AZURE EXPERIENCES SHARED actual examples from reallife implementations

Eric Berg



















































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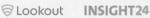


















AGENDA

Why moving to the cloud?

Moving, Migrating, Building?

Where to start and what to consider?

Cloud Readiness – Bottom Up Approach

Cloud Roles – Top Down Approach

Azure Migration - Technical

Planning for the future...

What's next?!



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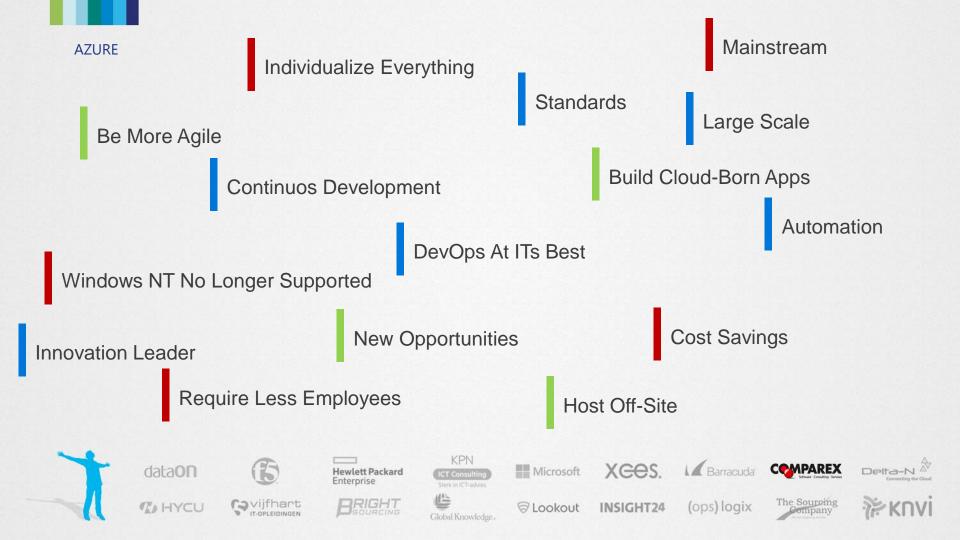


Why moving to the cloud?

"Here we are, trapped in the amber of the moment. There is no why."

Kurt Vonnegut Jr.







Moving, Migrating, Building?

"The destination is one thing. Getting there is everything."

Unknown



Lift and Shift - Rehost

Easy going and what you already know
Common scenario in IaaS situations
Workload migration on SaaS scenarios
Higher cost
More individuality







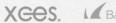














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Migrate and Change - Refactor

Breaking with old standards

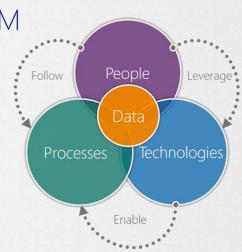
e.g. use SQL as a Service instead of laaS VM

Application Layer decision

Cost saving

Transformation to a future model

More complex







































Cloud Born - Develop

Start over and rethink everything

Continous development

DevOps at ITs best

Leverage PaaS from start

Avoid laaS

Stop developing existing things























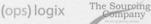
















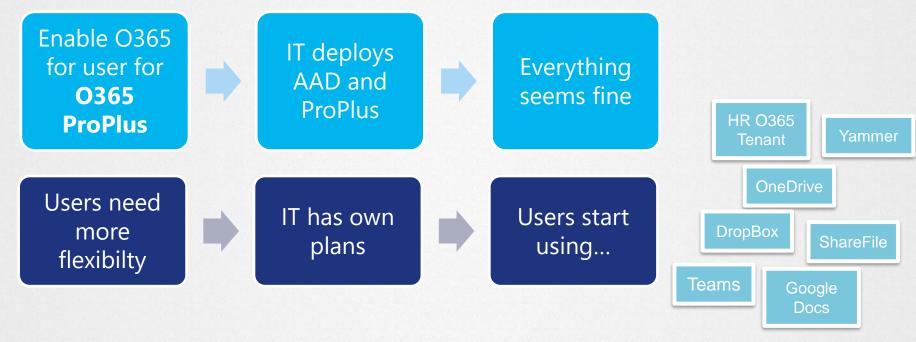
Where to start and what to consider?

"Stop doing what is easy. Start doing what is right."

Roy T. Bennett, The Light in the Heart

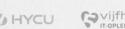


Scenario 1 – Office 365 ProPlus





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Scenario 2 – Azure Migration

Company signs Azure EA



IT deploys first subscription



Migration of resources is planned

New carreer portal is built by partner



Cost is billed to cost center

HR signs CSP contract



Cost is billed to corp CreditCard



Runs new SAP farm in Azure



Subsidiary uses Azure via CreditCard

(- 1/11A)









Scenario 3 – Application Move

Azure Subscription is set up



Application is migrated to Azure



Up and running in the cloud

License fee and penalty



Contract does not allow usage Off-Site



Software Vendor checks compliance



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Hewlett Packard Enterprise



KPN





















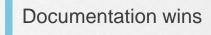


Where to start?

Check your inventory Check your contracts Check your needs Check your benefit Check the solution

Information is the base of success

→ Azure Governance Concept



































What to consider?

Azure is too simple → Everybody can use it

Define the rules and check it twice

Azure consumption is billed → there is no limit

Solution must fit your needs

Users are the key to success

Identity is the new perimeter

Moving to the cloud is a transformational process

Roles and Rules are key

"In Azure nobody cries for you!"

Eric Berg



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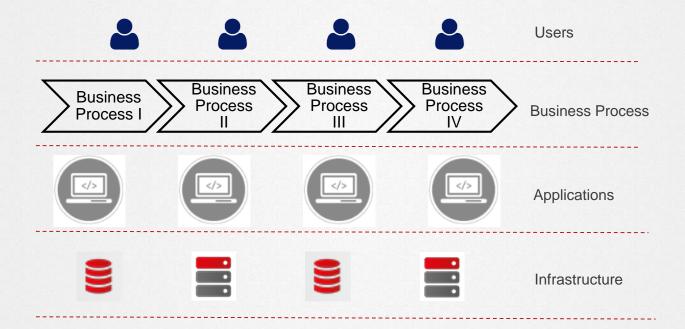








What to consider?





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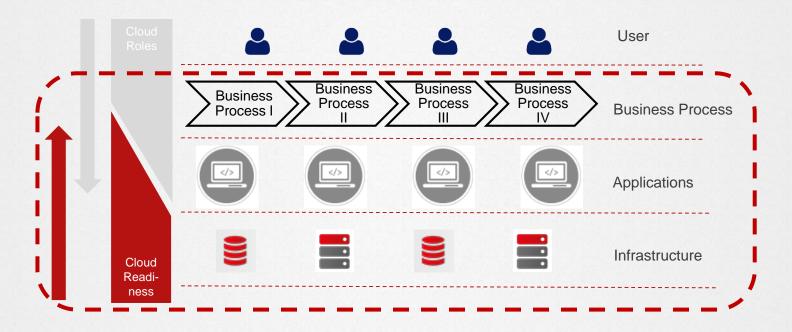
Cloud Readiness Bottom Up Approach

"Success is how high you bounce when you hit the bottom."

George S. Patton



Cloud Readiness





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TO HYCU



Hewlett Packard Enterprise



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AZURE

Cloud Readiness

Inve	ntory		Result		
Scope Definition	Scan	Architecture	CMO Cost	FMO Cost	Presentation
	Q				
Define "Cloud" "Know" the customer Base Inventory	Assessment and Scan Define Current Mode of Operation (CMO) Define useful scenarios	Build Architecture Blueprint Define Governance Rules Analyse Scan Results	Map Cost to CMO Figure out pain points	Define future scenario Estimate cost Compare CMO to FMO cost	Define cloud potentials Explain FMO Develop and communicate roadmap





M HYCU































Transformation

Build logical blocks → do not move ERP without DB

Technical and licensing show-stoppers

Define your infrastructure requirements

Check your application compatibility

Think about processes

Development / Deployment

Update / Upgrade

Help-Desk

SLAs



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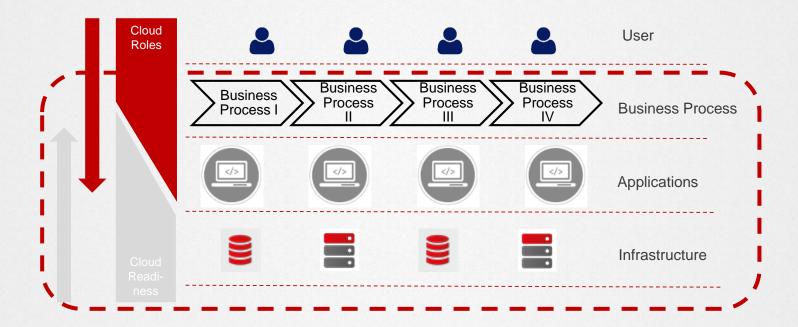
Cloud Roles Top Down Approach

"It is good people who make good places."

Anna Sewell, Black Beauty



Cloud Roles





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Hewlett Packard Enterprise

























Cloud Roles

Users

Mobile Workers

Office Workers

Security Workers

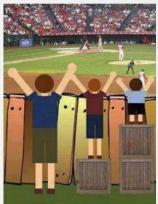
Admins

Infrastructure Admins

User Admins

Developers







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Global Knowledge.





















Transformation of Users

Consider users needs

Involve users in project

Use Key-User Framework

Implement required solutions

Explain and communicate blockers

Focus on benefits

Scope on applications

No IT without users

Users expect more

Business is the goal



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Transformation of Admins

Check todays roles

Provide future perspective

Explain and evangelize

Train and educate

Check processes and consider change

Move on to DevOps

Managed Service helps focussing

Growth mindset

Cloud Custodian

Focus on Business not IT



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"Transformation literally means going beyond your form"

Wayne Dyer



Networking

VPN / Express Route

DNS and Routing

Latency and Bandwith

Sizing

Right Sizing

Long Term Assessment



































Azure Site Recovery

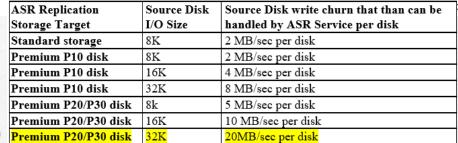
Infrastructure requirements

Attention: Busy workloads

3rd Party

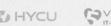
e.g. Veeam Restore to Azure

ASD Donling	tion	Course Dist	Course I	Diele wuite ab	own that they	a aon ha
Throughput per disk	25 MB per second	50 MB per second	100 MB per	125 MB per	150 MB per	200 MB per
IOPS per disk	120	240	500	1100	2300	5000
Disk size	32 GB	64 GB	128 GB	256 GB	512 GB	1024 GB (1 TB)
Premium Disks Type	P4	P6	P10	P15	P20	P30

























AZURE

Azure Migration Technical

Copy VHDs of VMs

Easy and less infrastructure requirement

High downtime

Use Application Methods

SQL Replication

AD Replication

Version	Edition	Deployment	On-prem to Azure
SQL Server 2014 or 2012	Enterprise	Failover cluster instance	Always On availability groups
	Enterprise	Always On availability groups for high availability	Always On availability groups
	Standard	Failover cluster instance (FCI)	Site Recovery replication with local mirror
	Enterprise or Standard	Standalone	Site Recovery replication
SQL Server 2008 R2 or 2008	Enterprise or Standard	Failover cluster instance (FCI)	Site Recovery replication with local mirror
	Enterprise or Standard	Standalone	Site Recovery replication
SQL Server (Any version)	Enterprise or Standard	Failover cluster instance - DTC application	Not Supported



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Automation

Use Azure Automation

Functions for switch

Migration

yes / no?

Better build from scratch?!



















xees.



















Planning for the future...

"The future depends on what you do today." *Mahatma Gandhi*



AZURE

Planning for the future

End to end planning save money and forecast cost keep an eye on resources better adoption of services Happy users

Serverless

Continous learning















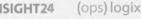
















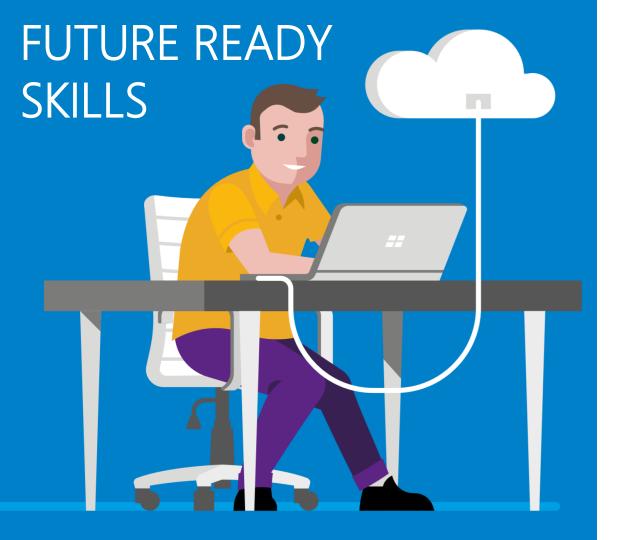


What's next?!

"On and on it goes, where it stops nobody knows."

The Kangaroo, Marc-Uwe Kling





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Questions?!

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