Remote Site Replication and Collaboration

Keep distributed development teams updated with the latest builds

Key Benefits

Accommodate Data Growth

NetApp® StorageGRID® Webscale maximizes your control over rich content data and metadata while enabling its secure, fluid movement across on-premises and public cloud infrastructures. Grow capacity on demand with a scale-out node-based architecture that can support 16 sites under a single global namespace.

Drive Developer Productivity

Achieve near-instant synchronization of build data and artifacts between multiple remote sites across geographically distributed locations. Development managers can be confident that their development teams are always in sync regardless of where and when code updates are posted.

Store, Archive, and Manage Costs Effectively

Optimize data availability, performance, geo-distribution, retention, protection, and storage cost with metadata-driven policies, then dynamically adjust as the business value of data evolves. Streamline your IT infrastructure and reduce costs by up to 80%.

Challenges of Distributed Development

Developing applications is part of every business. Today, accelerating time to market is key to success. DevOps is the natural evolution of the development culture for developers, operations teams, and business stakeholders. This evolution requires an agile development method that involves both continuous integration and a continuous delivery process across the organization's development environment. However, many organizations are faced with operational challenges to standardize and consolidate its tools, libraries, and other dependencies. Most artifacts are nonstandard and are scattered throughout the organization without adequate maintenance and support.

JFrog Artifactory with NetApp StorageGRID

NetApp StorageGRID Webscale, integrated with JFrog Artifactory, allows globally distributed development teams to share new and updated code artifacts with development teams anywhere in the world. This solution offers greater synchronization speed at a lower cost, without the need to rely on cloud-based object repositories, allowing your organization to maintain full control over valuable binary assets.

NetApp StorageGRID Webscale

NetApp StorageGRID Webscale is a software-defined object-based storage solution that provides intelligent policy-driven data management. The ability to manage data while optimizing durability, protection, performance, and even physical placement across multiple geographies is key to meeting development requirements while reducing costs.

JFrog Artifactory

JFrog Artifactory is a universal artifact repository manager that fully supports software packages created with any language or technology. It provides a central hub for distributed repository management for all artifacts and builds. And it works as an intermediate layer between geographically dispersed development teams and external repositories.

Quickly Adapt to Changing Development Requirements

NetApp StorageGRID Webscale delivers industry-leading performance, scalability, and simplicity, making it easy to keep pace with your growing storage needs. With scale-out capabilities, NetApp offers seamless, transparent resource expansion without the cost and complexity of traditional infrastructure migrations. Users get both the scalability and performance that support build repositories and artifacts in the continuous integration pipeline.
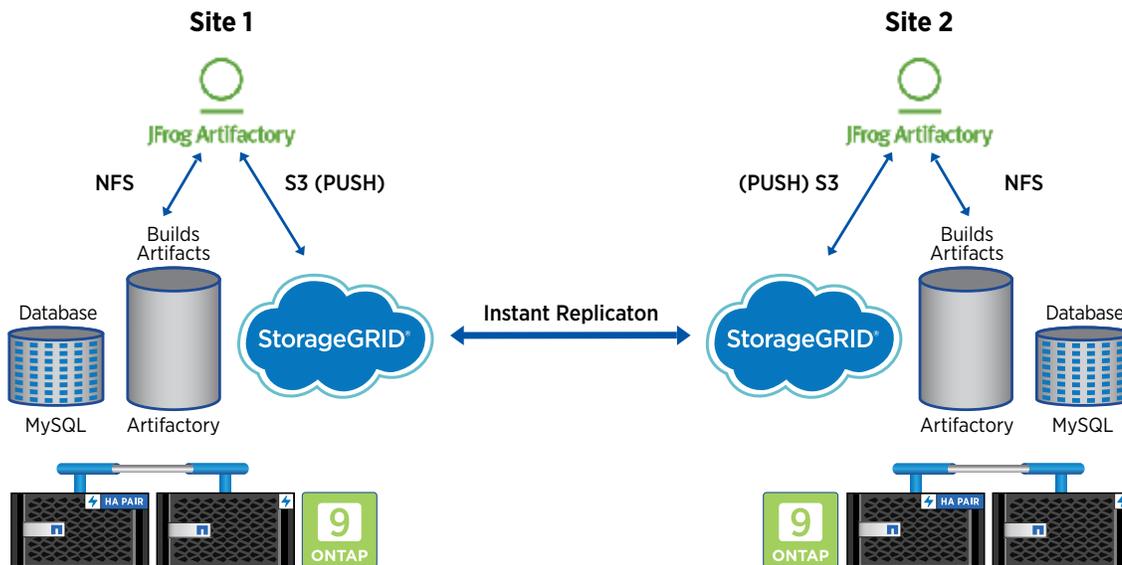
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JFrog

NetApp Technology Partner

Figure 1) Replicate and collaborate build artifacts across multiple sites.

Improve Developer Productivity with Global Efficiencies

Developers can easily collaborate on the same file across remote sites or build and push it to a local JFrog Artifactory. The built-in "diff tools" compare and identify any changes introduced, allowing for small changes to be updated and replicated almost instantly. Disaster recovery from accidental file deletions and site disasters is quick and easy, with the ability to store the same file copy at all locations. Synchronization helps to avoid teams working on the wrong code versions, enhances collaboration, lowers risk of errors, and speeds time to market.

Drive Superior Performance

NetApp provides superior performance for on-premises development environments. Users benefit from global replication of files. StorageGRID Webscale provides 6x performance benefit and low cost for replicating and archiving data across regions compared to comparable cloud-based hyperscaler alternatives. This performance is a huge boost for return on investment as builds and artifacts start to scale. After the application is retired, all the artifacts can be archived for regulatory purposes.

Summary

JFrog Artifactory integration with StorageGRID simplifies distributed development environments, providing application-aware data replication across all geographic sites. Replication and read/write are nearly instantaneous, making it easy for developers to share data with remote teams. With JFrog and NetApp, developers benefit from enhanced performance and data management capabilities:

- Artifactory provides a consistent runtime for applications developed and deployed on a standard platform.
- NetApp provides a stable, standard data management platform for application development.
- Development teams are constantly updated with the latest builds, which is important for both code deployment and support.
- Data continuity is transparent to the end users without any additional overhead.

About NetApp

Leading organizations worldwide count on NetApp for software, systems and services to manage and store their data. Customers value our teamwork, expertise and passion for helping them succeed now and into the future.

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