

Industry Report

Software-Defined Storage

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Software-Defined Storage - TOC

1 Executive Summary

Introduction

Target Audience

Key Takeaways

2 Industry Dynamics & Market Drivers

Data Storage Industry Dynamics

Storage Market in midst of Disruption

Top Enterprise Storage Related Pain Points

Applications- Key to Infrastructure Architecture

Workload Characterization

Impact from emergent technologies

Virtualization

Cloud Computing

Big Data

Market Drivers for SDS

Key Technologies Needed for SDS

Reducing Storage Costs

I/O Access Patterns in Corporate Data Usage

Flash/SSDs – improving IOPs Performance for OLTP/Database workloads

Auto-Tiering – Improving Storage Efficiency & TCO

Business benefits and value derived from adopting SDS

3 Market Segments & Product Requirements

Software Defined Storage

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Why Software Defined Storage

Main features of SDS

SDS – Key Features

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SDS Industry Roadmap – On-Premise to Public Cloud Centers

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Price/Performance Improvement using SDS vs Traditional Server Storage

Hybrid Cloud Storage

I/O Access Patterns in Corporate Data Usage

Hybrid Storage Architecture

Traditional Storage vs Hybrid Cloud Storage

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Analysis & Challenges of present Storage Architectures

Side Effects of Virtualization

The Need for a new storage architecture

SDS - Hypervisor Converged Storage Platform

Consolidated, Role-Based Management Tools – Single pane of glass

Benefits derived from deploying storage Hypervisor Architecture

6 SDS Ecosystem & Suppliers Positioning

Legacy incumbent players vs Start-ups

Software-only Vendors

Hyper-Software Vendors

Hardware Vendors Offering Software-only Storage

Storage Appliance Vendors

VMWare Software Defined Storage

VMWare SDS to Simplify and Automate Storage Management

Microsoft SDS

On Premise/Private Cloud Choices

Modern Architecture

SDS Storage in Window Server (File Based)

Achieving Low Latency, High Throughput and Scalability with SMB3 Direct

Price/Performance Improvement using SDS vs Traditional Server Storage

7 Key Takeaways, Guidance & Recommendations

Key Takeaways

Guidance

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