

Multi-Cloud Computing in a Single Unified Network Infrastructure

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Agenda

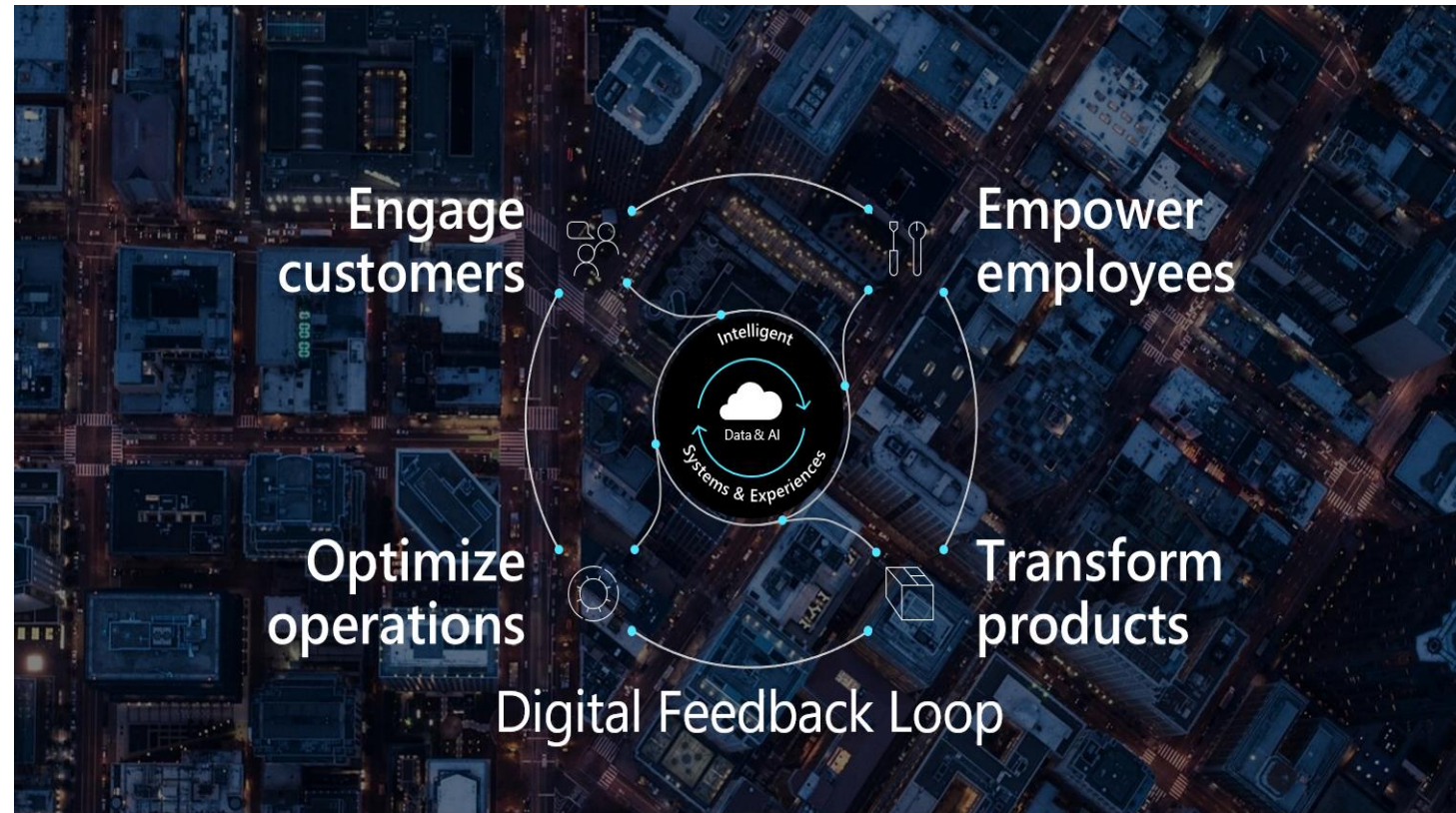
- Introduction
- Digital Transformation- the driving factor
- What is Multi-cloud and why have one?
- Multi-cloud is not hybrid, or is it?
- What are the benefits of Multi-cloud?
- What are the challenges of using Multi-cloud?
- Cloud & Data Center Architecture

Digital Transformation – The driving factor

A journey, not a master move!

- ❑ Engage your customers
- ❑ Empowering your Employees
- ❑ Optimizing your operations
- ❑ Transform your products

Drives the demand to run workloads



What is Multi-cloud and why have one?

- ❑ Increasingly digital economy heavily depends on the ability to run workloads within the most appropriate environments
- ❑ Budget moved away from IT and now belong to the Business Decision Makers
- ❑ When a company uses several private and public cloud solutions
- ❑ The combination of software as a service (SaaS), platform as a service (PaaS) and infrastructure as a service (IaaS) models
- ❑ Ability to leverage multiple providers to complete one customer environment
- ❑ Every provider has strengths and weaknesses

Multi-cloud is not hybrid, or is it?

- ❑ Hybrid cloud refers to the pairing of an on-prem datacenter and public cloud
- ❑ A hybrid solution relies on a private data centers, which leverage the advanced computing resources of the public cloud (directory sync, extent/expand, test & dev. etc.)
- ❑ To maintain the security and privacy of sensitive data on-site or within a privately hosted cloud.
- ❑ **A hybrid cloud model is also a multi-cloud model, isn't it? Or not?**
- ❑ Multi-cloud has two or more public clouds, which is not the case in a hybrid cloud deployment
- ❑ Multi-cloud can be hybrid and can also exist without individual clouds to talking to each other

My conclusion? A hybrid cloud is a subset of the multi-cloud.

What are the benefits of Multi-cloud?

- ❑ To achieve business and technical goals
- ❑ Price-competitive cloud services, advantage of performance, capacity or features offered by specific cloud provider in a particular geography
- ❑ To meet regulatory requirements by selecting multiple Cloud providers' datacenter regions or availability zones (cl8 Equinix & Azure partnership)
- ❑ Some cloud environments may be tailored for specific use cases (Palo Alto SD-WAN)
- ❑ To avoid vendor lock-in

What are the benefits of Multi-cloud (cont.)?

- ❑ To achieve optimal performance and minimal latency when the Cloud is as close as possible to end users
- ❑ Local Internet traffic - Internet exchange point (IX)
- ❑ A multi-cloud architecture can improve reliability - the DR or failover solution
- ❑ Well designed multi-cloud architecture can minimize DDoS attacks by providing a level of resiliency not available with a single provider
- ❑ Multi-cloud can be an effective strategy for combating shadow IT - allows groups to comply with IT policy while benefiting from a specific cloud technology.

What are the challenges of using Multi-cloud?

- ❑ Different management tools – expensive, create silos, additional complexity
- ❑ Skill gaps - hard to find staff, or with the multi-cloud skills
- ❑ Data Sharing –difficulty in synchronizing and sharing data, different provider standards, technology and API differences
- ❑ What about End of life & old legacy systems, LoB integrations, slow upgrades?
- ❑ Lack of unified security – Difficult to Detect, Protect, Respond
- ❑ There are multi-cloud management tools/platforms – need improvement
- ❑ There is no single best practice guideline for managing multi-cloud - each organization's use case will be unique

Cloud & Data Center Architecture

Realizing the benefits requires a solid strategy to map out opportunities, requirements, solutions and Cloud Providers!

- Private Cloud (Virtual Data Center)
- Colocation Services (HW/Network, Azure Stack / HCI)
- Bare Metal / Dedicated Servers
- Cloud Storage & Cloud Backup solutions
- Managed Services
 - ✓ Consulting, design, Implantation, Support
- Business Continuity Services
 - ✓ Hot Seats / Cold Seats
- Management tool:
 - ✓ Simulate migrations, inventory, security, migration, cost forecasting



Multi-cloud – Hybrid – On-Prem Single Vendor Approach

YOUR CLOUD. YOUR WAY.



Decision Criteria

- Certifications
- 24/7/365 Support, Real people, Real Time
- Data Center, Cloud & Managed Services
- SLA for provided services
- Team of highly qualified professionals
- Multiple ISPs, Multiple Paths
- Highest Standards and Certifications
- Packaged and Custom Solutions



Video

- Our People!
- Our Cloud!
- Our Data Center!

