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Migration Plan - Azure

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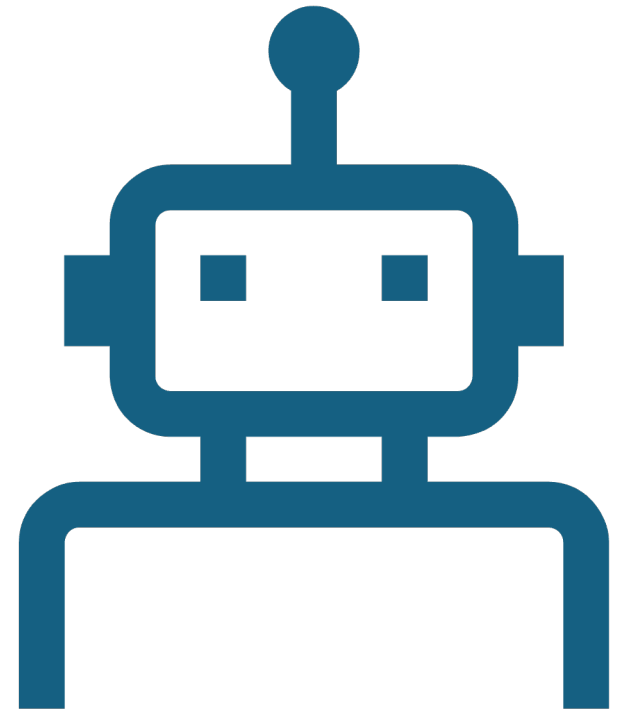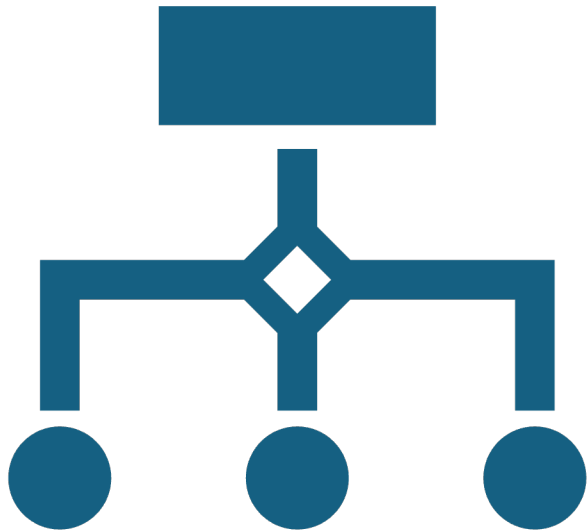Migration plan

Migration structure

Azure services

Cost estimation

Migration plan

- Three options for an application migration plan

- Rehost: lift and shift – low effort

- **Refactor: alter software code – medium effort**

- Rearchitect: rewrite software code – high upfront work but more flexibility afterwards

Migration structure

- Take Software Inventory

- Create batches for migration

- First batch: low risk systems with low or no business impact (pilot phase)

- Second batch: more advanced systems mid business impact

- Third batch mission: critical systems – high business impact and/or sensitive data

Azure services

Services	Accounting Service	BI Service	Billing Service	Budget Management Service	Campaign Management Service	CRM Service	Customer Support Service	Document Management Service	Employee Management Service	Forecasting Service	Incident Tracking Service	Internal Messaging Service	Inventory Management Service	Lead Management Service	Maintenance Management Service	Notification Service	Online Conferencing Service	Order Management Service	Payment Service	Payroll Service	Product Management Service	Project Management Service	Proposal Management Service	Real-Time Collaboration Service	Recruitment Service	Reporting Service	Shipping Management Service	System Monitoring Service	Task Management Service	User Management Service	Total général
Azure App Service	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	29
Azure Functions			1	1				1			1		1								1	1					1	1	1		10
Azure Kubernetes Service (AKS)	1		1		1	1							1		1			1			1		1	1							10
Azure Machine Learning										1																					1
Azure Media Services																	1														1
Azure Notification Hubs																1															1
Azure SignalR Service																								1							1
Azure SQL Database	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	29
Azure Synapse Analytics		1																													1
Power BI/Azure App Service		1																													1
Azure AD B2C																														1	1
Azure File Storage								1																							1
Azure Service Bus									1																						1
Azure API Management																		1													1
Azure Monitor																												1			1

Cost estimation

Service category	Service type	Description	Estimated monthly cost	Estimated upfront cost
Compute	App Service	Standard Tier; 29 S3 (4 Core(s), 7 GB RAM, 50 GB Storage) x 1 Month; Linux OS; 0 SNI SSL Connections; 0 IP SSL Connections; 29 Customised Domains; 29 Standard SLL Certificates; 29 Wildcard SSL Certificates	£6 795,33	£8 889,08
Compute	Azure Functions	Premium tier, Pay as you go, EP2: 2 Cores(s), 7 GB RAM, 250 GB Storage, 10 Pre-warmed instances, 1 Additional scaled out units	£2 979,63	£0,00
Compute	Azure Kubernetes Service (AKS)	Premium; Cluster management for 5 clusters; 10 A3 (4 vCPUs, 7 GB RAM) x 1 Month (Pay as you go), Linux; 0 managed OS disks – S4	£3 303,94	£0,00
Analytics	Azure Machine Learning	1 D2 (2 Core(s), 7 GB RAM) x 1 Month, Pay as you go	£112,47	£0,00
Media	Media Services	Streaming type; Premium streaming units tier with 1 streaming unit(s)	£111,54	£0,00
Web	Notification Hubs	Standard tier, 1 million additional pushes	£160,49	£0,00
Web	Azure SignalR Service	Standard, 1 Units x 31 Days, 1 million messages	£40,05	£0,00
Databases	Azure SQL Database	Single Database, vCore, General Purpose, Provisioned, Standard-series (Gen 5), Primary or Geo replica Disaster Recovery, Locally Redundant, 29 - 4 vCore Database(s) x 1 Month, 32 GB Storage, SQL Licence (Pay as you go), RA-GRS Back up Storage Redundancy, 0 GB Point-In-Time Restore, 0 x 5 GB Long Term Retention	£19 850,59	£0,00
Databases	Azure Synapse Analytics	Tier: Compute Optimised Gen2, Dedicated SQL Pools: DWU 500 x 1 Month, 1 TB of storage with Geo-redundant disaster recovery; UK South Region, 100 GB of data collected per day, 7 days of Hot Cache, 30 days of total retention, 7 times estimated data compression, 730 Hours of 2 x Extra Small (2 vCores) Engine Instances, 730 Hours of 2 x 1 vCore Data Management Instances	£5 751,46	£0,00

Cost estimation

Service category	Service type	Description	Estimated monthly cost	Estimated upfront cost
Analytics	Power BI Embedded	1 node(s) x 1 Month, Node type: A3, 4 Virtual Core(s), 10GB RAM, 601-1200 Peak renders/hour	£2 357,39	£0,00
Identity	Azure Active Directory B2C	Premium P1 tier: 50,001 monthly active user(s), 0 SMS/Phone Events	£0,00	£0,00
Storage	Azure Files	SSD (Premium) Tier, LRS Redundancy, 2,000 GiB Provisioned storage with 5,000 IOPS and 300 MiB/sec throughput, Pay As You Go, 2,000 GiB, 0 Additional Sync Server(s)	£523,21	£0,00
Integration	Service Bus	Standard tier: Messaging Operations: 1 Month of base charge, 0 x 1 million operations; 0 brokered connection(s); Hybrid Connections: 0 listener(s), 0 overage GB; WFC Relays: 0 x 100 relay hours, 0 x 10,000 message(s)	£7,87	£0,00
Web	API Management	Premium tier, 1 base unit x 1 Month; Self-hosted Gateways, 1 Gateways x 1 Month; 0 additional units, 1 x 1 Month x 5 overage workspaces	£2 523,91	£0,00
DevOps	Azure Monitor	Log analytics: Log Data Ingestion: 0 GB Daily Analytics logs ingested, 0 GB Daily Basic logs ingested, 1 months of Interactive Data Retention, 0 months of data archived, 0 GB data restored for 0 days, 0 Basic Log Search Queries per day with 0 GB data scanned per query, 0 GB of Log Data Exported per day, Platform Log Data Processed per day: 0 GB with Destination to Storage or Event Hub and 0 GB with Destination to Marketplace Partners, 0 Search job Queries per day with 0 GB data scanned per query; 0 SCOM MI Endpoints; Managed Prometheus: 0 AKS nodes in cluster, 10000 Prometheus metrics per node, 30 seconds of Metric collection interval, 0 Average daily Dashboards users, 7 Dashboards, 50000 Data samples queried per dashboard, 25 promql alerting rules, 25 promql recording rules; Application Insights: 3 months Data retention, 0 Multi-step Web Tests; 0 resources monitored X 1 metric time-series monitored per resource, 0 Log Alerts at 5 Minutes Frequency, 0 Additional events (in thousands), 0 Additional emails (in 100 thousands), 0 Additional push notifications (in 100 thousands), 0 Additional web hooks (in millions)	£0,00	£0,00
Support			£80,25	£0,00
Total Costs			**£44 598,16**	**£8 889,08**