

Athinio NASGuard

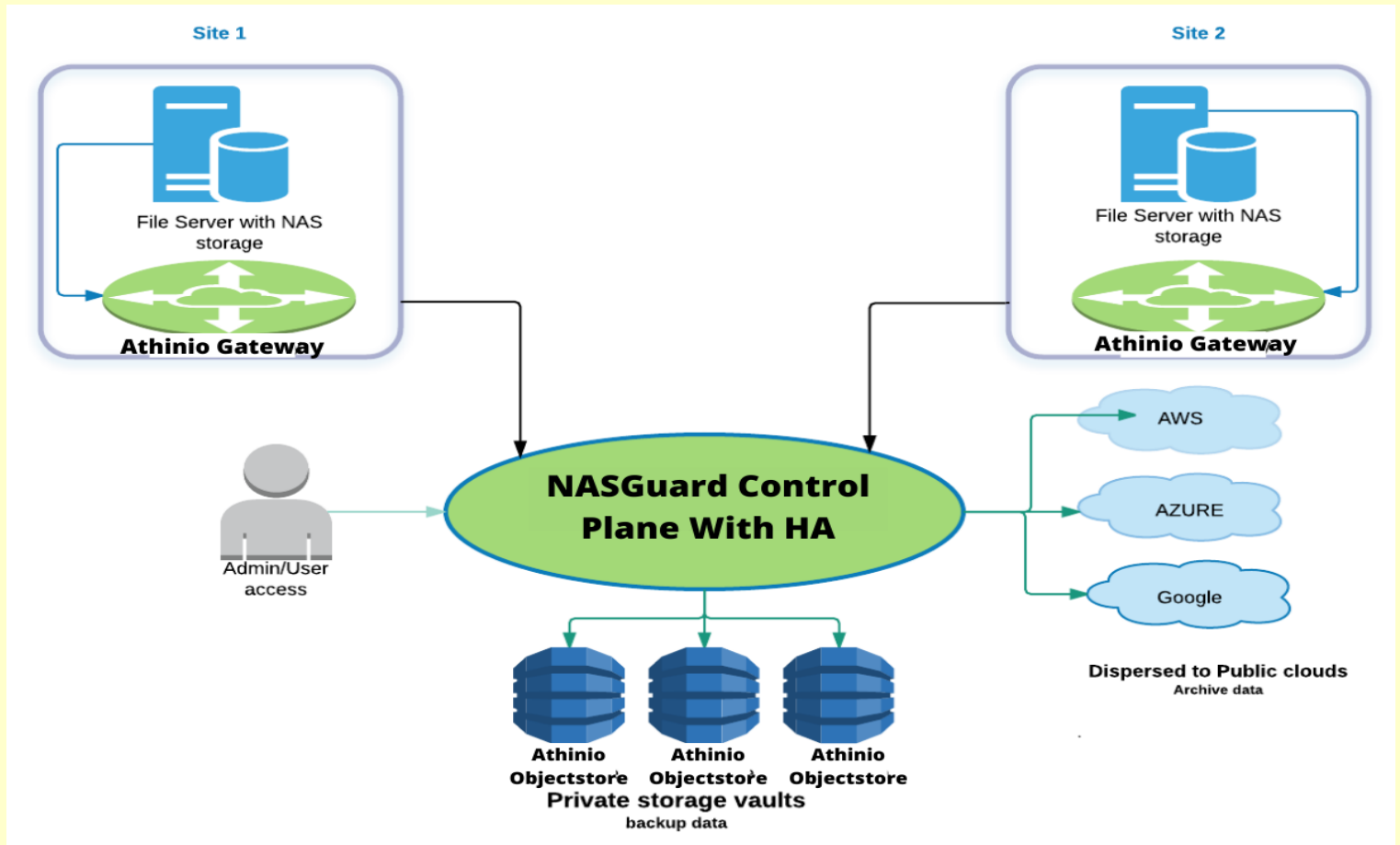
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Athinio NASGuard – Secure data protection platform with unified Backup and Archiving services for Enterprise Data servers for cyber resilience, GDPR compliance and ransomware protection...

We live in the world of digitalization and data deluge with increasingly distributed data silos across various offices, cloud services of a distributed corporation. Around 90% of the stored data of 90 % of the mid-size organizations are not accessed in the last 6 months! This is called “cold data problem”. Such in-active, or data having less business value which cannot be thrown away, cannot be stored in expensive primary storage system due to TCO issues and need to be moved to a lower tier of storage such as tapes manually, to free the space for new data. Recent data also needs to be backed up for DR. This is more critical when GDPR compliance and ransomware protection is important.

All files are classified according to its criticality and sensitivity for GDPR compliance compressed, encrypted without any key management hassles, erasure coded, based on the Reed-Solomon dispersal algorithms, and can be distributed with N:M (such as 2-3 or 3-5) availability which runs

NASGuard contacts the storage box at **network storage protocol level** (on a completely agent less manner) and migrate the files for Archiving or simply take a backup version which are driven by the Backup policies configured by the customer and moves the files in a dispersed manner across **multiple storage vaults** (can be private or public clouds).



The deployment diagram depicts NAS to Cloud Backup for cold data using Athinio NASGuard.

Athinio NASGuard Technical Solution Brief

Athinio NASGuard transparently Backup Active Files, and Archive Cold Files, with no manual intervention, based on customer-controlled Backup/Migration policies from primary file servers or existing NAS systems, to Athinio NASGuard file storage platform, optimize it (dedup and compression), then disperse it with erasure coding and distribute to lower cost storage vaults or storage clouds realizing significant cost reductions. Athinio NASGuard also keep track of sensitive data based on a policy-based data classification for GDPR compliance and make it easier to meet article 17 of GDPR in particular and overall spirit of GDPR for full data control and

NASGuard Key Benefits

- 1) **Dramatic cost reductions for cold data storage.** New data can now occupy expensive storage systems.
- 2) **Un-hackable cloud integration** with information theoretical security: Data stored in the cloud after a key-less encryption and information dispersal. If data is hacked at a single site or two sites, reveal no information. This security cannot be broken by brute force, which is computational. Athinio NASGuard security is information theoretical without key management issues.
- 3) **Backup and Archival data** is available on file system access as if file was never moved at all.
- 4) **Active archive or Petabytes of data:** Data can be accessed from the **Athinio NASGuard**, regardless of the actual location of the data (whether in the gateway itself or in the clouds).
- 5) **Software-defined, Multi -Cloud Storage Backup:** All storage and data management are fully controlled by the software, as opposed to a custom hard-ware.
- 6) **Maximum customer options:** Customer can choose a fully onPremise or a hybrid cloud solution.

Conclusion

With **Athinio NASGuard Multi-Cloud Storage Virtualization technologies**, cold data storage market is disrupted, with our market-defining product that brings radical simplicity, and dramatically cost reductions, without compromising on security or availability of the stored files. Athinio NASGuard solution include various software components that collect data from even captive storage, that doesn't understand standard network protocols, and customers will truly be fortunate to keep their business-defining old storage foot prints, for a longer period, without worrying for hugely expensive and complex scale-out storage systems or frequent storage refreshes.