Hyperconverged IT: Simple Building Blocks to Enable 21st Century Learning
More front end technology for staff and students = more back end technology

TODAY’S DATA CENTER AND STAFF CAN’T KEEP UP
WHAT’S IN YOUR DATA CENTER?

Servers + VMware
Data Protection Apps
Storage switch
HA shared storage
SSD array
Backup appliance
WAN optimization
Cloud gateway
Storage caching

Why So Many Products?

20th Century Design is Obsolete

- Too much data to manage
- Too many hardware and software contracts to manage
- Getting more complex than can be managed with a small team
- Too much time keeping stack working together
HYPERCONVERGENCE

VS
WHAT’S IN A HYPERCONVERGED APPLIANCE?

- Single Mgmt Point
- Single Support Call
- DR/BC Built-In
- Backup Built-In
- Best of breed Components

Predicatable, Linear Scale
“One Node = X Servers”
Enterprise Capabilities

1. Data Protection
2. Data Efficiency
3. Performance
4. Global Unified Management
SAMPLE DISTRICT DEPLOYMENT

Main Data Center (High School) Primary Site
- 40 VMs
- 350 Virtual Desktop

Middle School
- 10 Virtual Servers

Elementary School
- 10 Virtual Servers

Public Cloud
- BOE Office – Secondary DR

Centralized Management and Protection
- Multi-Site Infrastructure managed with one pane of glass
- Backup and Replication Automatic
- Data is WAN Optimized/Reduced to minimize network bandwidth consumed
- Simple to conceptualize and describe
- Single Support call
- Flexible: Redistribute blocks as needed

Outcome
- Consistent deployments across sites
- Improved service level availability

SAMPLE DISTRICT DEPLOYMENT

- BOE Office
- DR
- Elementary School
- Middle School
- Main Data Center (High School) Primary Site
- Public Cloud
- BOE Office – Secondary DR
- 10 Virtual Servers
- 40 Virtual Servers
- 350 Virtual Desktop
- 30 Virtual Servers
- 10 VMs
- 30 VMs
- 400 VMs
- 350 VMs
Centralized Management and Protection

- **Flexible**: Redistribute blocks as needed

Outcome

- Consistent deployments across sites
- Improved service level availability

FLEXIBLE BUILDING BLOCKS

Main Data Center (High School) DR Site

- 30 Virtual Servers

BOE Office – Primary

- 40 Virtual Servers
- 100 Virtual Desktops

Middle School

- 10 Virtual Servers

Elementary School

- 10 Virtual Servers

Public Cloud

BOE Office – Secondary DR

- 30 Virtual Servers
- 100 Virtual Desktops
Centralized Management and Protection

- One Block = 25 Virtual Machines or 125 Desktops

Outcome
- Consistent deployments across sites
- Improved service level availability
HYPERCONVERGED POWERS THE 21ST CENTURY DATA CENTER FOR YOUR DISTRICT

BEFORE

AFTER

- Reduce Overall Expenditures
- Go Green = Lower Power and Cooling
- Less Renewal and Maintenance hassle
- Less Training and Complexity for Staff
- Better SLAs for District Services
CDI AT A GLANCE – BOOTH #645

OVERVIEW

❖ Founded in 1995, 20-year established and nationally ranked full-service IT solutions provider
❖ Over $300 million and 300+ employees with offices located in NJ, NY, NC, GA, MA and PA
❖ True hybrid IT solutions and services

CDI STRATEGIC PARTNER AWARDS

EMC: #1 Top-tiered nationally ranked Platinum Partner
Cisco: Cloud Builder of the year for the United States and Solutions Partner of the Year for the east
VMware: VSPP Certified, vCloud Air Certified (VCHS), Premier Professional Services Partner
VCE: #1 Vblock Partner

SUBCONTRACTOR FOR EMC, CISCO, VMWARE AND VCE SERVICES

DATA CENTER NETWORKING
SDDC

EMERGING TECHNOLOGIES
End User Compute Video Collaboration

MANAGED SERVICES
Cloud-Based DRaaS, IaaS, BaaS

CLOUD SERVICES
Converged, Hyper Converged Infrastructure Public, Private Hybrid Cloud

MULTI-MILLION DOLLAR INTEGRATION LAB

8+ YEAR INVESTMENT
The CDI Professional Services Group (PSG) adheres to a deep playbook of delivery capabilities that extends from the data center to the end user.

**MANAGED SERVICES**
- IaaS
- DRaaS
- BaaS
- 24/Remote Monitoring
- End User Help Desk

**BUSINESS SERVICES**
- Collaboration
- Security
- Mobility
- SDDC
- End User Compute
- Cloud Computing
- Advisory Services

"PSG is positioned as the deepest and most technically capable team among our contemporaries. Our history of delivering complex, multi-vendor solutions enables CDI to rise above in this very competitive marketplace."

Frank Romano, Vice President of Professional Services
FLEXIBLE CLOUD DEPLOYMENT

VSPEX
- Apps/Middleware
- Database
- Operating System
- Hypervisor
- Storage

Private/Hybrid/Public Cloud

Flexibility In Choice “Run Anywhere”
- Your Facilities
- CDI Cloud
- VMWare ClouD
- Combination

Converged Infrastructure
- Applications
- Middleware
- Database
- Operating System

CPU Pool
Storage Pool
Network

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