SINGAPORE 2020

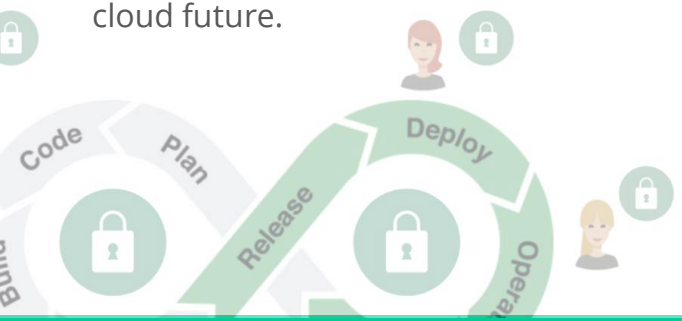
PALO IT

CLOUD NATIVE APPLICATIONS

Hello!
We are PALO IT

With a decade of experience and a unique, iterative and multidimensional approach, we are the partner of choice for holistic and sustainable cloud migrations and cloud native development.

By going beyond just 'lift and shift' to take into account application architecture and design, we supercharge our clients' migration effort to a more secure and economical cloud future.



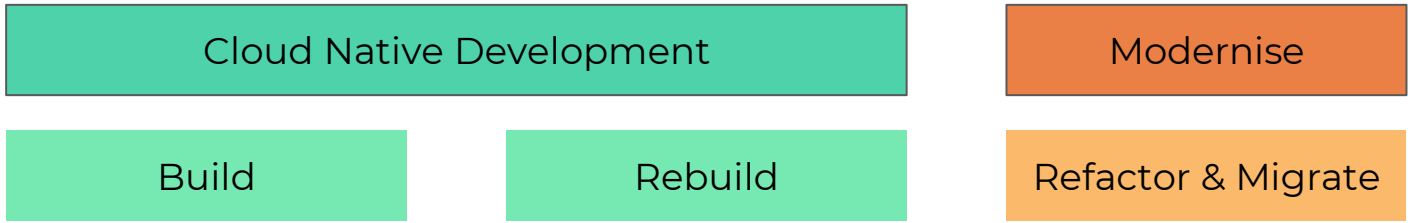
Why choose us?

- We approach cloud native as more than just development. It is also an opportunity to innovate to build the right product.
- We share our learnings and good practices to keep you on the right track, and empower you towards autonomy on this journey.
- We have extensive experience in refactoring or replatforming 'legacy' applications for private and public clouds.
- We care about development best practices, faster releases and production operations, which means that we always have a balanced approach in our solutions.

Build, Rebuild or Refactor?

Cloud platforms offer an amazing opportunity to speed up innovation by providing unparalleled agility. If you are looking to modernise your existing applications or start developing a new product, we can leverage our expertise and support you on your journey.

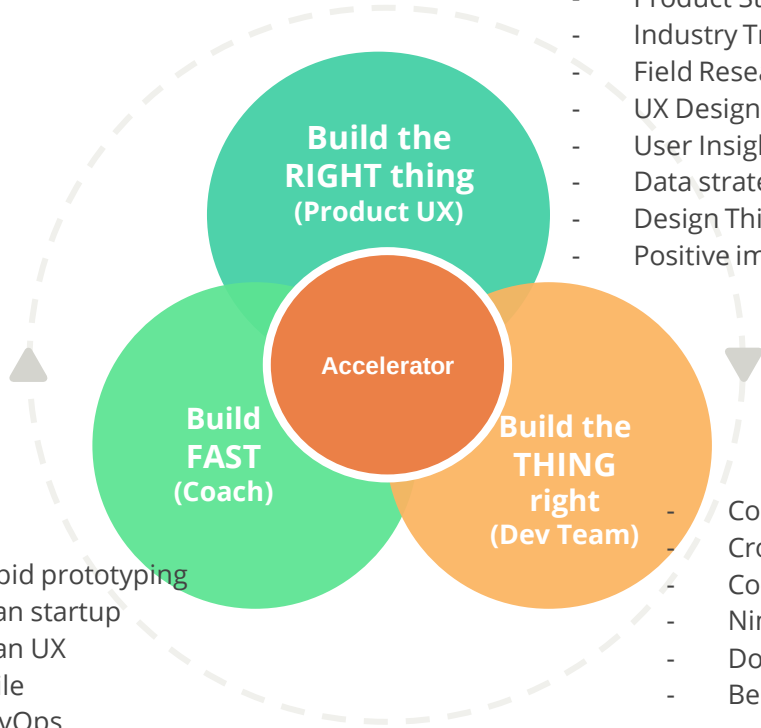
Cloud native development and migration to the cloud are the two ways in which we can support and enable you to achieve your objectives.



Cloud Native Development

We build and rebuild innovative applications that can fully leverage on cloud services.

Our product innovation offerings span across the full spectrum of services. We support from design and prototyping, through to cloud native development using Agile methodologies. We deliver with a DevSecOps mindset and capabilities and can put in place site reliability engineering practices for continuous support.



- Problem/Solution fit
- Product/Market fit
- Business Model
- Product Strategy
- Industry Trends
- Field Research
- UX Design
- User Insights
- Data strategy
- Design Thinking
- Positive impact

- Rapid prototyping
- Lean startup
- Lean UX
- Agile
- DevOps

- Collaborative
- Cross-functional
- Co-located
- Nimble
- Domain Driven Design
- Best of breed technology

Modernise Your Existing Applications

Refactor and re-platform offers a quick way to modernise applications

We bring together our development and platform expertise to architect, refactor and re-platform legacy applications so you can benefit from the advantages of DevOps and container or cloud platforms without rebuilding the application.

Identify the application migration requirements, including: Network, Compute, Storage, Security, Access, Middleware and OS.

Design Cloud Architecture and changes to Applications in scope, if required.

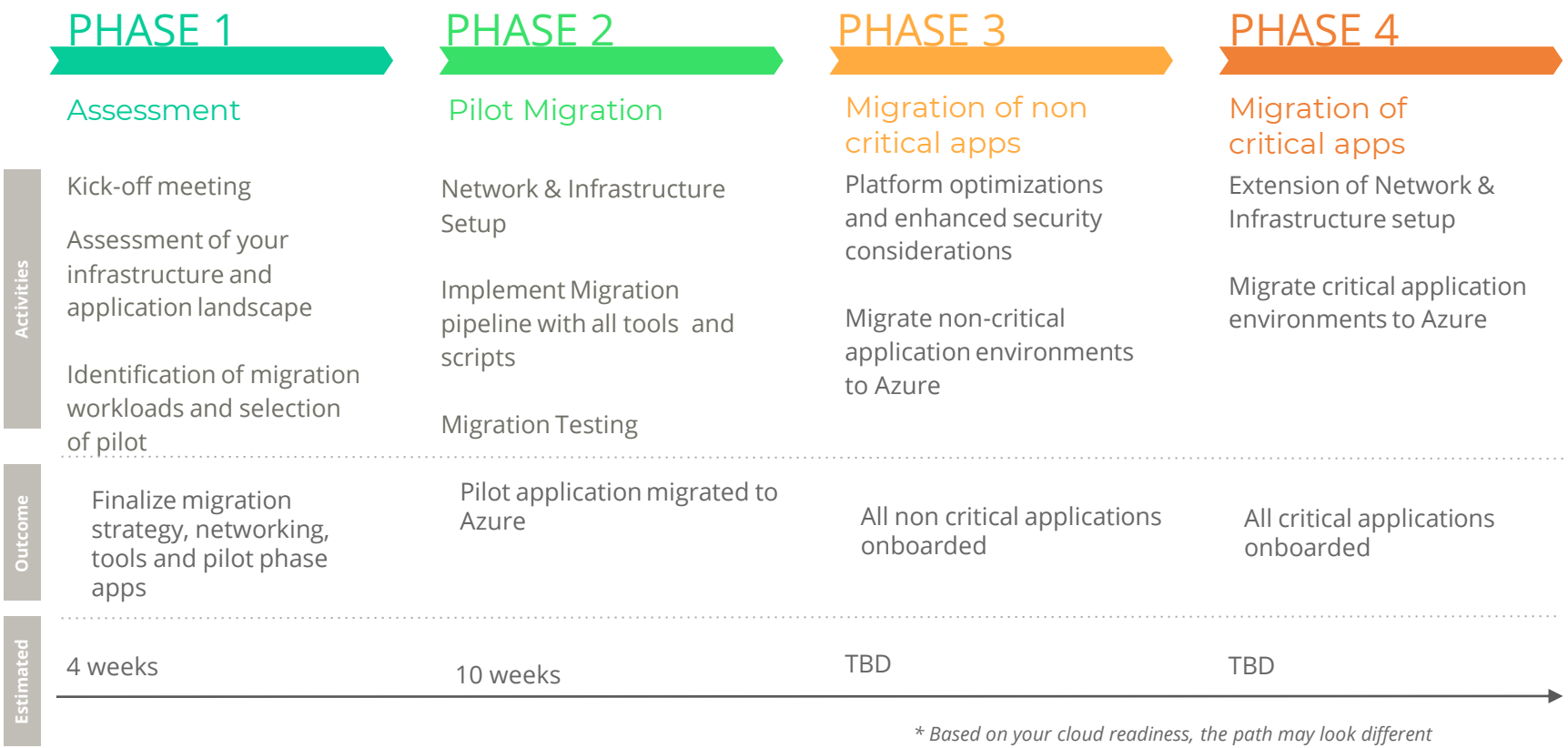
Deploy Cloud Infrastructure including: Network Storage, Compute, Security, Access Control and OS.

Application deployment and data migration.

Validation of application functionality, integration and performance.

Cloud Migration Journey

Our approach to multiple applications or organizational migration



** Based on your cloud readiness, the path may look different*

How We Build Modern Applications

Our approach to Cloud Native development in a nutshell

How we approach application security

Development team ensures security risks are eliminated, e.g. OWASP top ten. Each team has at least one security specialist developer, who focuses on this aspect

Other mandatory practices include code reviews, static code analysis, security vulnerability assessments, dynamic testing, data encryption at rest and in transit

Penetration tests are conducted at regular intervals to identify any potential risks

Development Practices

We use Scrum and sometimes borrow practices from Lean, Kanban and XP

Coding standards and design patterns are discussed upfront

We test first. We follow TDD and ATDD

Cloud Native Platforms

We tend to use a combination of containers and serverless (functions) to build enterprise applications

Kubernetes is a popular choice for container orchestration, e.g. Azure Kubernetes Service or Container Instances

Other managed services, e.g. Kafka, Firewalls are used when needed

How we build Microservices

We develop applications as microservices, Each service delivers a single functionality

Developers follow the twelve factors to ensure each service is portable, scalable and suitable for automation for CI/CD

Event-driven architecture (wherever applicable) and patterns like circuit breaker to ensure resilient and efficient applications

Data is stored in distributed, low latency and high availability services provided by the cloud provider, e.g. Cosmos DB

Infrastructure as code

Provisioning is automated generally using platform-agnostic tools e.g. Terraform

CI/CD as an enabler for innovation

Automated build, review, test and deploy increase the speed of innovation and improve the quality of code and operations

Canary or Blue-Green deployments help with rolling out changes incrementally and without any disruption

Monitoring: Logs, Metrics & Traces

We ensure each service is observable by design and logs, metrics and traces are captured