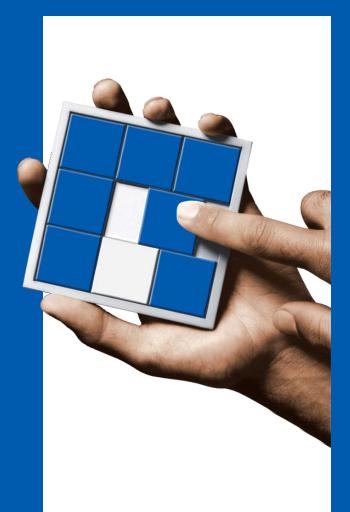
Go further, faster™

From Virtualization to Flexible IT: Transforming the Datacenter to Meet Business Needs

NetApp^{**}

Phil Brotherton NetApp Vice President and GM, Microsoft Business Unit





"Our talented employees are united in one goal: helping our customers succeed."



- Broad solutions portfolio
- Comprehensive professional services
- Global support
- Industry-leading partners
- 140+ offices around the world
- ~9000 employees
- 20% 5-year CAGR
- Fortune 1000, S&P 500, NASDAQ 100

Leaders Rely on NetApp



Demanding Workloads





NAVITAIRE[®]

350M email inboxes on 80+ PB

- 1.3 million email accounts
 - 290M transaction per month

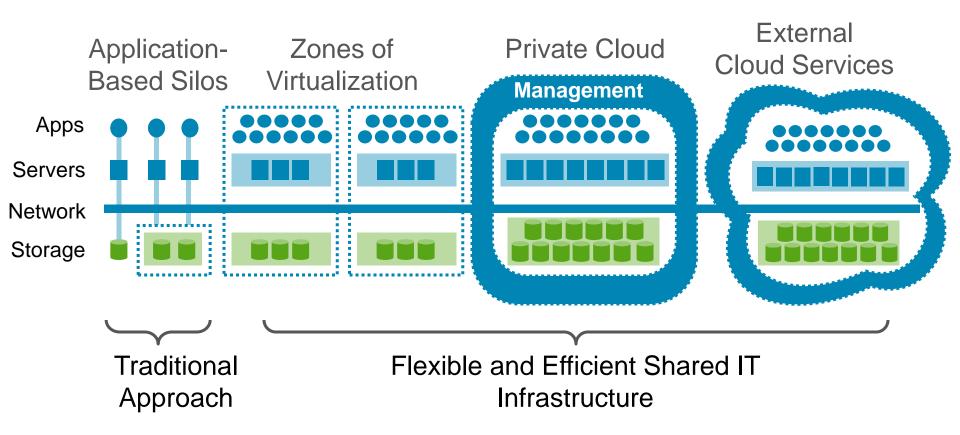
Growth Companies of Scale



Customer Success Is Fueling Our Growth

Fortune 1000 + Global 500 High Tech Companies with \$4B+ revenues and 20%+ five year organic CAGR

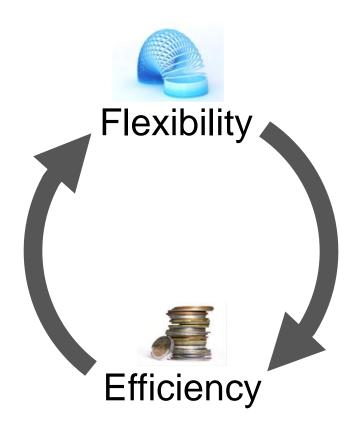
Net App^T Our Customers' Data Centers are Evolving



Multiple tenants and workloads are now sharing a single IT infrastructure

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The Power of Shared Infrastructure



Flexibility to Accelerate Business

- Capitalize on new opportunities
- Dynamically add capacity and rebalance workloads to meet cloud requirements

Sustained Efficiency to Drive Business Productivity

- Maximize efficiency while delivering predictable performance levels
- Leverage automation to deliver on promise of cloud

Maximizes IT flexibility & efficiency

What If You Could . . .



- Backup and restore your VMs instantaneously
- Easily protect all your virtualized data with DR
- Save 50% on your storage, power, cooling, and space
- Deduplicate virtual server and virtual desktop data, enabling 50% space savings, or more
- Automate your most labor-intensive data management tasks
- Clone and provision storage as quickly as your VMs
 - Do all of this with one architecture in any environment

Flexible IT Delivers Measureable Results

	Typical	Possible with NetApp
Management	250TB per FTE	Up to 2PB per FTE
Provisioning	Weeks	Minutes
Application Deployment	Months	Days
Utilization	30%-40%	Data: 100%-2000% Storage: 75% or greater
Storage Efficiency	35%	Guaranteed 50%* less Up to 85% less for VI
Backup and Recovery	Hours	Minutes
Clones	Hours	Minutes
Power	10% reduction	Up to 50% reduction

*http://www.netapp.com/us/solutions/infrastructure/virtualization/guarantee.html

Source: Oliver Wyman: Sensis Case Study

NetApp Infrastructure Partners





Virtualization Solutions for Microsoft

<image/> <section-header><section-header><section-header></section-header></section-header></section-header>	Lower Costs	Flexibility	Improved Management	Business Continuity
	Increased server efficiency	Rapidly provision and redeploy servers	End-to-end management for servers	Continuous server availability
	Use 50% less storage	Provision servers plus storage even faster	Manage entire heterogeneous environment	Continuous storage availability
	Flovibl		ered by Mic	prosoft

Flexible IT Powered by Microsoft and NetApp

NetApp Integration with Hyper-V

NetApp SnapManager for Hyper-V

- Automated, policy-based backup and restore for Hyper-V VMs
- Certified for Windows Server 2008 R2 with Hyper-V
- Create application-consistent backups of VMs

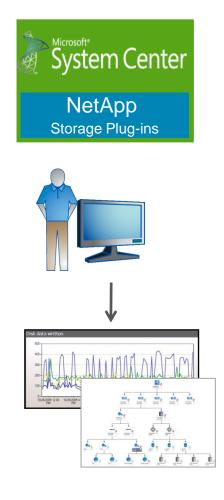
Windows-Based SnapManagers supported on Hyper-V

- Data protection for virtualized Microsoft Enterprise Applications
- Support for direct connected and pass-through disks (FC & iSCSI)

NetApp ApplianceWatch PRO

- Rapid VM Provisioning from SCVMM Templates with FlexClone
- Virtual Machine Manager integration with PRO Tips
- VM storage monitoring via System Center Operations Manager

Single Pane of Glass Management



Centralized storage monitoring for physical and virtual servers

- Automatic NetApp system discovery
- Availability/capacity monitoring
- Alerts and consolidated reporting

Centralized storage management for virtual environments

- Storage provisioning
- Instant VM cloning
- Data deduplication
- Thin provisioning
- DR Failover & Testing

NetApp Partnership with VMware

- Mutual Global Alliance Partners
- Over 10,000 joint enterprise installations
- Strong engagement at all business levels
- All NetApp products are VMware certified
- Reference platforms for View, vSphere & vCloud
- Deep engineering-level collaboration
- Joint support for escalations

Flexible IT for Servers and Desktops

mware[•]



Best Practices for Microsoft on VMware



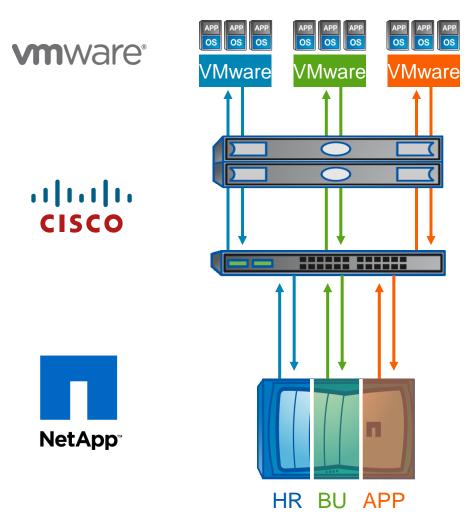




NetApp [*] Go lutine, faster	vm ware [.]	uluulu cisco.
	Technical Report NetApp Solutions Guide	
	NetApp Solutions Guide Microsoft Exchange Server, SQL Serve Server Mixed Workload on VMware vS Unified Storage (FC, ISCSI, and NFS). Unified Fabric VMware and Macrosoft Soutons Engineering, NetApp November 2009 TR-3785	phere 4, NetApp

- Mixed workload solution guide
- Reduce costs in silos
 - Consolidate enterprise applications
 - Virtualize 100%
- Increase application service delivery
 - Application-consistent backup and recovery
 - Integrated disaster recovery

Secure Multi-tenant Solutions



Overview

- The only validated design for end-to-end secure multitenancy
- Data is securely isolated from virtual server, network, to storage

Benefits

- Address end user security concerns
- Meet regulatory and compliance requirements
- Gain economies of scale, higher utilization, and better SLAs



Flexible IT with NetApp Virtualization Solutions



Business Benefits of Flexible IT



Provisions IT resources within hours instead of weeks



Generates \$5M in annual revenue, gets to market 12 months faster



Grows hosting revenues by 500% over 4 years using virtualization and NetApp shared storage



Achieves 166% ROI, reclaims 75% of data center space and reduces energy costs by 70%

Avanade Speeds Test and Development



Avanade helps its customers maximize their IT investments through comprehensive solutions that drive business results.

Business Impact

 Speeds test and development of custom Microsoft projects for Avanade clients

Increased IT Flexibility

- Automation and centralized management with minimal administration
- Turnkey provisioning of new environments, with build-out or break-down in minutes
- Rapid scaling of server and storage resources

- Reduced server/storage footprints by 50%
- Reclaims over 50% of storage space

New Business Opportunity for SAP



SAP is the world's largest business software company with 95,000 customers and €10.6B in revenues serving 50+ countries.

Business Impact

 NetApp powers all new on-demand lines of business to serve new customer segments

Increased IT Flexibility

- 83% higher productivity
- 10 PB installed, supports all SAP On-Demand offerings

- 650 terabytes managed by one person
- 33% lower hardware & software costs
- 36% lower per terabyte costs
- 49% lower IT costs
- 4 year savings estimate of €5-10M

TEP Accelerates New Applications



A UniSource Energy Company

Tucson Electric Power (TEP) Company, the principle subsidiary of UniSource Energy, is an electric utility with more than 2,000 megawatts of generating capacity serving more than 397,000 customers in southern Arizona.

Business Impact

- Accelerated development for new Meter Data Management application
- 140% average annual ROI over six years

Increased IT Flexibility

- Server provisioning time reduced by 80%
- User-initiated failover and failback operations
- Self-provisioning of virtual desktops

- Over \$1M in average annual savings
- Increased resource utilization by 400%
- Reclaims over 60% of storage space with de-duplication and cloning

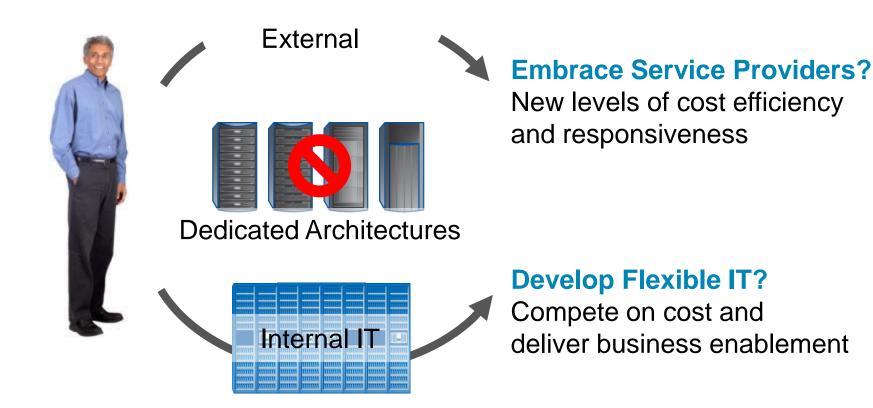




What's Next?



Net App⁻ The New Benchmark for IT is the Cloud



Maintaining the status quo is not an option

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NetApp Shared Infrastructure at Scale



Companies building services on NetApp storage

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Cloud-Based SAP Services at T-Systems

T · · Systems · · ·

A division of Deutsche Telekom, T-Systems operates information and communication technology (ICT) systems for multinational corporations and public sector institutions.

Business Impact

- T-Systems is the largest SAP outsourcing company in Europe, serving 100 companies like Porsche, Shell & Airbus and 1.8M live users
- 30% lower cost offering than on-premise IT

Increased IT Flexibility

- Dynamically scales, now with 80+ PBs
- New customer environments in 1 day
- Dynamically migrate to meet changing needs

- 50% increased in server and storage utilization
- 80%+ reduction in disaster recovery costs
- Self-service recovering in minutes, not hours

Cloud-Based Microsoft Services at nGenX



nGenX provides Cloud Computing and Infrastructure as a Service (IaaS) solutions from high-availability data centers located in the Midwestern U.S.

Business Impact

- Rapid deployment of replication and disaster recovery (DR) services across geo-diverse data centers
- Enabled annual growth > 30%

Increased IT Flexibility

- Easy and cost-effective scalability supports growth of SMB services for Microsoft apps
- Rapid, long-distance failover of Hyper-V VMs

- Reduced customer support costs up to 40%
- Reduced storage needs by 50 to 60%

Maximizing Value Requires New Thinking				
Shared IT Infrastructure Purchase Criteria				
✓ Scale Up and Scale Out	Scale performance & capacity on-demand			
Storage Efficiency	Build-in efficiency at every step			
Intelligent Caching	Optimize cost-performance by workload			
✓ Unified Architecture	One architecture for many workloads			
Integrated Data Protection	Seamless protection for backups & DR			
✓ Non-stop Operations	Continuous data availability for all tenants			
✓ Secure Multi-tenancy	Securely isolate shared storage resources			
Service Automation and Analytics	Reduce cost, complexity & enable ITaaS			





Thank You

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