



EQUINIX PARTNER CASE STUDY

AVERE

A V E R E **Avere and Equinix redefine high performance in Google Cloud Storage**

“Equinix and Google Cloud Platform are two important pieces of the enterprise infrastructure used by our customers. Equinix Cloud Exchange and the Avere FXT Edge filer were proven to provide the high-bandwidth connectivity and edge caching needed to run high-performance applications like rendering, genomic analysis, and financial simulations in Equinix data centers or on customer premises while storing the data in Google Cloud Storage.”

- Jeff Tabor
Sr. Director, Product Management and Marketing
Avere Systems

Business Results

- Optimized access to Google Cloud Storage
- Up to 700x less latency
- Up to 10Gb/s throughput
- Allows applications requiring high IO, high throughput, low latency to connect in hybrid access model
- Supports next generation of media and entertainment, life sciences, and financial industry requirement

Executive Overview

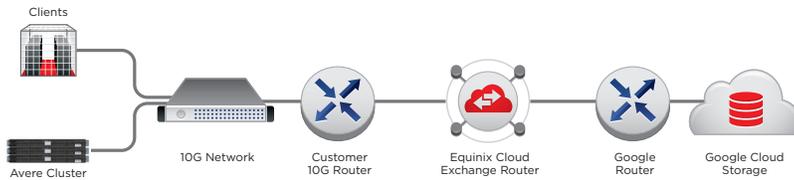
Cloud providers offer a very competitive value in data storage, but accessing that data at speed can prove challenging. Avere’s FXT Edge filer, used in conjunction with the Equinix Cloud Exchange™ (ECX®), allows clients to connect to cloud storage at local fileserver speeds. Tests show that with this architecture, the clients can access storage in Google Cloud Platform with a constant throughput rate of 800MBps.

The Avere Solution

Avere’s customers include a large number of media and entertainment, life sciences and financial services companies. These industries face an ever-increasing demand for vast quantities of storage and compute resources, which is why the cloud is becoming so important. Cloud computing provides enterprises the flexibility to move compute workloads and large data sets to a highly scalable and reliable cloud infrastructure. The Avere hybrid cloud solution creates the flexibility and agility needed to integrate existing NAS (network-attached storage) solutions to the Google Cloud Platform – offering remarkably high throughput storage performance and low latency.

A Proven Winner

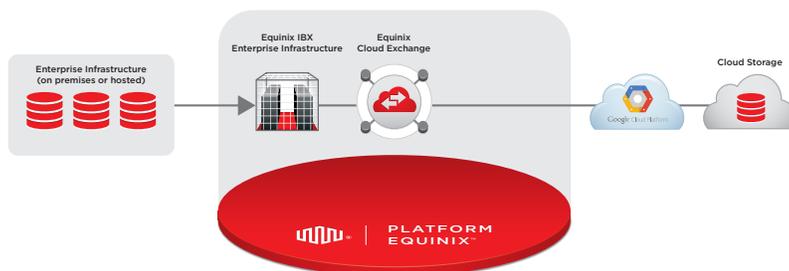
In order to demonstrate the effectiveness of the Avere solution, Avere tested and validated their storage solution for Google Cloud Platform via ECX. Leveraging their 10GB ECX connection, Avere deployed an FXT Edge filer to test performance, latency and throughput of moving workloads from their on-premise storage solution directly to Google Cloud Storage.



Avere had their testing system create 80,000 one megabyte files, spread across three Avere FXT Edge filers simulating high performance rendering, genomic, or financial analysis applications. The system would then trigger the filers to simultaneously push all of that data into Google Cloud Platform. The goal was to prove Avere could utilize the full 10Gbps of access to the Google Cloud Platform via ECX.

The results were impressive:

- Average client latency of 0.2ms access to cached data
 - Avere FXT cluster hides latency to Google Cloud Storage
- Average of 28 percent faster speed than going over the public Internet
 - Additional tests provided results up to 48 percent faster depending on location
- Constant throughput rate of 800 MBps
- Reduced the number of hops by ~ 24 percent
 - Depending on location, up to a 43 percent shorter route in terms of hops



Conclusion

By using Avere's technology at Equinix Cloud Exchange locations, Google Cloud Platform is now available to a wide number of high throughput, low latency requirement applications — and in a highly secure, reliable, private access method that replaces over-the-Internet access with direct connectivity.

For more information, about Avere and Equinix, please fill out a contact form [here](#).

About Avere Systems

Avere is radically changing the economics of data storage. Avere's hybrid cloud solutions give companies – for the first time – the ability to end the rising cost and complexity of data storage and compute via the freedom to store and access files anywhere in the cloud or on premises, without sacrificing the performance, availability, or security of enterprise data. Based in Pittsburgh, Avere is led by veterans and thought leaders in the data storage industry and is backed by investors Lightspeed Venture Partners, Menlo Ventures, Norwest Venture Partners, Tenaya Capital, and Western Digital Capital. For more information, visit: www.averesystems.com.

About Google Cloud Platform

Built on the same infrastructure that allows Google to return billions of search results in milliseconds, serve six billion hours of YouTube video per month and provide storage for 425 million Gmail users.

Google Cloud Platform provides the building blocks for enterprises to quickly develop everything from simple websites to complex applications. <https://cloud.google.com/>

About Equinix

Equinix, Inc. (Nasdaq: EQIX), connects more than 8,000 companies directly to their customers and partners inside the world's most networked data centers. Today, enterprise, cloud, networking, digital media and financial services companies leverage the Equinix interconnection platform in 40 strategic markets across the Americas, EMEA and Asia-Pacific. By connecting directly to their strategic partners and end users, customers are forming dynamic ecosystems inside Equinix. These interconnected ecosystems enable companies to optimize the performance of their content and applications and protect their vital digital assets. Equinix.com