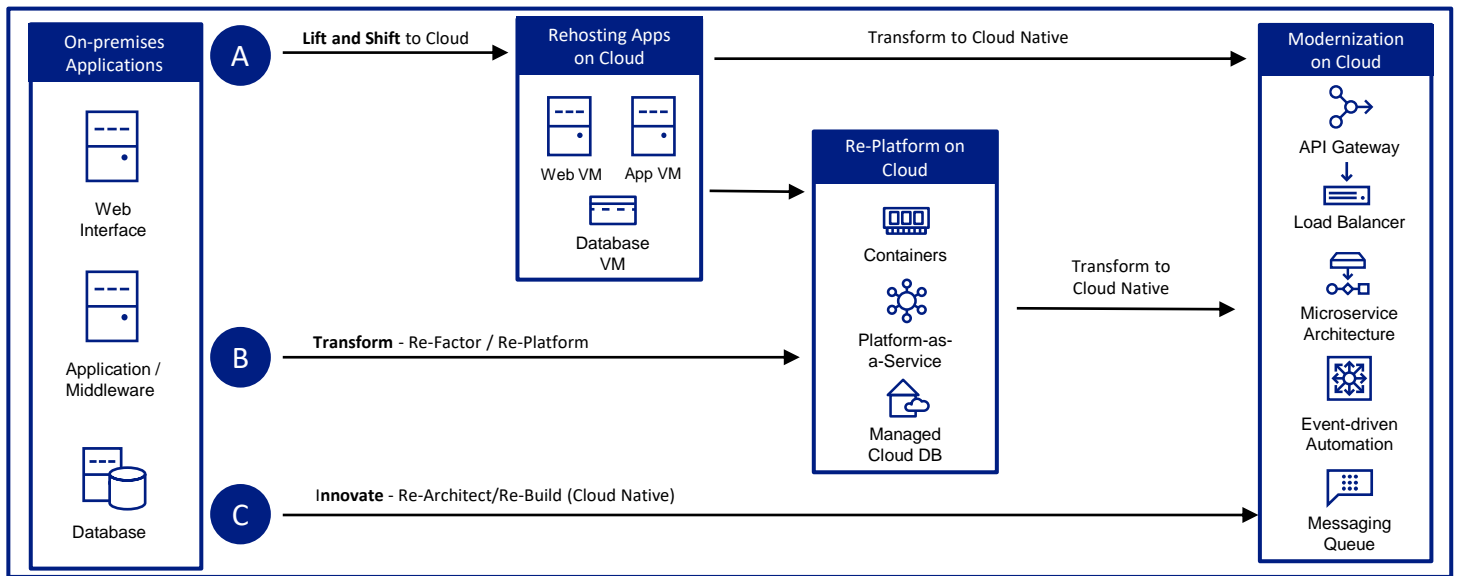# Protect your Investment and Improve Business Performance

Application Modernization on Azure

Business Outcome	Maximize ROI, Lower TCO & Drive Growth	Improve Business Performance	Enhance User Experience and Accelerate GTM
Enablers	A funded Application Modernization Assessment and Proof of Value exercise	An actionable roadmap to modernize application landscape	Digital Transformation using latest and most relevant technology stack

Application Modernization Strategies

A — **Lift & Shift**
- Migrate on-Premise hosted application to cloud "as-is"
- Transform (Re-platform / Re-Architect) on cloud as a next steps
  – Containerization, PaaS
  – Cloud Native

B — **Transform**
- Directly Re-platform using solutions like containerization, Platform-as-a-Service or using Managed Cloud services
- Innovate (Re-Architect) using Cloud Native services as a next step

C — **Innovate**
- Directly Re-Architect / Re-build, by taking full advantage of cloud-native solutions and features
- Utilize Microservices Architecture to break-down and modernize complex monolithic application stack for better performance, easier management, and dynamic scaling
- Automate application functions using event-driven triggers and queue-based message management

Benefits of Application Modernization

- Enhanced Security and Insights
- Increased Productivity - Rapid Application Development & Deployment
- Higher Performance, Reliability & Scalability
- Modular application component enabling non-disruptive enhancement and easier management
- Accelerates the release of new features
- Utilize latest technology enablers and remain relevant

Use Cases – Why?

- Security, Performance and Reliability issues
- Faster Development and GTM release
- Scalability constraints with existing applications
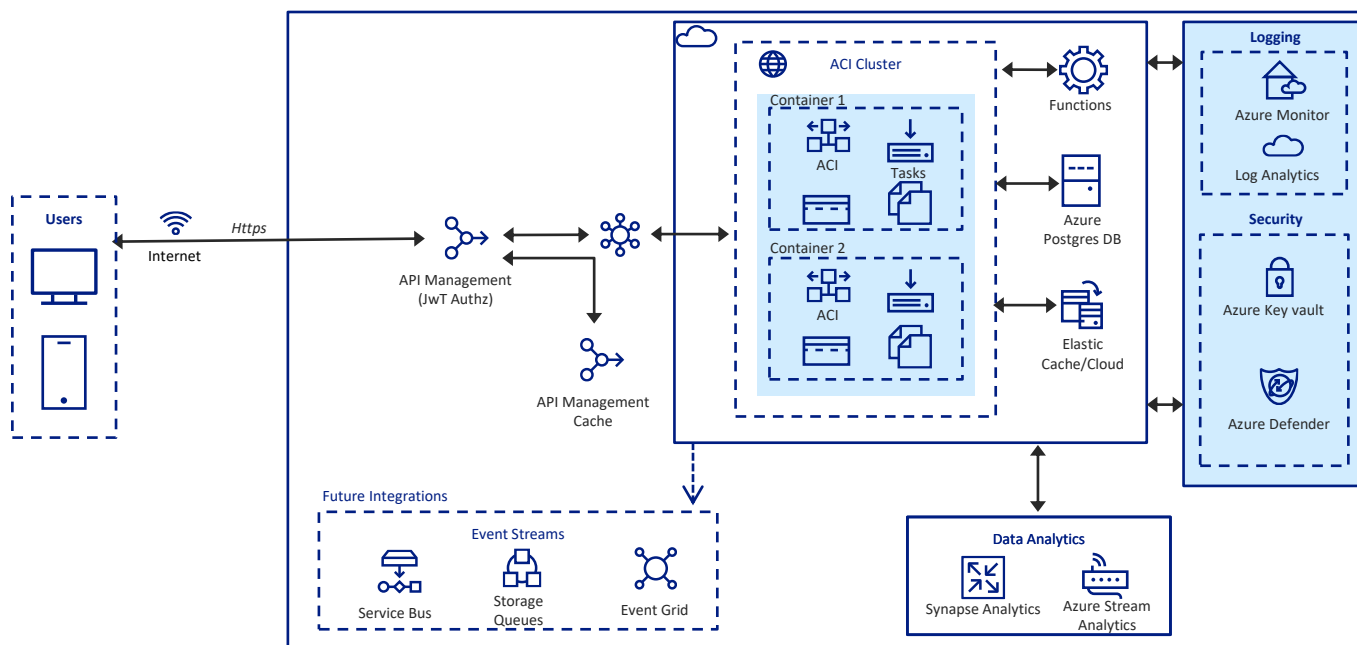- Integration with new technology stack
- High cost of application management
- Lack of operational visibility

Case Study – How and Outcome?

Customer: Global Manufacturing company
Case study: Modernized the Material Search application using the most recent tech stack. Leveraged cloud-native technologies and capabilities to transform the application using a microservices architecture.

Challenges	Solution	Benefits

• Unable to compare, search for, and recommend different Direct Materials used
• Unable to maintain base product codes of Direct Materials
• Lack of visibility over purchase data of Direct Materials
	• Containerize, the applications to improve the scalability and reliability
	• DevSecOps and shift-left approach to improve security, development time and team coordination
	• CI/CD pipeline to automate testing & deployment
	• Cloud-based monitoring and logging solutions to improve observability
	• Microservices architecture, utilizing cloud-native services
		• Enhanced material search UI
		  - Intuitive search experience to the users
		• Organization single source of truth
		  - All the applications are enabled to use unique material codes
		• Data driven insights and strategies
		  -Data on most viewed materials and most searched key terms to predict demand of the products and materials.

Application Modernization Solutions – To Leverage

📋 Micro Services Architecture   📊 DevSecOps(CI/CD) and Agile Release Cycles

📊 Serverless and Event driven Implementation   ⤢ Cloud-Native Architecture

☁ Containerization of the applications   ⚙ Infra-as-a-Code Automation

Proof of Concept – Funded

- Jumpstart your **Application modernization** journey with a **Funded Proof of Concept.**
- Choose one option - Re-platform and Re-Architect

Option 1 – Transform, by Re-Platforming

Migrate the application to cloud platform, with some component re-platforming, and without modifying the core architecture of the application

⊕ Scope?
- Transform the application from on-prem to Cloud Platform
- Prepare the manifest files
- Set up the environment and deploy the application

🛡 Deliverables
- Cloud platforms enabled for cloud-native transformation
- Fully managed platform which scales as per demand
- Infrastructure as code for cloud platforms

⏱ Duration
- ~ 2-3 Weeks

👥 Resourcing
- Project Manager
- Cloud Engineer
- Application developer

$ Pricing
- Fixed Scope & Fixed Price
- Funded PoC

Option 2 – Innovate, by Re-Architecting

Re-Architect the application using cloud-native features

⊕ Scope?
- POC of a simple application with micro services architecture
- Setup CI/CD pipeline
- Dashboard for Application monitoring (observability)

🛡 Deliverables
- Microservices for APIs
- Dashboard for Application monitoring
- Automated CI/CD pipeline for application deployment

⏱ Duration
- ~ 3-4 Weeks

👥 Resourcing
- Project Manager
- Cloud Engineer
- Application developer

$ Pricing
- Fixed Scope & Fixed Price
- Funded PoC

Ready to transform your data and get some great business insights
Contact Telstra @: TelstraEnterpriseSales@team.telstra.com

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