Leveraging the Cloud for Scalable and Simplified Data Storage

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Most CIOs believe in a hybrid future with a significant cloud component, and they are moving toward it.

CIOs expect more than half of their business to run on public-cloud infrastructure by 2018.
Today’s storage is not built for the distributed enterprise

Do-it-yourself Storage Infrastructure

1. Storage is cheap, but protection is expensive & complicated
2. Hardware requires planning years in advance
3. Traditional architectures trade performance for control
Cloud-integrated Storage – the next generation of enterprise storage

Do-it-yourself Storage Infrastructure

Cloud-integrated Storage
Cloud-integrated Storage – the next generation of enterprise storage

**Cloud Storage** - the slow, but very large & very protected component

- Public or private object store with redundancy
- Gold copy of data or mirror target

**Local Storage** - the fast, but typically small and replaceable component

- Caching system or mirror source
- SSDs & high performance hardware
Cloud gateways have grown up becoming mid-range storage controllers

**Traditional capabilities**
- NAS storage – CIFS, SMB v3, and NFS
- SAN storage – iSCSI
- Integration with Active Directory & ACL support
- Volume-level snapshots including control of timing & retention
- Storage reduction through de-duplication
- Per-volume, per-directory, and per-user quotas
- VSS, CHAP and IP authentication

**Unique capabilities**
- AES-256 end-to-end encryption including customer keys
- WAN optimization built-in
- Cache management (directory and file pinning)
- Integrated anti-virus protection
- Mobile and web access to file data
Cloud-integrated storage can do much, much more…

**Elastic Unlimited Capacity**
- No limit to file size or the number of files
- Additional capacity available on-demand
- Local storage simply caches most frequently used files

**Integrated Data Protection**
- Replace backup with unlimited snapshots
- Multiple geographies and copies guarantee data safety
- RPO = 1 minute & RTO = seconds

**Global File Synchronization**
- Single global fileshare accessible in every office
- Read & write access in every location
- Collaboration across the globe – using cloud resources
And comes in a variety of local options

**Physical**

**Virtual**

- VMware
- Windows Hyper-V™
- Amazon Web Services™
- Windows Azure™
Supporting the wide array of deployments required for distributed companies
Customers are using CiS to simplify a variety of storage needs

Unified Storage
Backup and DR
Archiving
Global Fileshare
Scale-out Storage
Storage Consolidation
Nasuni is CiS – delivered as a comprehensive service

Nasuni Filers

Cloud Storage

Nasuni Management Console

Nasuni Operations Center
Success Story

- 5th largest architecture firm in the world
- 80-year old privately held firm
- 1,500 employees across 25 offices
- 100TB of unstructured data

Use Case: Backup & DR

Solution Comparison

<table>
<thead>
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<th></th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Avamar+VNX</td>
<td>$4.2M</td>
</tr>
<tr>
<td>Nasuni</td>
<td>$1.5M</td>
</tr>
<tr>
<td><strong>Savings</strong></td>
<td><strong>65%</strong></td>
</tr>
</tbody>
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Success Story

- 95 year-old durable goods manufacturing company
- Centralized IT across several distinct business units
- Unable to make shared critical data available across the organization

Solution Comparison

<table>
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<tr>
<th>Solution</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Storage+MPLS</td>
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<tr>
<td>Nasuni</td>
<td>$450K</td>
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Savings 40%
What to learn more about CiS?

CiS Overviews & Customer Experiences

Technical & Analyst White Papers

Extensive and detailed product information, technical briefs, data sheets, videos and case studies can be found at nausni.com.
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