages for high-performance and low-latency enterprise applications:

• Big data analytics
• Development, test, and production
• Disaster recovery (DR)
• Cloud burst
• Transcoding
• Data center migration and consolidation
• Multicloud compute access

The Challenge
IBM Cloud provides cloud infrastructure as a service to born-on-the-web start-ups and global enterprises around the world. For many enterprises, the promise of instant, elastic, affordable cloud compute backed by IBM support and services is a very attractive business proposition. Yet before they transition to the cloud, organizations need to be truly confident that they can do so, while maintaining compliance mandates, data sovereignty, and complete control over their sensitive data.

NetApp Private Storage (NPS) for IBM Cloud
NetApp Private Storage for IBM Cloud is a hybrid cloud solution and the newest member of the NetApp Private Storage for Cloud family. The service combines the elasticity and savings of IBM Cloud compute with the performance, availability, and control of dedicated enterprise storage.

Extend IBM Cloud Services with Dedicated Enterprise Storage
Now IBM Cloud virtual and bare-metal servers can be enhanced for workloads that have strict data sovereignty and compliance requirements. When you use the NPS for IBM Cloud approach, your NetApp® storage is kept in an Equinix International Business Exchange data center, directly connected and close to IBM Cloud computing resources. Your storage and IBM Cloud servers are connected through IBM Cloud Direct Link, a private, secure, dedicated high-speed connection that outperforms and bypasses the Internet. IBM Cloud Direct Link is available through Equinix Cloud Exchange (ECX) so customers can quickly and easily connect their storage to IBM Cloud resources and other cloud providers. When you put your data "next to" rather than "into" the IBM Cloud, your compute resources feel local while your data remains secure and protected.

Address compliance regulations and data sovereignty laws
Because you control your storage, you know exactly where your sensitive data resides at all times. Equinix provides unmatched physical and environmental security with a patented five-layer system designed by the architects of the Federal Reserve's security system. The system includes 24/7 security staffing, biometric hand-geometry readers, and 24-hour video surveillance. For highly regulated industries, NetApp disk encryption helps you achieve even greater compliance.

■ **NetApp**®

IBM **Cloud**

NetApp Service Provider Partner

EQUINIX®

NetApp Alliance Partner

Same IBM Cloud User Experience with NetApp ONTAP Benefits

Many IBM Cloud services are already built on NetApp. Therefore, NPS for IBM Cloud offers the same user experience and popular features available with iSCSI SAN and scale-out NAS IBM Cloud services today. Benefits shared between NPS for IBM Cloud and the IBM Cloud platform include nondisruptive operations, scalability, efficiency, and integrated data protection, all based on the NetApp ONTAP® operating system.

Our team will recommend latency characteristics and capacity for your NPS for IBM Cloud solution based on your applications and workloads. NetApp and IBM Cloud can tune your NPS implementation to offer the same experience as you get with IBM Cloud Performance and Endurance Storage Services. In addition, NetApp and IBM Cloud have validated select enterprise solutions based on NPS for IBM Cloud, such as SAP on Oracle and Catalogic ECX DR.

Optimize resources across private and public clouds

You can balance your capex and opex profile and meet dynamic business requirements by changing your mix of infrastructure resources on demand. Quickly and easily move data and workloads between on-premises NetApp storage and NPS for IBM Cloud. IBM Cloud enables you to choose your preferred hypervisor: VMware ESXi, Micro Hyper-V, or Citrix Xen.

Multicloud Access

Like other members of the NPS for Cloud family, NPS for IBM Cloud supports multicloud compute access through Equinix Cloud Exchange. Once connected, you can add connections to more industry-leading clouds at any time, without moving your data. For a list of additional cloud connections and more information about NPS for Cloud, visit bit.ly/nps-cloud.

About IBM Cloud

IBM Cloud ensures seamless integration into public and private cloud environments. The infrastructure is secure, scalable and flexible, providing customized enterprise solutions that have made IBM Cloud the hybrid cloud market leader. Products and services include bare metal and virtual servers, networking, turnkey big data solutions, private cloud solutions, and more. Our unique advantages include the industry's first Network-Within-a-Network topology for true out-of-band access, and an easy-to-use customer portal and robust API for full remote-access of all product and service management options. For more information, visit **www.ibm.com/cloud-computing**.
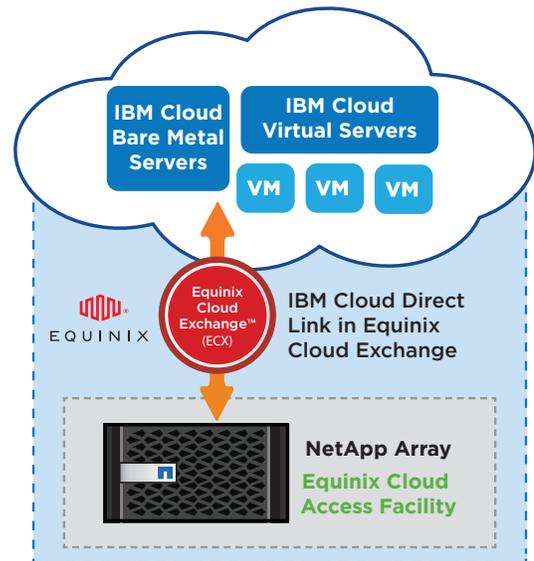

Figure 1) NetApp Private Storage for IBM Cloud: IBM Cloud Direct Link and Equinix Cloud Exchange connect your private storage to IBM Cloud virtual servers and bare-metal servers.

For More Information

Contact ng-ibm-cloud@netapp.com.

Additional Resources:

- IBM Cloud integration
- IBM Cloud Object Storage
- IBM Cloud Object Storage for data protection with NetApp AltaVault™

About NetApp

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation, and optimize their operations. For more information, visit **www.netapp.com**. #DataDriven