

KCOM

# The five pillars of Azure Best Practice



Re-imagine how.

# Welcome



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# Why consider best practices?

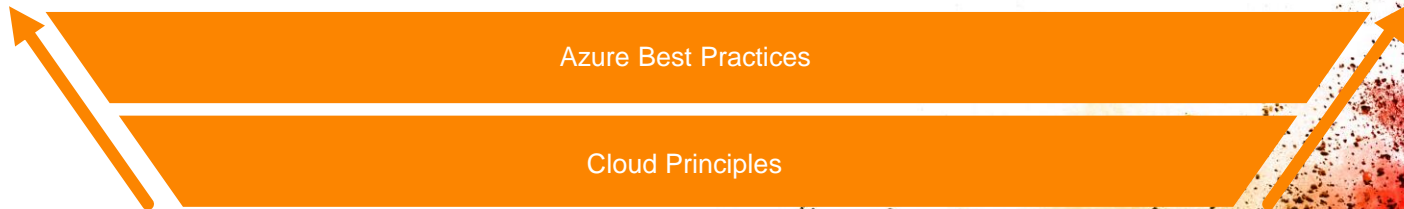
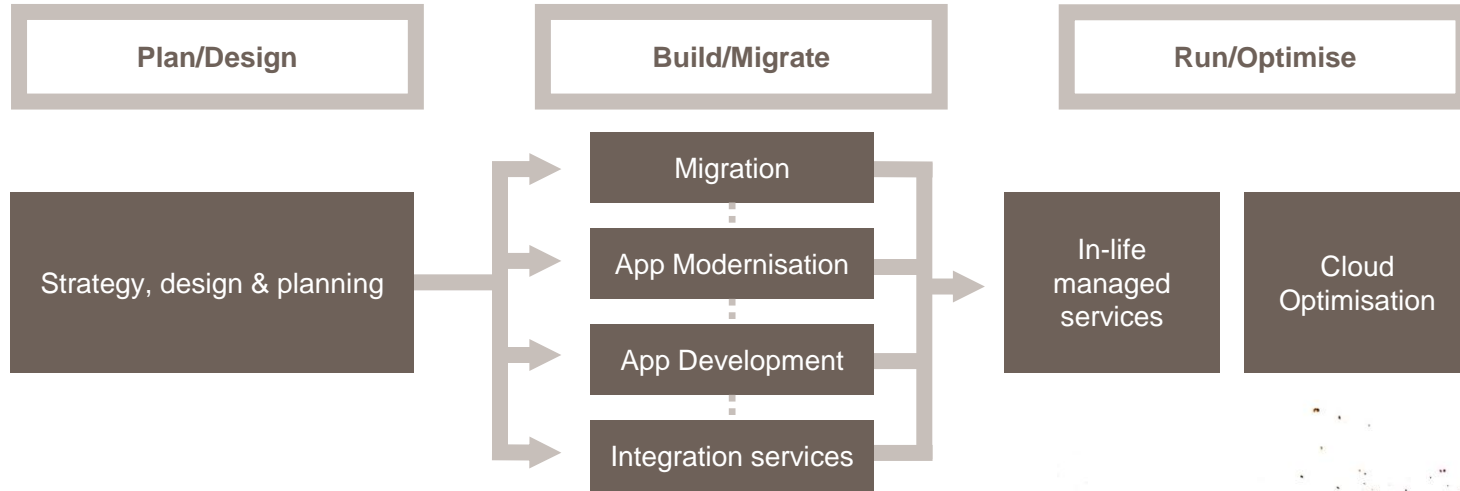
- It's easy to start creating Azure solutions, but getting Azure right is another matter
- Fast rate of change and innovation = benefits and challenges

# What can you do about this?

- Have some cloud principles – apply these to everything you do
- Follow best practices at all stages of your cloud lifecycle



# Underpinning principles and best practices



# KCOM cloud principles



**Application down**  
Not infrastructure up



**Design for the cloud**  
Go native



**Agile**  
Adaptive designs



**Secure**  
By design



**Automate**  
Repeatability



# KCOM Azure Best Practices



## OPERATIONS AND DEVOPS

Cloud lifecycle

Monitoring and management

Process automation

Governance

Continuous improvement



## SECURITY

Cloud IAM

Infrastructure Security

Application security

Protecting data

Operational security



## RESILIENCY

Business objectives

Designing for resiliency

Infrastructure design

Database management

Security and resilience



## SCALABILITY AND PERFORMANCE

Application Scalability

Infrastructure Scalability

Data management

Scale units

Performance Testing



## COST OPTIMISATION

Resource selection

Billing management

Predictability

Monitoring

Licensing benefits





Operations and  
DevOps



Security



Resiliency



Scalability and  
Performance



Cost Optimisation

# Automate, automate, automate

- Automate deployments
- Automate operations
- Automate responses to alerts

**“Think big, start small, move fast”**



 Operations and DevOps

 Security

 Resiliency

 Scalability and Performance

 Cost Optimisation

# Secure access to your infrastructure and apps

- Define clear roles – apply the principle of least privilege
- Use Azure RBAC for infrastructure access
- Integrate your applications with Azure Active Directory
- Integrate with your on-prem Active Directory tenant
- Manage access keys





# Resiliency, be strategic

- Understand your business requirements
- How much downtime is acceptable to your organisation?
- What will this cost your business?
- Drive your application and infrastructure design from these requirements

**“Don’t avoid failures, plan for them”**





Operations and  
DevOps



Security



Resiliency



Scalability and  
Performance



Cost Optimisation

# Scale your apps and infrastructure as one

- Design the application for scaling
- Apply scalability patterns
- Consider your data management
- Use Azure auto-scaling features



Operations and DevOps

Security

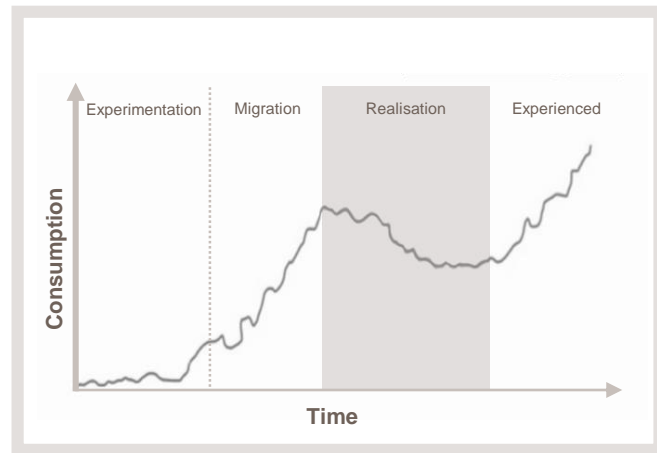
Resiliency

Scalability and Performance

Cost Optimisation






## Avoid a WTF moment

- Aim to minimise the impact of the realisation phase
- Use tools to monitor costs and perform right-sizing
- Aim for visibility and cost transparency
- Use resource tagging so costs can be attributed
- Educate stakeholders to get the best out of Azure



# In summary

- Consider best practice at every stage of your cloud journey
- Perform frequent reviews
- Prioritise review findings

 OPERATIONS AND DEVOPS	 SECURITY	 RESILIENCY	 SCALABILITY AND PERFORMANCE	 COST OPTIMISATION
Cloud lifecycle	Cloud IAM	Business objectives	Application Scalability	Resource selection
Monitoring and management	Infrastructure Security	Designing for resiliency	Infrastructure Scalability	Billing management
Process automation	Application security	Infrastructure design	Data management	Predictability
Governance	Protecting data	Database management	Scale units	Monitoring
Continuous improvement	Operational security	Security and resilience	Performance Testing	Licensing benefits



# Questions?

Find us at stand 18 or get in touch  
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