

# Hybrid Multi Cloud Solutions



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# Hybrid Multi Cloud Solutions

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# Agenda

- Why is a Hybrid Multi Cloud
- Challenges
- Management
- Integration
- Whats next





# Why Hybrid Multi Cloud

- What is a Hybrid Multi Cloud
- Disaster recovery
- Multicloud is *à la carte*
- Cost savings
- Prevent Cloud vendor lock-in

Most enterprises use Multi Cloud to avoid cloud vendor lock in

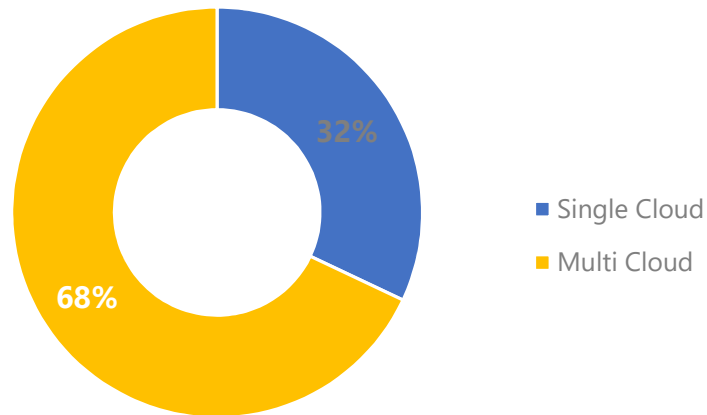


# Multi Cloud motivators



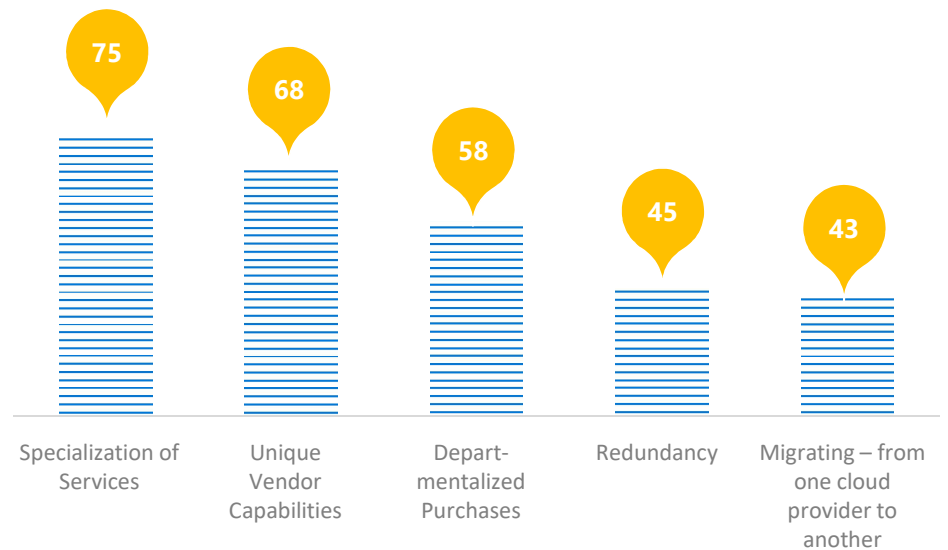
Two-thirds of Enterprises strategically choose to use multiple cloud providers based on specific use cases or unique capabilities. In in-depth interviews, customers also cited avoiding vendor lock-in as a reason for multi-cloud.

## Number of Public Cloud Providers Used



## Reason for Using Multiple Cloud Providers

(% of Respondents)



# Challenges

- On-premises and cloud management complexity
- Managing multiple specialty tools
- Time consuming/difficult to bring data sources into one view
- Cloud management is not so easy
- Skilled personnel is hard to find
- Emergence of shadow IT
- Network latency
- Single multi cloud management tool

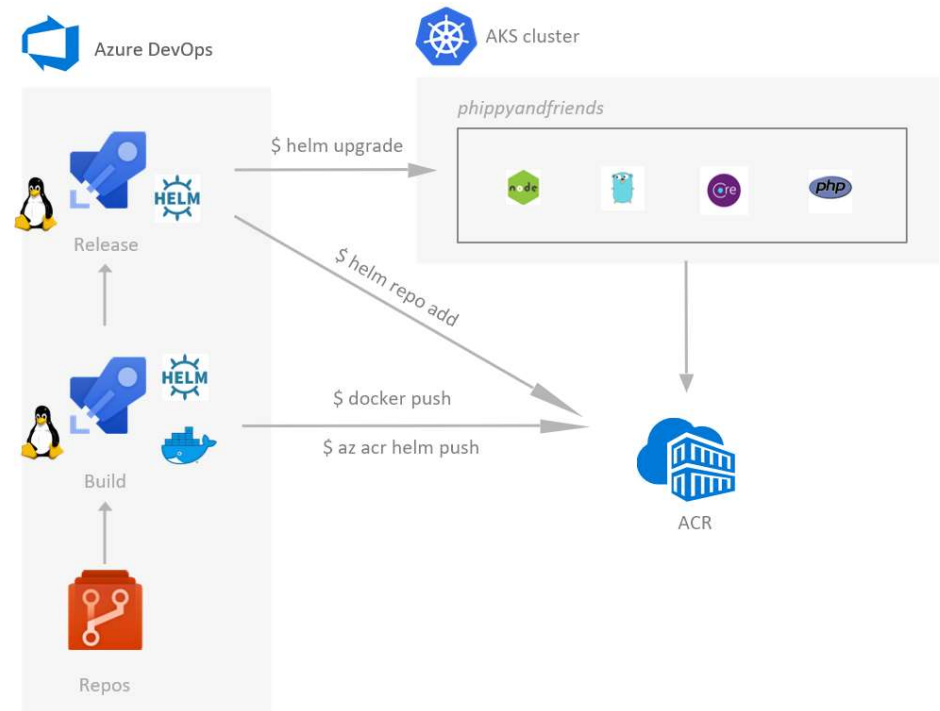
**75% of IT Buyers**  
believe they need new management  
software to address complexity



# DEMO - Containers

Containers bring a new abstraction layer that fits well in Hybrid Multi Cloud environments

Think of portability and prevention of (platform) lock-in



Parrot is in .NET Core, CaptainKube is in Go, Phippy in PHP and NodeBrady in Node.js.



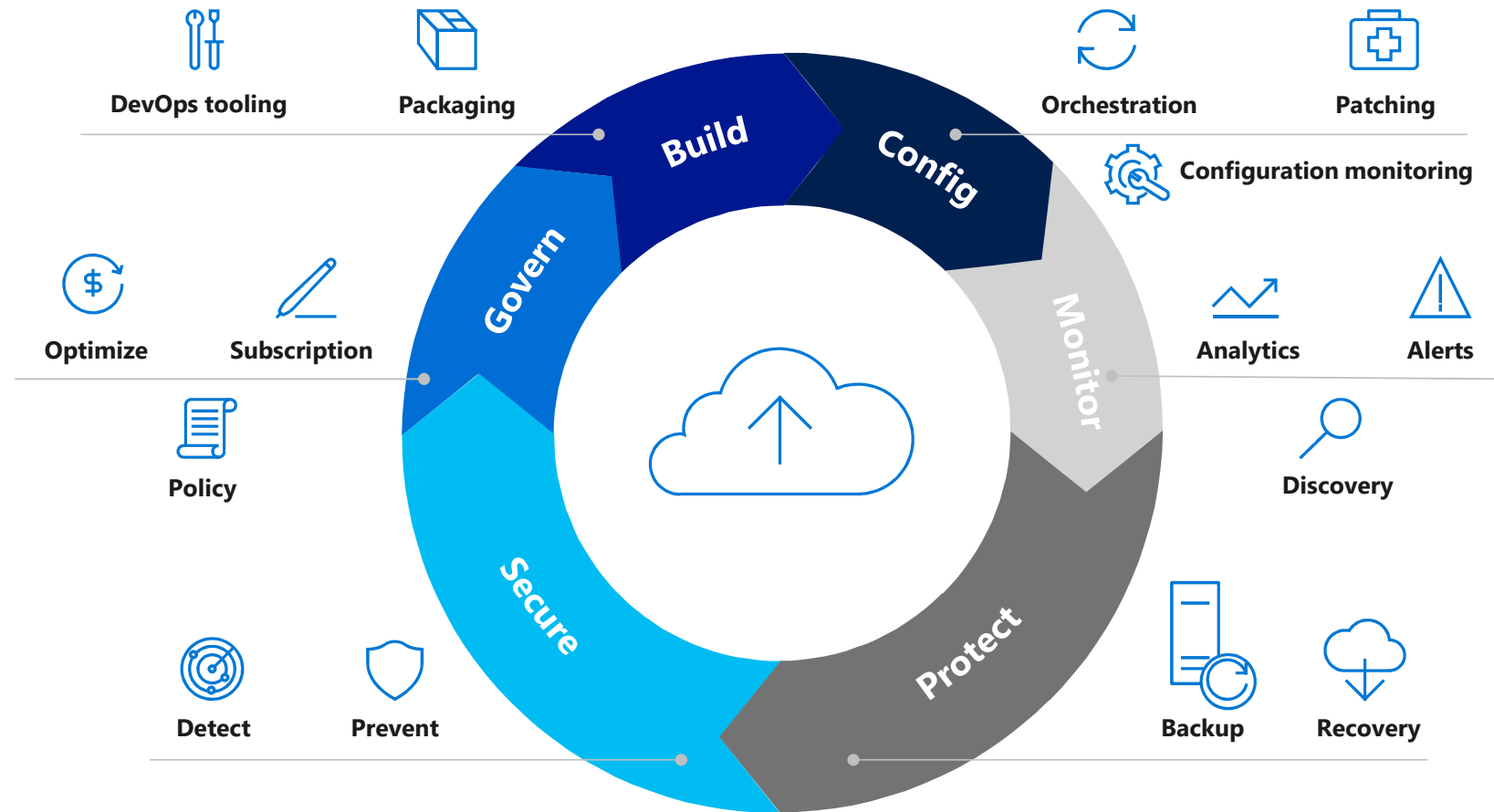


# Hybrid Multi Cloud Management





# Hybrid Cloud Management – a holistic approach



# Monitoring tooling



## Log analytics



## Service mapping



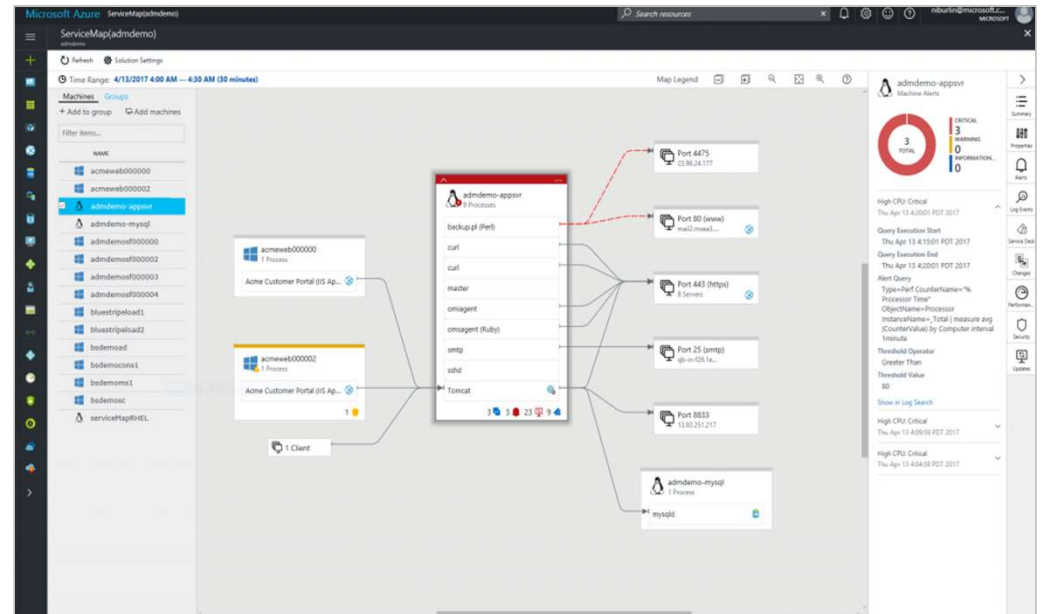
## Network performance monitoring



## Office 365 monitoring



## Platform as a Service (PaaS) monitoring



# Patch management



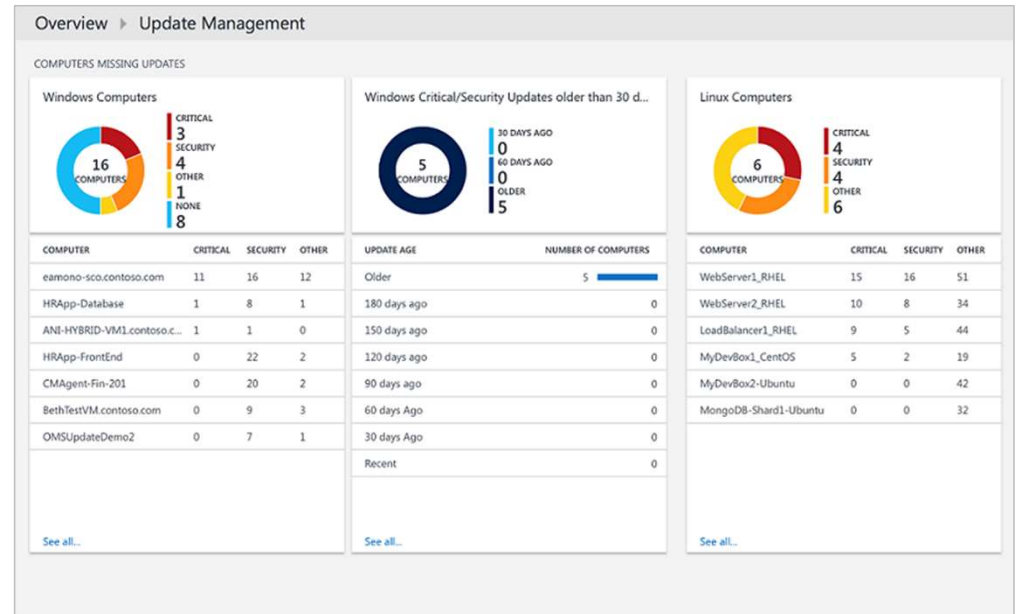
Patch insights  
(before, during, after, reliability, coordination)



Patch orchestration  
(sequencing, pre/post steps, etc.)



Workload aware patching





# Backup and recovery technologies

Create dedicated backup environments in Azure and set predetermined backup policies for rolling automated backups across cloud and on-premises infrastructure



Hybrid data protection



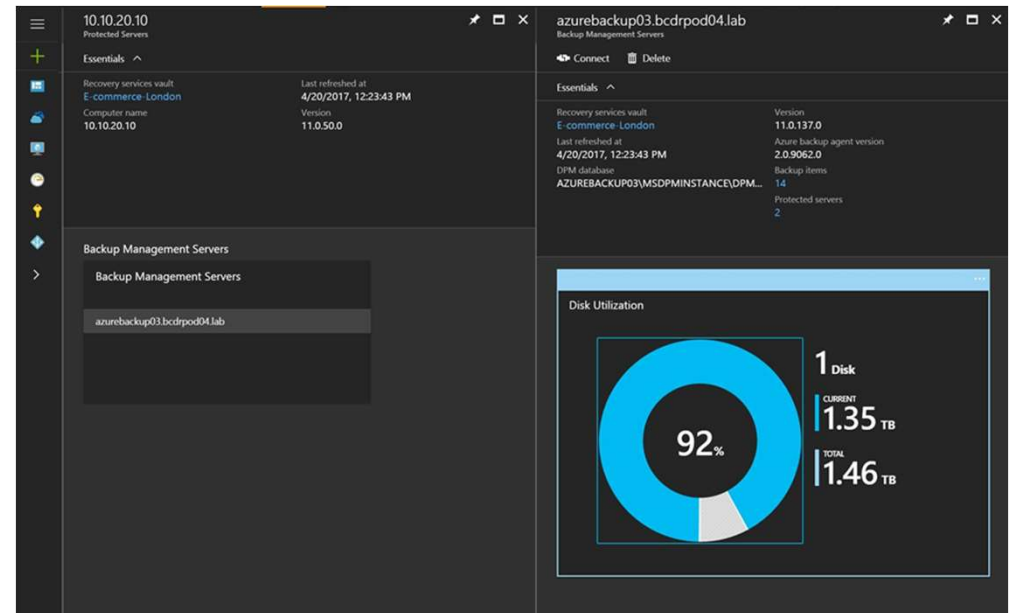
Direct-to-cloud service



Last line of defense against ransomware

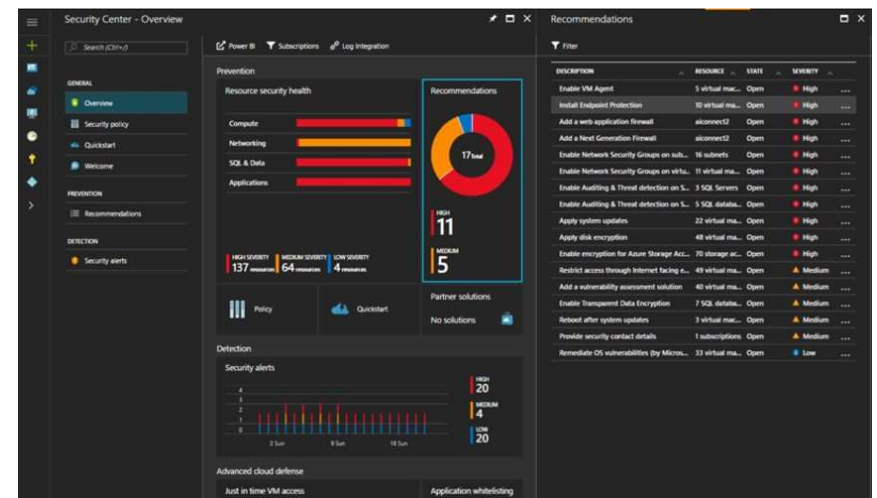


On-premises backup to Azure



# Demo

## Azure Monitor & Security Center



# Integration

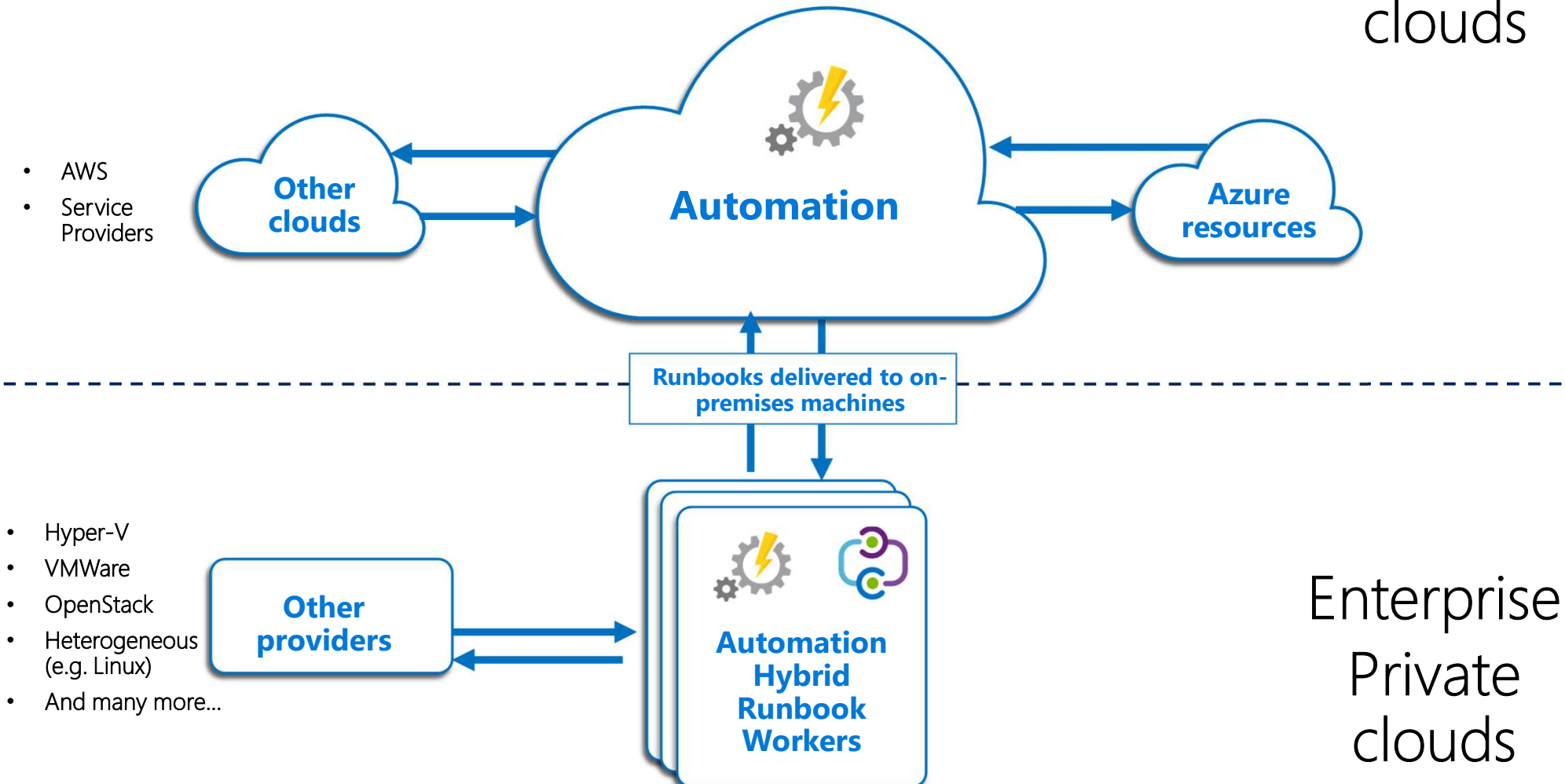
- What is the effect on Service Providers
- How to integrate Clouds
- Combining Dev Ops and ITSM tools

Integration is one of the key features for enterprises as they want to be able to compare environments



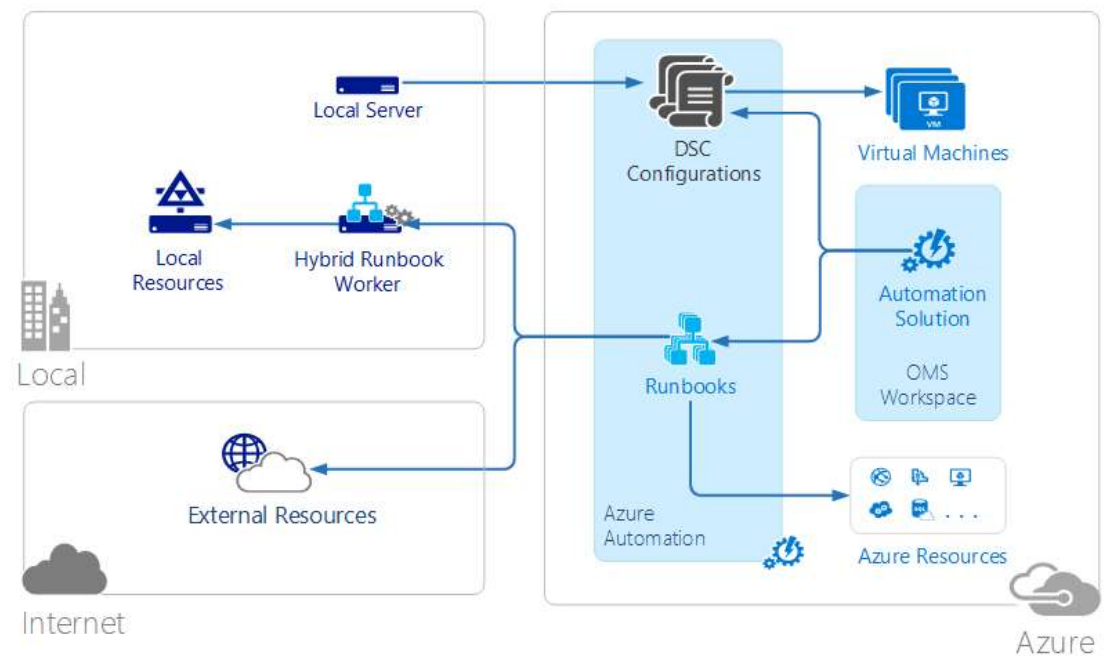


# Hybrid Integration

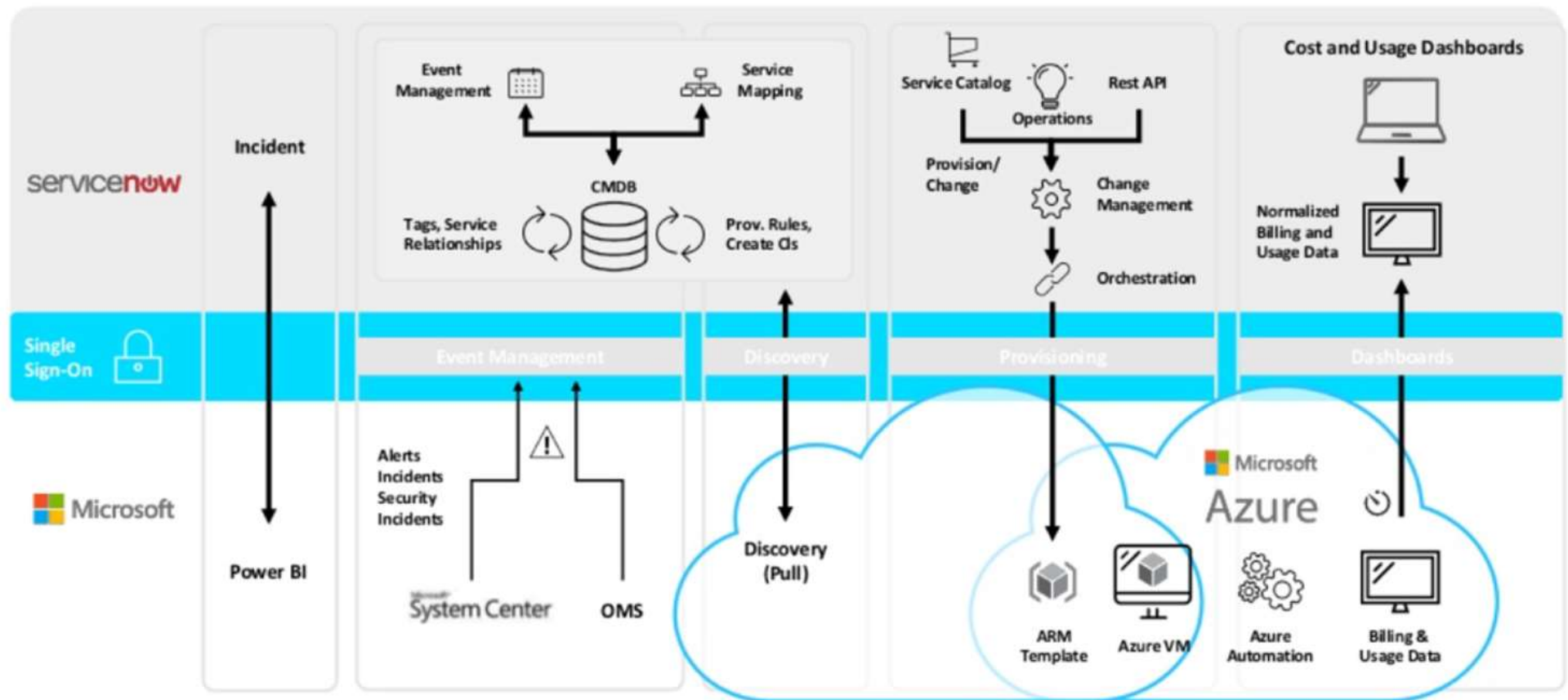


# Demo

## Azure Automation

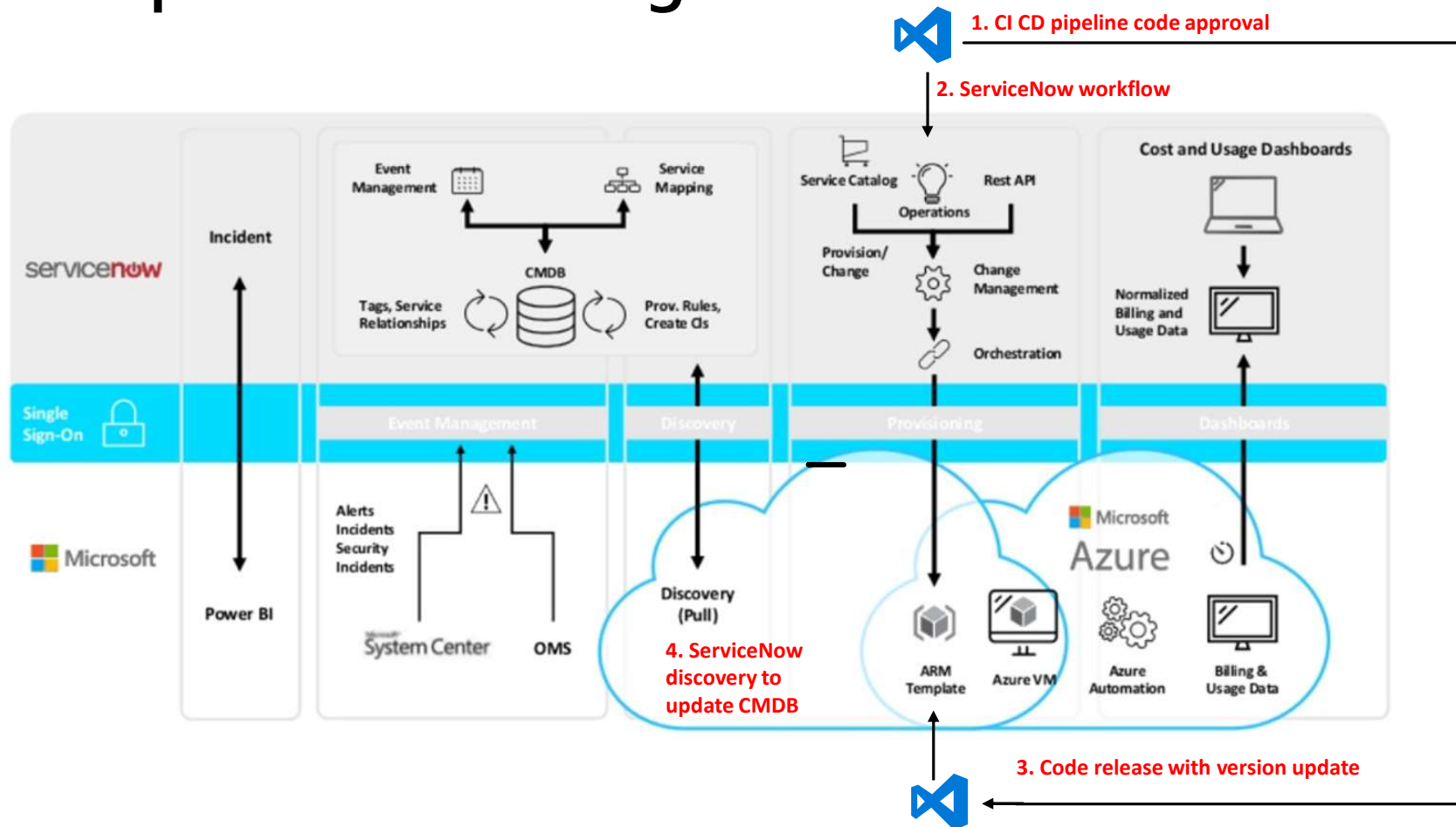


# Cloud and ServiceNow

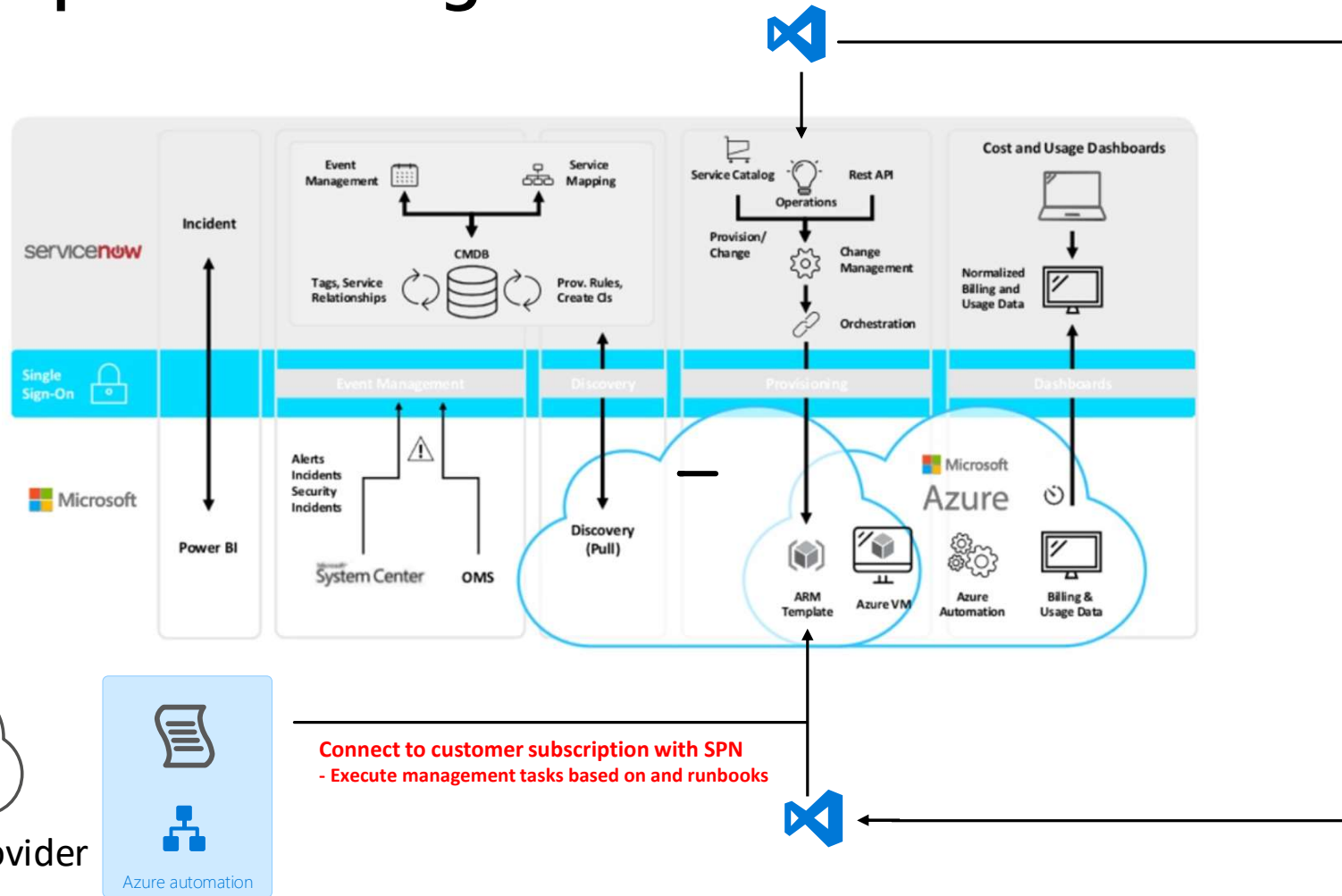




# Dev Ops and ITSM integration



# Service provider integration



# What's in the future ?

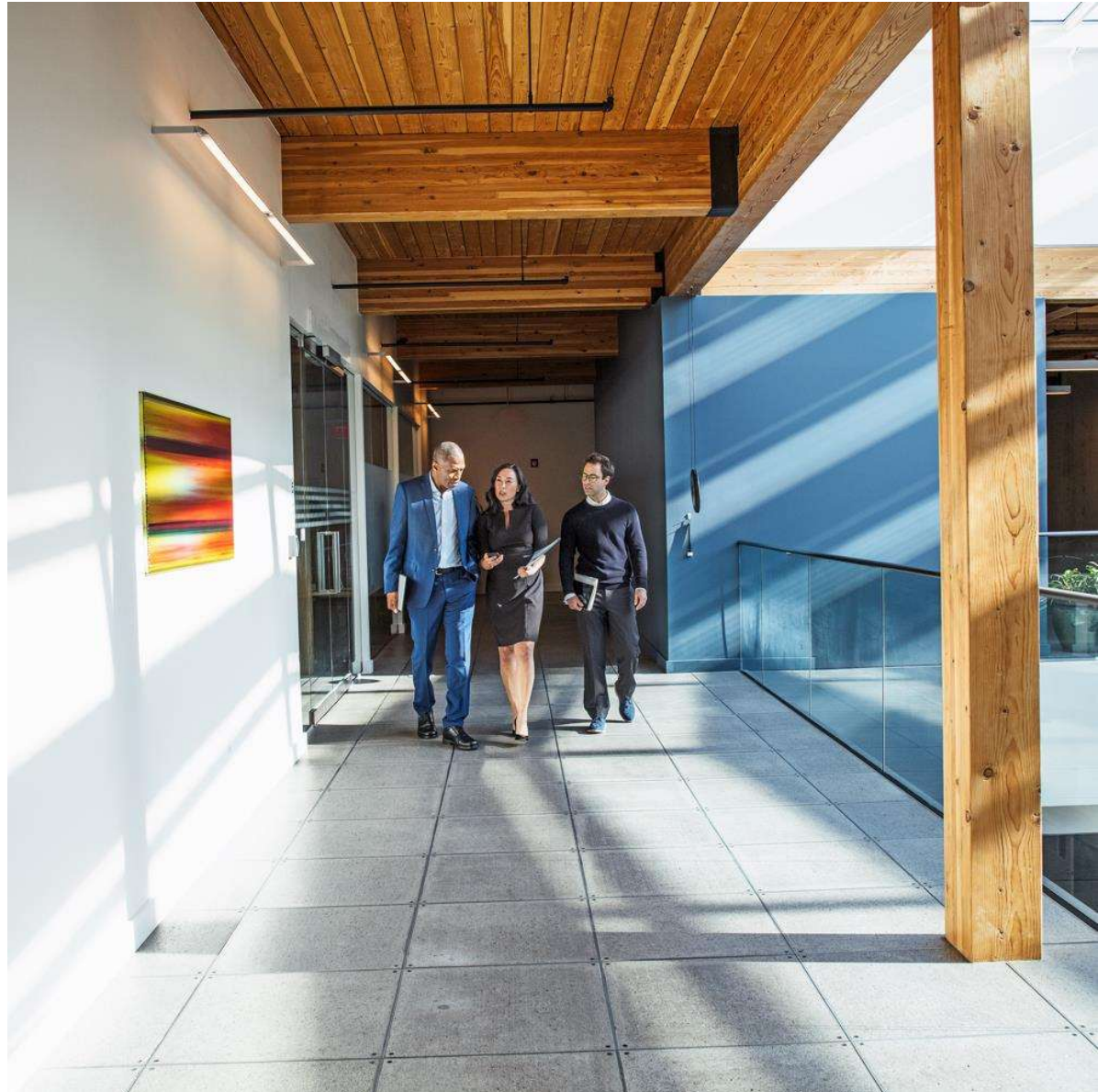
The multi cloud dream

Clouds are complex and expertise is hard to find

Large enterprises like eg Shell, Philips keep a multi cloud strategy

SMB's and smaller Enterprises will choose 1 cloud

Partners and service provider can make the difference



# Why Microsoft ?

We are Multi Cloud

We are Hybrid

We embrace Open Source

We integrate with all clouds

We manage all clouds

We empower people to achieve more







# Thank You!

ευχαριστώ    Salamat Po    متشكراً    شكراً    Grazie

благодаря    ありがとうございます    Kiitos    Teşekkürler    谢谢

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Mulțumesc    спасибо    Danke    Cám ơn    Gracias

多謝晒    Ďakujem    תודה    நன்றி    Děkuji    감사합니다



# HYBRID MULTI-CLOUD SOLUTIONS DOOR BENJAMIN TISSINK & PAUL VERBOOM

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- Of start dit op met de QR code;

