

# Et kig i krystalkuglen

Introduktion til eksisterende og kommende  
server og storage løsninger

# Et kig i krystalkuglen

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Mens jeg husker det :

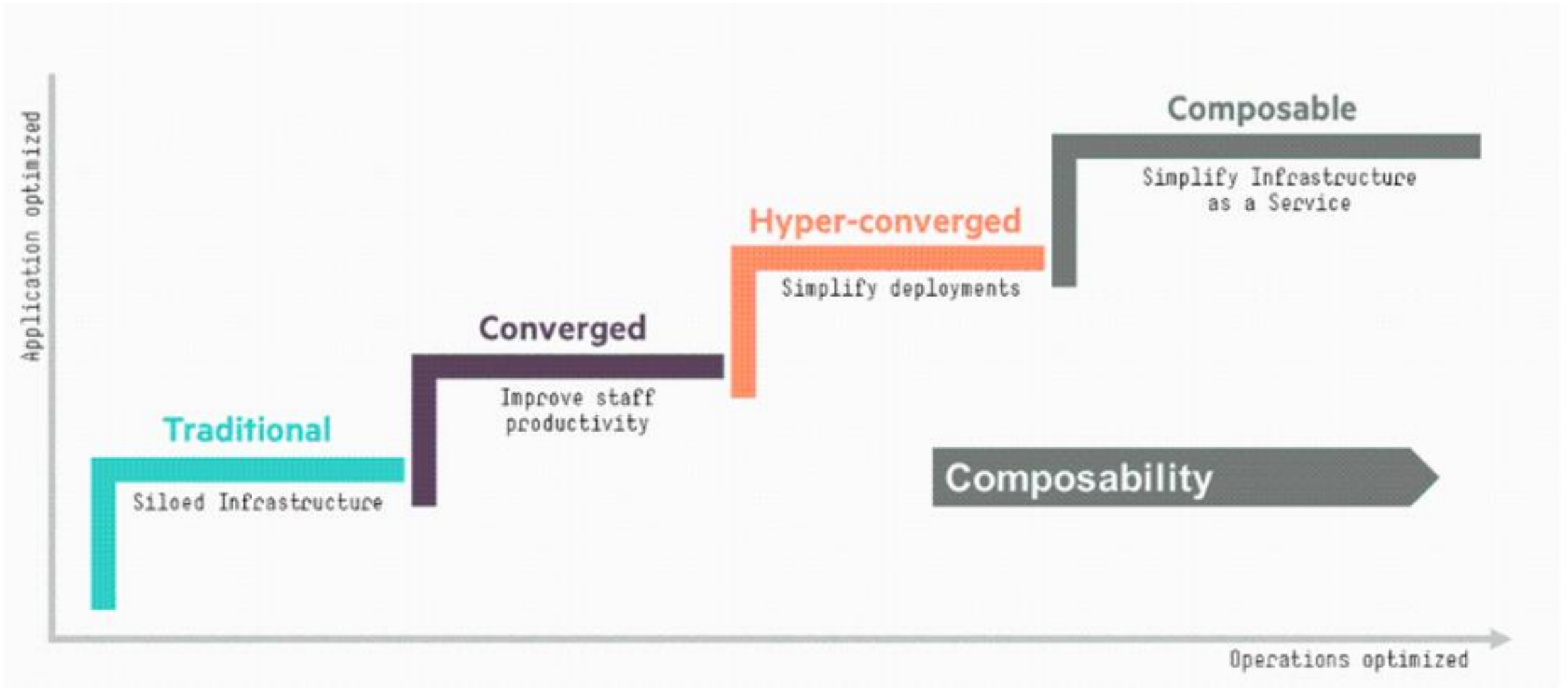
- SKI 02.03 opdateres i denne uge
- Præsentation – leverandør uafh. Men billede kan komme fra...
- Ingen referencer nævnt
- Spørgsmål helst til sidst – tid....

# Vi starter med server – nutid og fremad rettet

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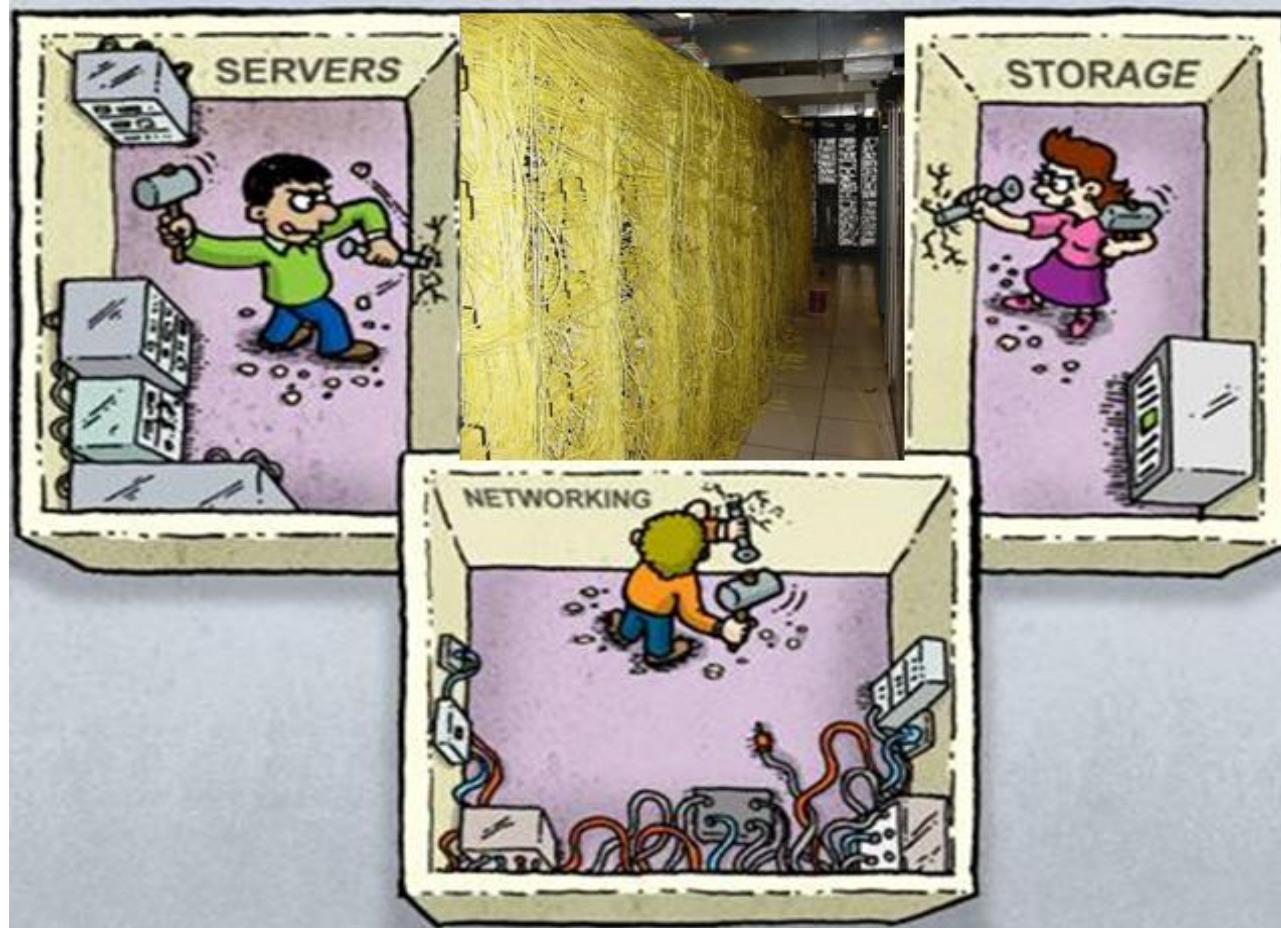


# Servere – hvor er vi – hvor er vi på vej hen



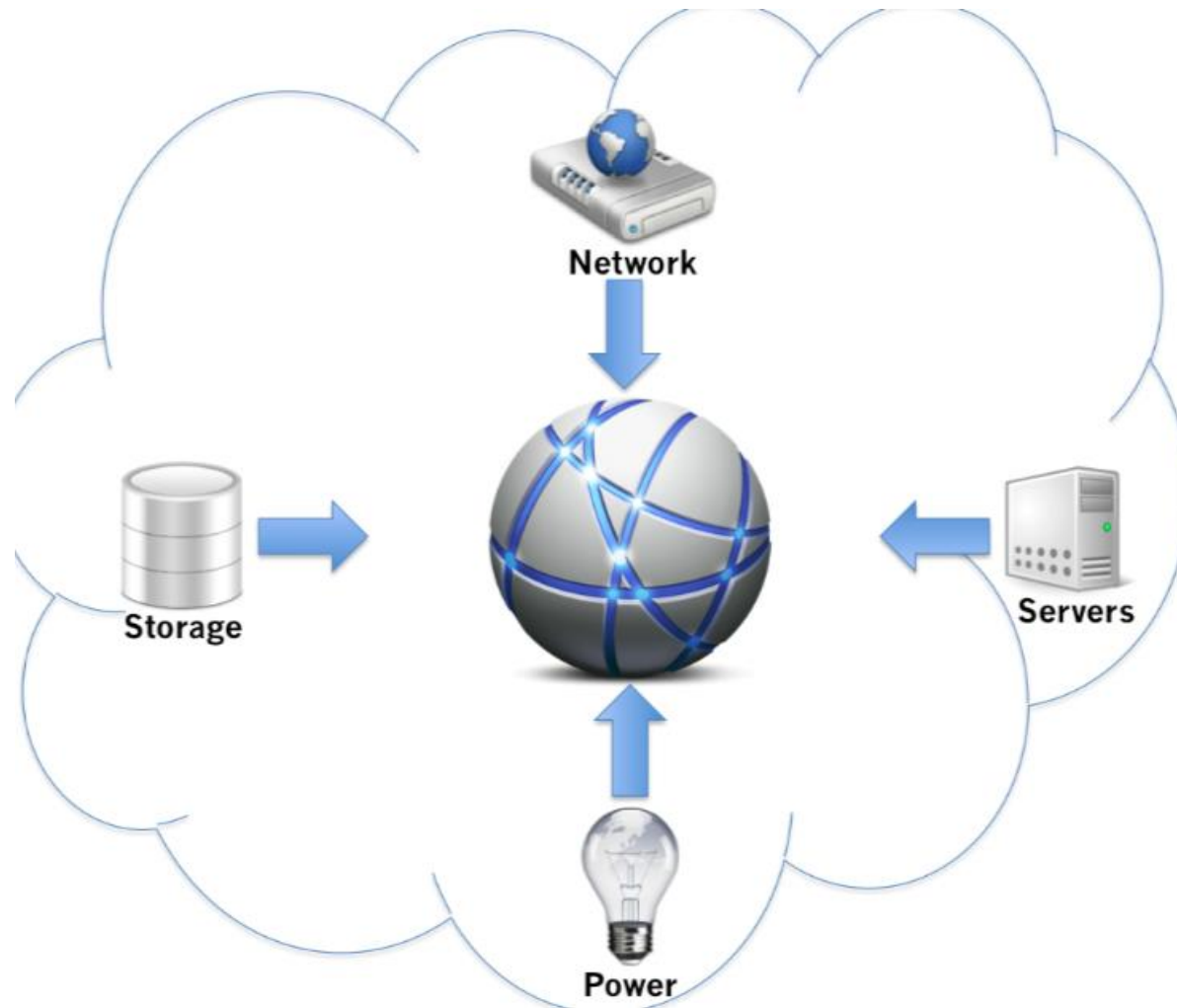
# Servere – og udfordringerne

- Historien blev godt illustreret af Cisco



# Trin 1: Og så kom Converged infrastruktur

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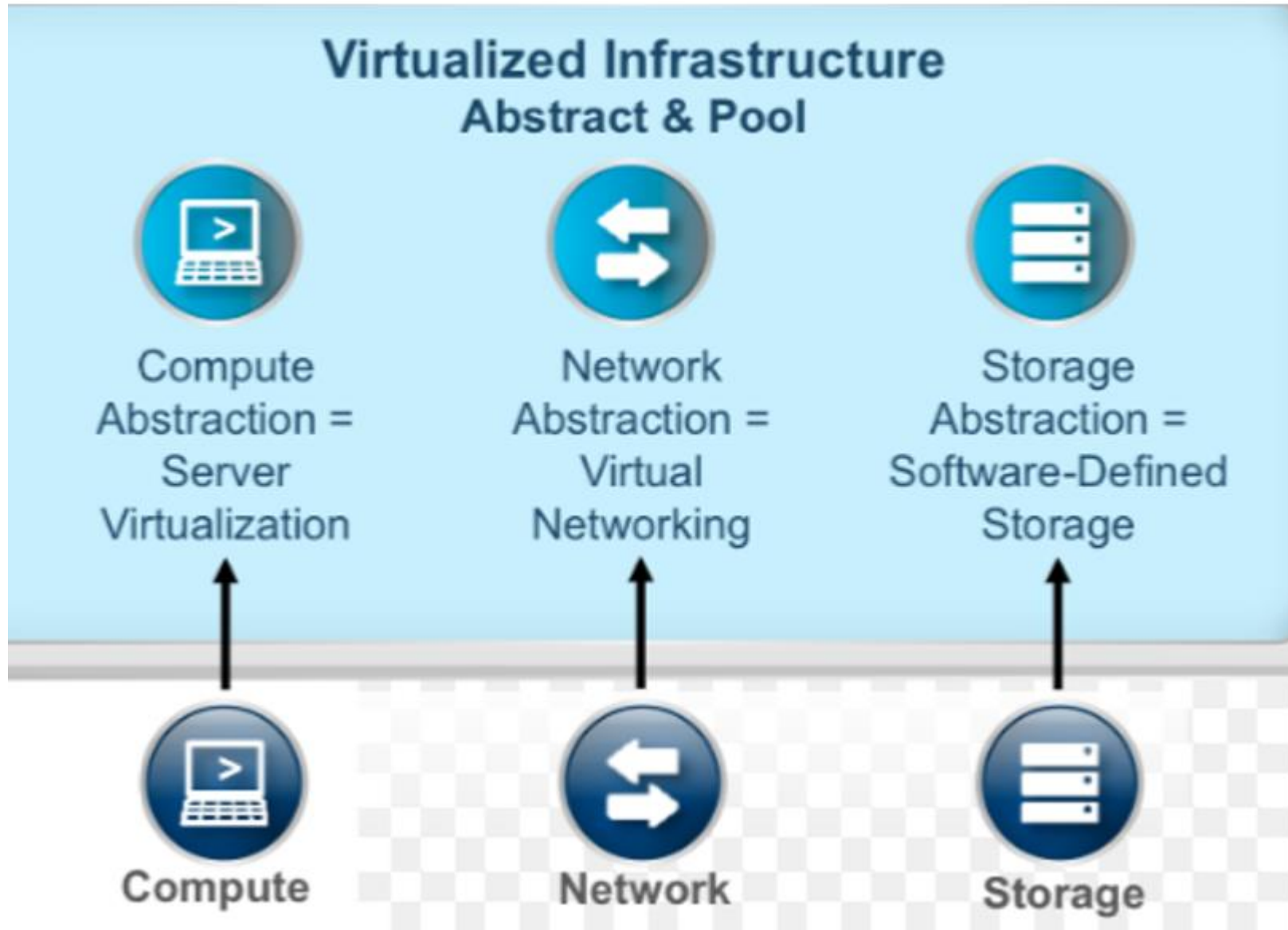
# Trin 2 – Hyper Converged løsninger

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- Født ud af CI løsninger og ret så meget det samme – men med men dog med Xtra
- I form af
  - Software til at ”samle løsningerne”
  - Deduplication
  - Compression
  - Snapshot
  - Backup/restore
  - WAN optimization

og ikke mindst → SDDC tanker og software

# Trin 3 - SDDC – Software Defined Data Center





# Trin 4??? - En vision? – en mulig vej?



## Composer-Streamer

Integrated software-defined intelligence to self-discover, auto-integrate, provision and scale from racks to rows



## Composable Compute

Provides the performance, scalability, density optimization, storage simplicity, and configuration flexibility



## Composable Frame

Everything needed to run applications, so IT can be quickly setup and consumed

Auto-integrating makes scaling simple and automated at rack/row scale

And along came



## Composable Fabric

Rack scale multi-fabric connectivity eliminates standalone TOR switches



## Composable Storage

High-density integrated storage to compose any compute with any storage (SDS, DAS, SAN)



# Storage

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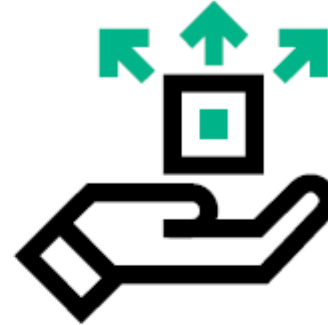


# ”Traditional” - storage

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Servers



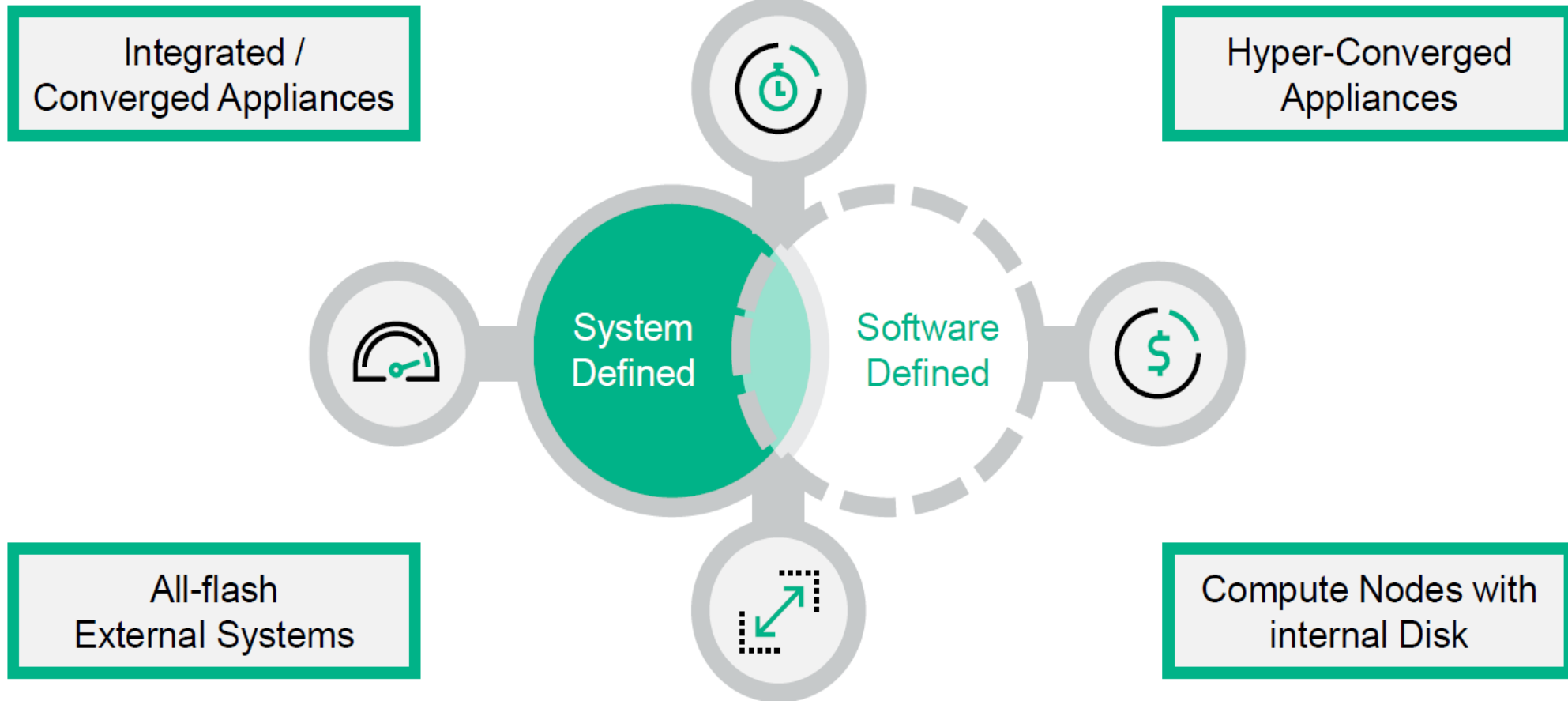
Shared storage  
array







Management

# Verden som vi ser nu – og fremad

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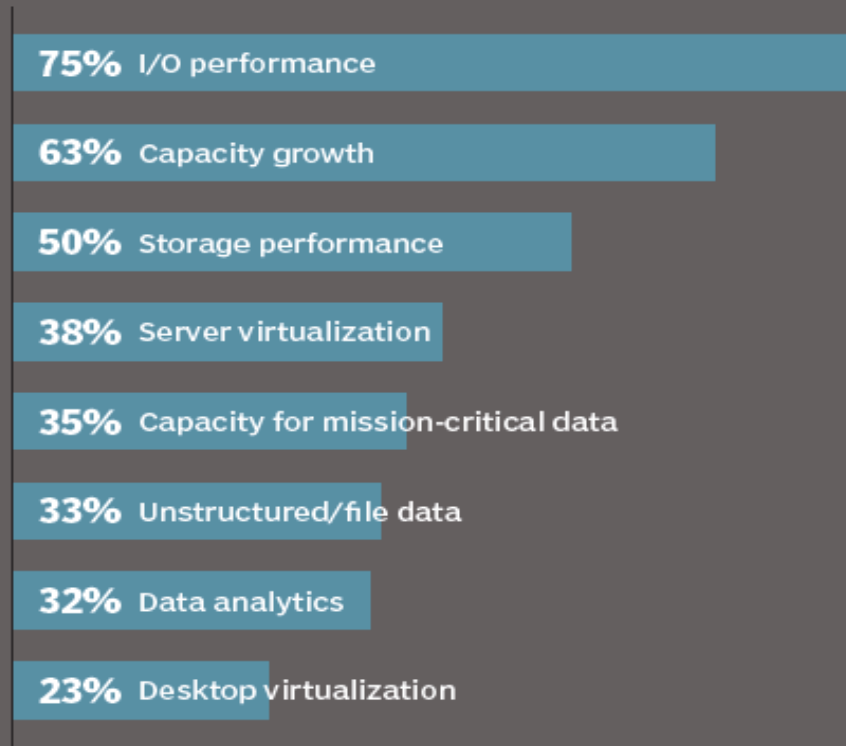


# Vækst i storage – FY 15 Q2

	 All HDD	 Hybrid	 All Flash
<p>Year over Year Revenue Growth</p> <p><b>WW</b> (2Q15)</p>	<p><b>-15%</b></p>	<p><b>-2%</b></p>	<p><b>+93%</b></p>

# Hvilke udfordringer løses – og hvor anvendes flash

## → Storage challenges prompting flash purchases

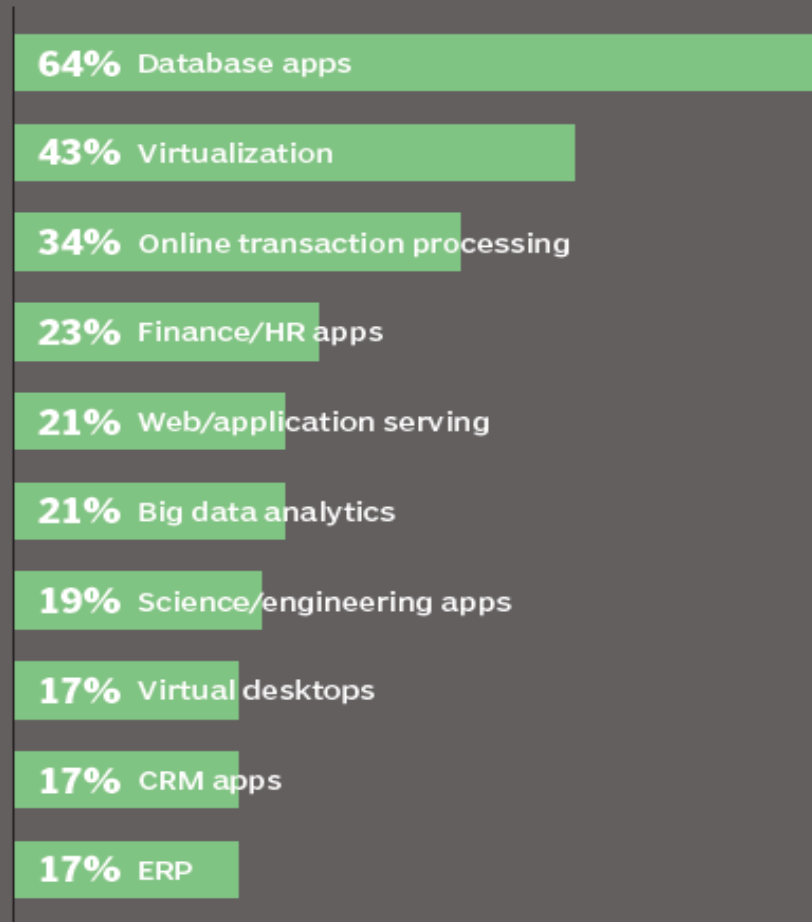


\*MULTIPLE SELECTIONS ALLOWED

## → Respondents' top four flash vendors

**1. EMC** | **2. HPE** | **3. IBM** | **4. Dell**

## → Top 10 use cases for currently installed flash storage



\*MULTIPLE SELECTIONS ALLOWED

# Næste forventede skridt i udviklingen – OO storage

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- Just like we move photos from devices to a PC...
  - Simplify management and use
  - Organize, protect and share photos
- IT uses object stores for similar reasons
  - Consolidate and organize
  - Protect and preserve
  - Manage and search



# På forståeligt sprog - 😊

- What if data could describe itself?
- Think of how that could
  - Simplify management
  - Facilitate protection
  - Serve as automation
  - Reduce costs
  - Mitigate risk
- That's the power of an object



Hi there, I am a PowerPoint file.

- I was created by John Doe on January 1, 2011
- Only the finance department can look at me
- I have not been accessed for 6 months
- Save your money, I don't need to be replicated
- I contain information about a merger, so you should retain me for 10 years in case you get investigated
- Delete me on January 1, 2021 to free up some storage space and reduce legal exposure



# Så opsummering - storage



Object is the new NAS & development platform



Object Storage = commodity hardware + software functionality



"Fast" spinning disk is dead TODAY  
spinning disk is dead "soon"



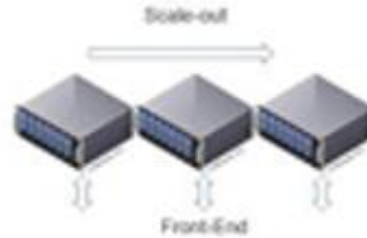
All Flash Array = flash with dedup and compression and "fast enough performance"



20% of the worlds data is structured  
80% of the worlds data is unstructured  
(growing 10x structured)



Traditional Apps will run on "traditional platforms" (scale-up and on FLASH)



Next Generation Apps will run on hyper-converged / scale-out platforms (direct attached storage with flash)



Customers want "cloud like experience" (pricing, operations, scale, etc)



"Software Defined", Cloud, HyperConverged

# Tak for i dag

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