



GLOBAL SERVICES

FLEXVOL™ DESIGN AND IMPLEMENTATION SERVICES

Extend the benefits of FlexVol technology to SAN and/or NAS data in traditional volumes with FlexVol Design and Implementation Services to improve storage utilization, increase flexibility, and simplify storage management.

THE CHALLENGE

Getting the maximum return for every dollar you invest in your storage infrastructure is critical. That said, modern enterprises are increasingly migrating to a grid computing model to increase the efficiency and cost-effectiveness of their IT infrastructures. NetApp Data ONTAP® 7G with FlexVol technology is the next step in the evolution toward grid functionality and represents a major leap in NetApp storage innovation.

To enable storage to be managed as a central resource, significant changes had to be made to the traditional volume structure. Hence, the flexible volume concept was introduced. Although you can keep data in traditional volumes and realize the full benefits of FlexVol technology for newly created data, to extend the FlexVol benefits to data in traditional volumes, that data must be migrated to the newly created flexible volume structure.

Business, technical, and operational requirements impose restrictions on how the migration is executed, and people and hardware resource demands required by the migration often conflict with other business priorities. Without the right expertise, decisions and trade-offs can be challenging, and optimal benefits of FlexVol technology cannot be realized.

THE SOLUTION

FlexVol Design and Implementation Services are a comprehensive hardware, software, and consultative services solution for extending the benefits of FlexVol technology to SAN and/or NAS data in traditional volumes on NetApp storage systems running Data ONTAP 7G. Since Data ONTAP 7G provides huge storage optimization benefits, moving to FlexVol technology is an opportune time to review the efficiency of your entire storage infrastructure and consider archiving older, infrequently used data or consolidating across multiple storage systems to maximize your Data ONTAP 7G investment.

FlexVol Design and Implementation Services include comprehensive planning, best practices-based design, hardware and software tools (including temporary storage capacity to facilitate the move to flexible volumes), migration of data from traditional volumes to newly created flexible volumes (on the same or a different storage system) with minimal disruption to critical business operations, and returning your systems to full operation.

NetApp Global Services has highly trained Professional Services consultants with best-in-class enterprise storage architecture experience and advanced project management skills. Engaging NetApp Professional Services to manage your transition to FlexVol technology will:

Get you there faster. Rapidly accelerate the transition to FlexVol technology by speeding up the migration process.

Minimize business risk. Leverage the field-proven NetApp methodology and tools and benefit from the experience of experts skilled in tackling the technical complexities of advanced migrations and storage design.

Free your internal resources. Focus on your core business while NetApp Professional Services complements and supplements your internal IT capabilities.

Optimize benefits of FlexVol technology. Experienced consultants help you maximize the significant benefits of FlexVol and FlexClone™ technologies.

APPROACH

There are several key success factors in any migration project that can make the difference between success and failure.

Planning. Although the ultimate goal of a migration is to move data, there's a lot of upfront planning required to ensure the migration is successfully executed with minimum impact and disruption to the production environment.

NetApp understands that data is your business's most critical asset, so NetApp Professional Services works with key company stakeholders—IT, database and system administrators, business owners, and security and compliance groups—to understand the technical, business, and operational requirements that must be factored into the planning and to minimize the impact on operations during the migration.

Another key component of the planning phase is analysis of your existing storage architecture so that the design of the newly established FlexVol environment can be optimized for storage utilization and performance. The end result of the planning phase is a comprehensive migration plan that functions as the blueprint for migration execution.

Project management. Proper management plays a crucial role in the efficient execution and completion of any migration project. NetApp project managers work with you throughout the entire migration project lifecycle, creating the initial statement of work and project plan, providing progress reports, and communicating issues and recommending alternative solutions.

Experience. From years of migration experience—fine tuning procedures, learning to recognize common pitfalls, and developing workarounds—NetApp Professional Services has developed proficiency, field-proven methodologies, and tools that ensure a successful migration.

The NetApp migration methodology is a comprehensive, 10-step process designed to handle the most complex migration scenarios and execute the right migration strategy for your environment:

- 1. Business impact analysis:** understand business goals and technical/operational requirements that impact migration.
- 2. Discovery:** collect information about the hardware/software environment needed to develop the migration plan.
- 3. Mapping and design:** design the FlexVol environment and data layout.
- 4. Creation of migration plan:** define the details of the migration operation—what data is moved, where it is moved, how it is moved, and when it is moved.
- 5. Provisioning:** configure services and files on the FlexVol system and network to support the migration.
- 6. Premigration test:** test the migration plan to ensure the actual migration will meet all objectives.
- 7. Migration and cutover:** migrate the data, reestablish data protection mechanisms (if required), and point clients to the new system.

8. Validation: demonstrate that the new FlexVol system is ready to be put into production.

9. Postimplementation handoff: provide an overview of and written documentation for the new FlexVol system.

SERVICE DELIVERABLES

FlexVol Design and Implementation Services provide the following deliverables:

Statement of work, which defines the scope of the project, identifies major tasks and responsibilities, and provides a schedule and solution pricing

Build document, which outlines how the migration was executed and serves as a blueprint for rebuilding the environment, if required

PRICING

FlexVol Design and Implementation Services pricing is based on the scope and complexity of the migration project and is clearly outlined in the statement of work provided at the outset of your migration project. For further information, please contact your local NetApp account representative.

COMPLETE NETAPP SOLUTION

Hardware: NetApp primary storage systems (F880 and above) and/or NearStore®

Software: Data ONTAP 7G and FlexVol technology

Service: FlexVol Design and Implementation Services

RELATED SERVICES

NetApp ConsultingEdge is the Professional Services arm of NetApp Global Services, offering a comprehensive portfolio of services designed around leading-edge technologies, methodologies, and tools delivered by a cadre of experts who have helped thousands of enterprise customers plan, configure, integrate, and deploy mission-critical storage infrastructures.

NetApp Global Services can assist you in any and every phase of the storage lifecycle. Whether you need help planning your next-generation storage system, need an extra set of hands for a major storage deployment, or want to optimize your existing infrastructure, trained NetApp services personnel have the skills to get the job done and ensure your success.

NetApp offers a portfolio of related migration services, including:

SAN Data Migration Service

NAS Data Migration Service

ABOUT NETWORK APPLIANCE

Network Appliance is a world leader in unified storage solutions for today's data-intensive enterprise. Since its inception in 1992, Network Appliance has delivered technology, product, and partner firsts that simplify data management. Information about Network Appliance™ solutions and services is available at www.netapp.com.



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