

Multi-site Data Synchronization with Tiger Bridge and the Cloud



With the increasing need for offices & users based in different time zones or locations to collaborate remotely on the same data set, organizations are under pressure to introduce a long-term multi-site sync solution. However, this process is not so straightforward – an effective enterprise solution can be very costly, minor sync errors could result in reduced productivity and IT complexities could affect existing workflows and increase management strain.

Goals

- Connect geographically dispersed file servers/ machines to the same data set
- Achieve near real-time sync
- Collaborate on the same data
- High consistency with file locking

Requirements

- Avoid configuration complexities
- Preserve security protocols
- Maintain access to data
- Control how fast sync is to suit workflow
- Optimize cost per client machine in sync

Typical Approaches

Virtual Private Networks (VPNs) link client machines in a private network over the Internet in order to share data and applications. VPNs may not require a large initial investment. File transfers over VPN are generally considered secure as data is encrypted before entering the private network. However, using a VPN increases latency, which affects data transfer speeds. VPNs are also prone to connection breaks, which prevents constant access to the data set. Setting up a VPN connection that works effectively for businesses can be complex and costly, and configuration faults can expose data to external threats.

A **Distributed File System (DFS)** is a single file system that is distributed on multiple file servers or multiple locations, which allows multiple remote users to access corporate data simultaneously.

A DFS can be suitable for enterprises but not practical for SMBs and smaller teams due to costs and complexities.

A DFS also provides high availability – it should be able to continue operating in the event of partial failures. However, a DFS may require more work to ensure storage is secure and it can introduce delays when working with large data sets. Managing a distributed system is overall a more complex process than managing a centralized storage infrastructure.

Pain points

- Configuration complexities
- Connection breaks affect performance
- Frequent sync failures
- Security concerns
- Mounting costs as more users are added
- High latency

The Tiger Bridge approach

Tiger Bridge enables multi-site sync by using the cloud to store a copy of the data set that needs to be accessed from multiple locations without any of the complexities associated with VPN services.

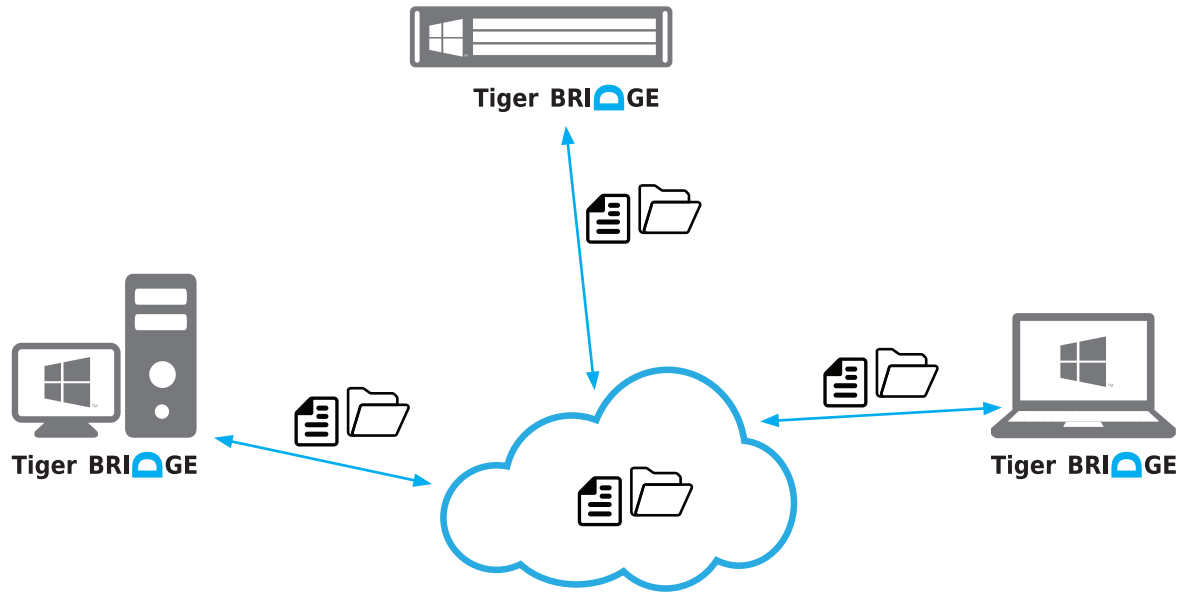
Tiger Bridge is a software-only data management solution that blends on-premises and cloud/multi-cloud storage into a single space and enables hybrid workflows while preserving all Active Directory permissions and keeping your data in its native format. It supports any Microsoft, Amazon, Google or IBM Cloud tier, Backblaze, ERA Coeus, Hitachi HCP, Wasabi and cloud S3 compatible storage, plus local object and file storage.

With Tiger Bridge you can sync multiple file servers in different offices, multiple client machines or a file server and a client without connecting them over a common network or using a VPN. This solution brings significant cost optimization - a single software license equals multiple clients. Based on simple data replication & sync policies, you can set the sync speed that matches your exact workflow needs and use optional file locking to prevent overwrite conflicts. Machines receive updates about any changes during periods when they were offline. Multi-site sync with Tiger Bridge is based on eventual consistency, which ensures a smooth user experience. Data synchronization through the cloud with Tiger Bridge also enables disaster recovery through off-site backups.

No admin complexities
AD permissions preserved

Sync speed control
Optional global file locking

No vendor lock-in
Transparent access to data



Set up & configure Tiger Bridge on each client machine and/or server. Connect it to the right cloud storage. Tiger Bridge policies operate in the background to sync changes in data across your organization.

Summary

Tiger Bridge is an ideal solution for cloud-enabled multi-site sync. It is transparent to users and applications & avoids vendor lock-in by preserving data in its native format. Tiger Bridge is easy to set up and configure and does not introduce any admin complexities commonly associated with VPN or DFS approaches. It also delivers cost optimization – one Tiger Bridge subscription can be used to enable sync across multiple client machines.

Customers in over 120 countries use Tiger Technology solutions to make their data management and project workflows easier. The company has been developing high-speed NAS/SAN file system sharing, virtual volume set and virtual project workspace management, software-only Windows cloud extension technology, and HSM tiering and synchronization solutions since 2003. Tiger enables organizations of any size and scale to manage their digital assets on premises, in public cloud, or with a hybrid model. Tiger Technology has been identified by Endeavour as one of the foremost cloud technology providers on the market today.