

Ten Steps to Take Data Center Efficiency to the Next Level

- 1 Consolidate your data center networks into an integrated data center fabric.**

Leverage the flexibility of multiprotocol support that includes FC, FCoE, and FCIP to match performance, scalability, and cost with application requirements. Lower cost of ownership with reduced power and cooling requirements and simplified management.
- 2 Tier your networked storage across Flash, FC, and SATA.**

Balance performance, availability, and cost based on application demands. Use Fully Automated Storage Tiering (FAST) to set policies based on realtime and historical trends to automate tiering across leading applications.
- 3 Integrate your IT management.**

Automate end-to-end data collection, in real time, grouping by application or line of business. Automatically model proposed design changes and potential effects before putting them into production. Simplify provisioning and orchestration across multiple servers, SAN, and storage devices, leveraging one tool and one user interface.
- 4 Virtualize your servers and applications.**

Easily deploy VMware® or Microsoft® Hyper-V™ for server and application virtualization on Brocade® and EMC® infrastructure. Maximize the benefits and cost savings of virtualization through unique integration with storage and networking technology that accelerates application deployment, ensures availability, and simplifies management.
- 5 Virtualize your network.**

Create virtual network links that provide storage services to virtual servers. Assign fabric bandwidth and resources with QoS priorities to ensure consistent performance regardless of network traffic. Identify points of congestion and monitor and report on physical resource utilization. Unify management and provisioning with VM-aware network management.
- 6 Virtualize your storage.**

Access and share data between locations (over a distance) via a distributed federation of storage resources. Automate the creation of host, port, and device groups with fewer configuration steps in virtual machine environments. Unify management and provisioning with VM-aware storage management.
- 7 Secure your data.**

Transparently encrypt data at rest in the fabric for secure, simple, high-performance security solutions. Brocade and EMC enable non-disruptive deployment of fabric-based encryption services and centralized key management through integration with RSA® key management for compliance and unmatched protection.
- 8 Ensure application-consistent recovery.**

Define RPO/RTO based on application requirements. Bring both databases and applications back to any transaction-specific point in time while preserving write-order integrity. Increase availability and performance by leveraging an out-of-band architecture for physical-to-virtual and virtual-to-virtual replication.
- 9 Replicate data over any distance.**

Enhance your existing array-based replication solutions with distance extension and compression. Further enhance your RTO/RPO for highly critical business applications, while maintaining consistent block-level copies of critical production data and near instantaneous recovery. Compress data in the network to reduce cost and extend the distance of replication for enhanced protection.
- 10 Engage EMC and Brocade.**

EMC and Brocade have the expertise to help you design, assess, deploy, and support your foundation for the private cloud. For more information, visit www.benextsolutions.com.