

CLOUD PRACTICE





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CLOUD PRACTICE LEAD

Brett Hargreaves, previously Principal Azure Architect for one of the Big Four, has recently joined Iridium. His goal is to develop our own cloud practice to offer our clients the best possible guidance on their cloud service whether that be from a zero-presence position to full cloud adoption.

KEY ACHIEVEMENTS WITH CLOUD

- Architected and implemented Deloitte cloud platform across EMEA with multiple compliance requirements
- Employed high levels of automation via Azure Policies and DevOps to strictly maintain governance controls
- Increase cloud adoption across multiple teams to introduce repeatable standards
- Managed a combined spend of £1m USD in Azure
- Published Azure author

IRIDIUM CLOUD SERVICES

- Cloud Strategy review & development
- Assessment and guidance inline with the Cloud Adoption Framework
- Implement Landing Zones to speed adoption whilst ensuring security and compliance
- Cloud migration services
- Development of best practices and process automation
- Well Architected Reviews across the 5 pillars – Cost, Security, Operations, Performance & Reliability



WHERE IS YOUR ORGANISATION AT TODAY?

ZERO ADOPTION

- Data Centres contracts due for renewal
- Hardware Refresh
- Expensive tech currency programmes
- Lack of DR capability
- Lack of internal Cloud skills and capability
- Lack of understanding of current environment and how to move that to the cloud
- Inflexible infrastructure, stifling innovation
- Limited cloud strategy in place

TRANSITIONAL OPERATION

- Partially automated application deployments, focused on code rather than infrastructure
- Starting to re-architect solutions to use modern patterns and leverage cloud native components
- Some reusable patterns, not widely circulated
- Some collaboration across teams such as security, testing, engineering and IT Ops
- Lack of general consistency in design and implementation



FOUNDATIONAL IMPLEMENTATION

- Struggling with legacy integration
- Varying standards and minimal controls
- Tech driven and lacking business and ops ownership
- High subscription costs
- Lack of monitoring and reporting
- Cloud roadmap has stalled
- Cloud skills & understanding limited to specialist teams
- Low adoption

FULL CLOUD ADOPTION

- Seeking ways to optimise cost
- Increase security, compliance and operations via automation
- Large delivery road map that requires augmentation to existing skills
- Desire to innovate and use advanced cloud services such as AI, Analytics and blockchain.

HOW OUR SERVICES HELP YOU

PILLARS OF ARCHITECTURAL EXCELLENCE

OUR SERVICES

	COST	RELIABILITY	SECURITY	OPERATIONAL EFFICIENCY	PERFORMANCE
STRATEGY	<ul style="list-style-type: none"> Understand business drivers Align budget & goals 	<ul style="list-style-type: none"> Define RPO/RTO for service tiers 	<ul style="list-style-type: none"> Define high level security posture and acceptable trade offs 	<ul style="list-style-type: none"> Define deployment methodologies 	<ul style="list-style-type: none"> Define service levels
ARCHITECTURE / WELL ARCHITECTED REVIEW	<ul style="list-style-type: none"> Cloud native / serverless components 	<ul style="list-style-type: none"> Multi-zone and multi-region 	<ul style="list-style-type: none"> Layered security for protection in-depth 	<ul style="list-style-type: none"> Automated deployments 	<ul style="list-style-type: none"> Automated scaling
LANDING ZONE	<ul style="list-style-type: none"> Baseline common infrastructure 	<ul style="list-style-type: none"> Availability zones Hub spoke model 	<ul style="list-style-type: none"> Role Based Access Controls Azure Policies Azure Blueprints 	<ul style="list-style-type: none"> Automated deployments of core services & Networking 	<ul style="list-style-type: none"> Automated deployment of monitoring for performance
CCOE	<ul style="list-style-type: none"> Re-use common design patterns - quicker to design and build solutions 	<ul style="list-style-type: none"> Re-use of common patterns ensures tried and tested architectures 	<ul style="list-style-type: none"> Continuous review and maturation of security policies 	<ul style="list-style-type: none"> Continually identify & develop automation tasks 	<ul style="list-style-type: none"> Patterns that employ automatic scaling and healing
MIGRATIONS	<ul style="list-style-type: none"> Right size components Migration options (Lift & Shift/Re-architect) 	<ul style="list-style-type: none"> Placement of services Choice of VM type Monitoring & Logging 	<ul style="list-style-type: none"> Automated application of security controls through policies, RBAC and Blueprints 	<ul style="list-style-type: none"> Use automated tooling & replication 	<ul style="list-style-type: none"> Post-migration review Right-size components
MONITORING & REPORTING	<ul style="list-style-type: none"> Right-size components based on usage 	<ul style="list-style-type: none"> Alert on issues Monitor for indications of reliability issues 	<ul style="list-style-type: none"> Security alerting Security Center Sentinel 	<ul style="list-style-type: none"> Identify areas for improvement & automation 	<ul style="list-style-type: none"> Monitoring for performance issues Auto scale in response to demand

THE ENGAGEMENT PROCESS



	ASSESS	PLAN & PREPARE	ADOPT & MIGRATE	REVIEW
ACTIVITIES	<ul style="list-style-type: none"> • Strategy Review • Readiness Assessment 	<ul style="list-style-type: none"> • Architecture • Landing Zones 	<ul style="list-style-type: none"> • Well Architected Reviews • Migration Services • Cloud Center of Excellence 	<ul style="list-style-type: none"> • Cost Optimisation • Logging, Monitoring & Reporting
OUTPUTS	<ul style="list-style-type: none"> • Defined strategy that provides direction to the business 	<ul style="list-style-type: none"> • Secure, common platform ready to have workloads deployed 	<ul style="list-style-type: none"> • Successful migrations, reliable net-new applications, efficient processes & deployments 	<ul style="list-style-type: none"> • Realised cost efficiencies • robust reporting & alerting • Innovative services