



**It's Better to be Smart
than High
...When it Comes To Availability**

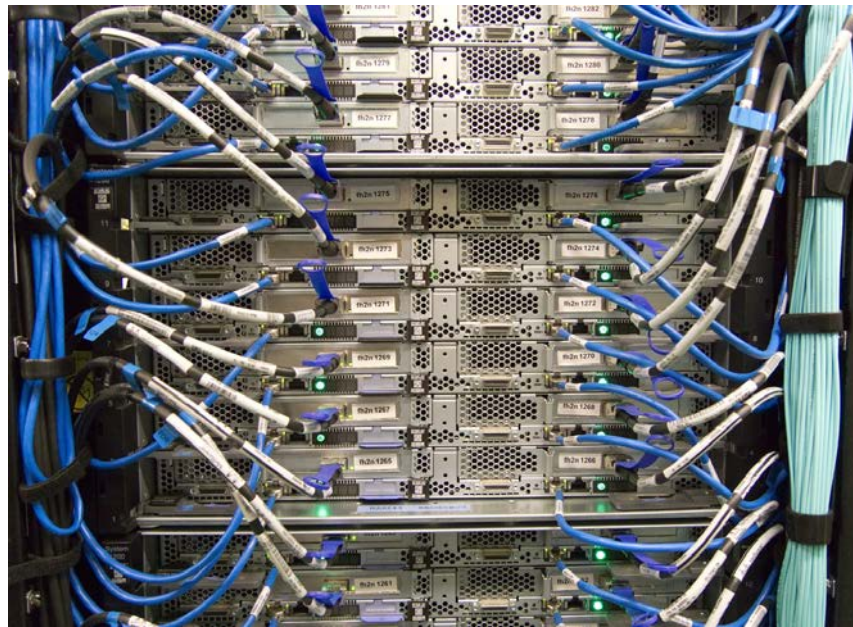
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Agenda

- Modern IT Trends
- High Availability
 - » Definition
 - » Drawbacks
- Smart Availability
 - » Digital Business Transformation

What is High Availability?

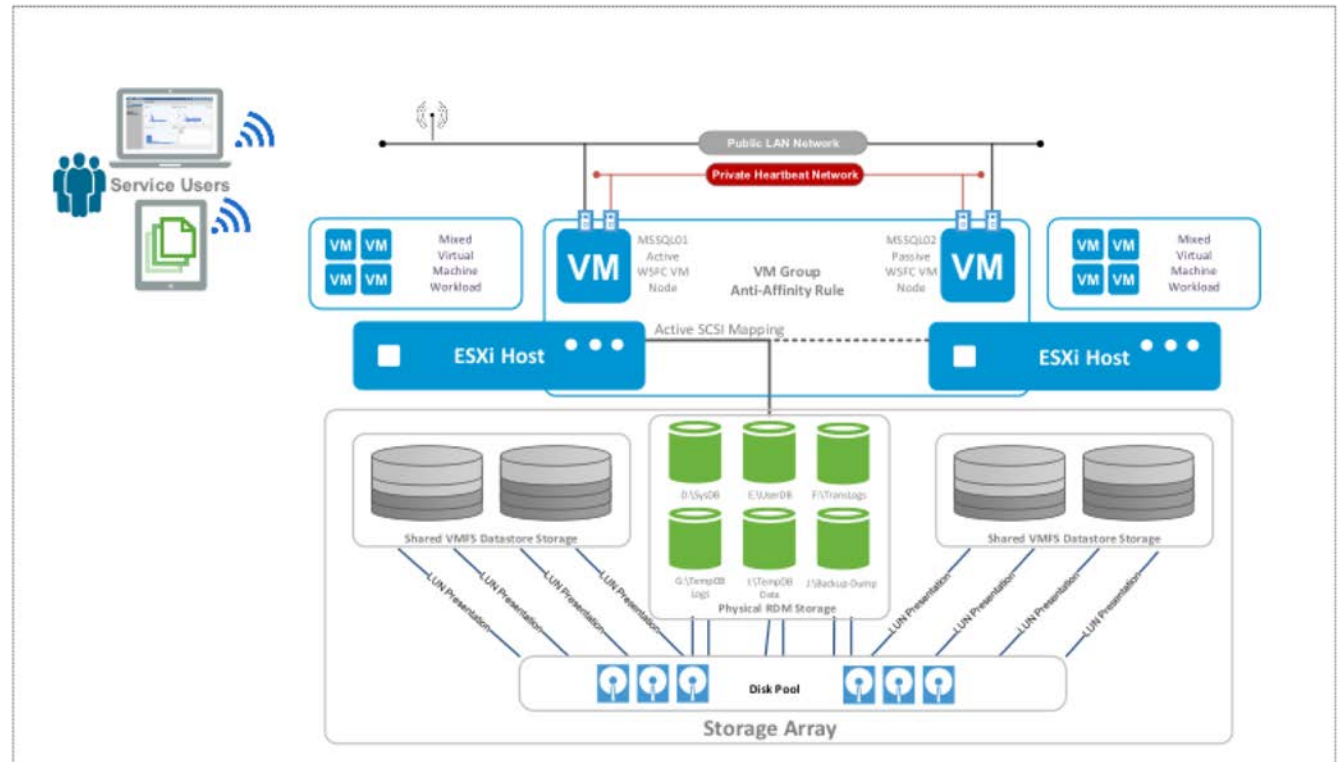
- “**Availability** is the assurance that an enterprise’s IT infrastructure has suitable recoverability and protection from system failures, natural disasters or malicious attacks.”



<https://www.gartner.com/it-glossary/availability/>

Common Approaches to High Availability (HA)

- Failovers
- Clustering
 - » VM
 - » App



High Availability Challenges

- Reactive
- High Cost
- Not granular enough
- Testing & troubleshooting overhead
- Redundancy = broader data landscape
 - » Security & data governance complexity



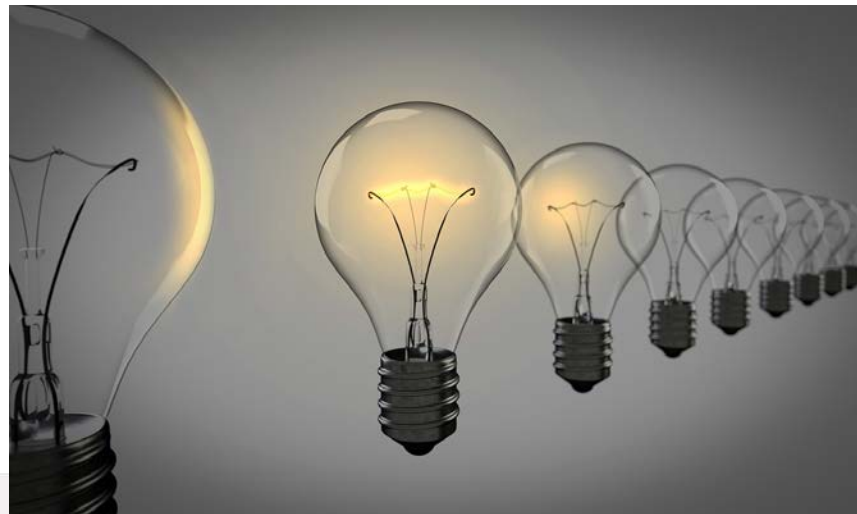
Digital Transformation

- “**Digital Business Transformation** is the process of exploiting digital technologies and supporting capabilities to create a robust new digital business model.”¹
- How?
 - » Account for varied computing environments
 - » Align infrastructure with business objectives
 - » Improve efficiency and cost
 - » Adapt quickly to changing requirements
 - » Outcome: IT as a source of competitive advantage
- *Traditional HA is no longer enough to support modern digital transformation*

¹<https://www.gartner.com/it-glossary/digital-business-transformation/>

Smart Availability

- Expands upon basic high availability (dedicate resources between systems to prevent downtime)
- Automatically move workloads to maximize competitive advantage
- Enables workloads to run on their best execution venue (BEV)
 - » Cost
 - » Performance
 - » Data locality
 - » Etc.



Smart Availability = Flexibility

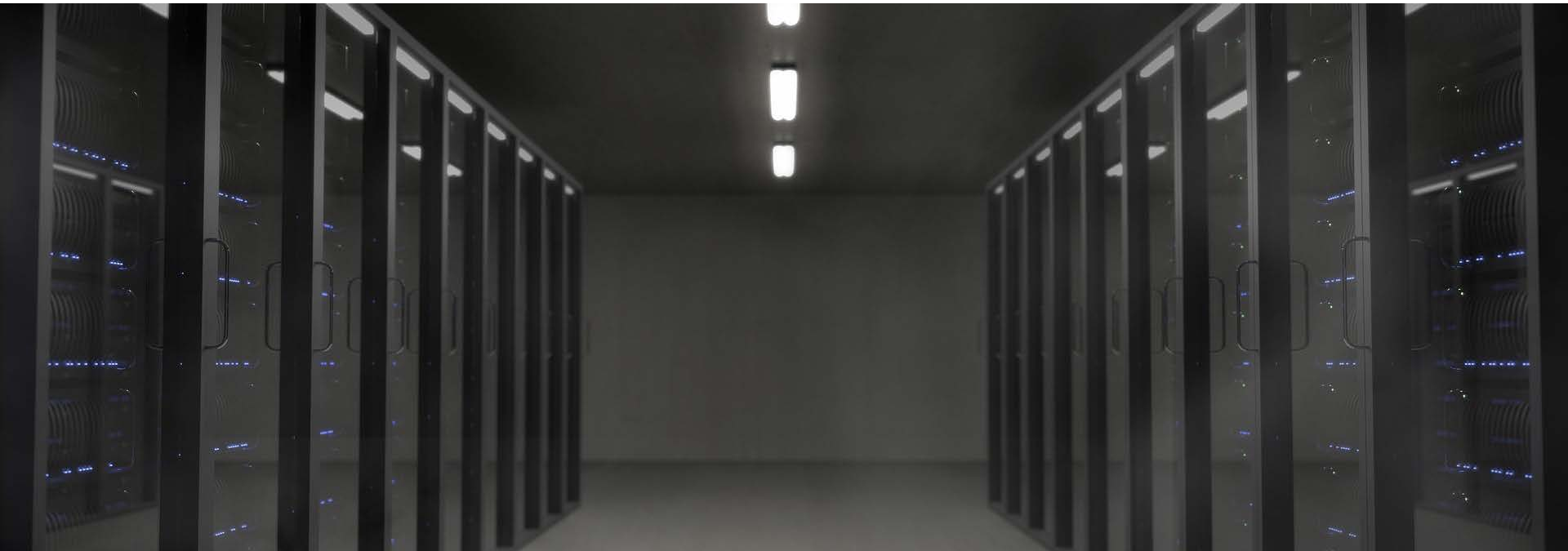
- Modern IT infrastructures are not homogeneous
 - » Windows, Linux, Containers
 - » Bare-metal, VMs, Cloud
 - » Legacy & new systems
- Smart Availability provides the flexibility to move workloads between these different infrastructures

Smart Availability's Implications to Digital Business Transformation

- Analytics
 - » Analytics data is often spread across many disparate environments
 - On-prem, cloud
 - Windows, Linux, containers
 - » Smart Availability can be the catalyst to helping perform analytics as close to the data as possible
- Cloud
 - » Pay-per-use pricing model
 - » Decreased infrastructure
 - » Elastic scalability
- Compliance/Data Governance
 - » Move or maintain workloads & data on certain platforms for compliance reasons

Smart Availability

- The next step in the evolution of availability
- Enabler of Digital Business Transformation



Q&A

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