

NAVIGATE YOUR NEXT



INDUSTRIALIZING AZURE CLOUD NATIVE DEVELOPMENT

Enable Agile Digital at Scale and Speed



Cloud Native Challenges and Voice of the Customer

Shortage of the right talent

“Lots of ways to do it wrong!”

“We ended up replicating an on premise architecture on cloud”

“Migrated to cloud but still unable to perform parallel and multiple releases per week”

65% report lack of talent holding their organization back

35% believe their country's work visa legislation is holding their organization back

46% use outsourcing to access skills. Cost savings is a lower priority

Lack of holistic approach

“I think one of the biggest challenges that people have had was trying to move to a faster velocity in terms of a feature delivery or a new application development, but not thinking holistically across the organization”

78% of CIOs believe their digital strategy is only moderately effective, or worse

32% of organizations have a digital strategy (down from the last year, suggesting IT leaders are re-thinking their approach)

Most digital investment is focused on 'front-end' **rather than deeper organization activities**

Need for industrializing Cloud native development

Cloud Native Runtime

CaaS, Serverless, PaaS,
Monitoring & Alerts, Log
Analytics, Distributed
Tracing, IAM



DevOps Enabled

CICD, Branching &
Merging,
Automated testing &
coverage,
Blue/green deployment



Cloud Native Engineering



Flawless, Nimble and
automated **Environment
Management Cycles**

Agile Practices

Epics/feature
grooming, PI
planning, MVP
Releases, Team
KPIs



**Microservice
and Containers**
are the core



Driven by
**Twelve-Factor App
Principles**



Challenges

- Time consuming realization
- Highly dependent on niche skillsets
- Long and iterative process for fine-tuning the agile delivery model
- Re-skilling to familiarize with cloud native services
- Technology focused automation often misses the holistic business KPIs

Resulting in...

- Sub-optimal release processes that don't meet the availability and time-to-market needs
- Slower innovation even with cloud migration
- Unrealized potential of cloud adoption

Our Industrialization Approach using 'Assembly Line'

API and μ Service Assembly Line



Flexible Line Design (*Rollout different cars through the same line*)



Dynamic Demand Servicing (*Scale up and down the ppl a.k.a squads on the line*)



Commoditize the skills of people working on the line (*remember not every one building a car need to design one!*)



Deep visibility of the operations on the line (*material availability, team performance, quality etc.*)



Hyper assistance (*robots to automate/heavy lift items on the line*)



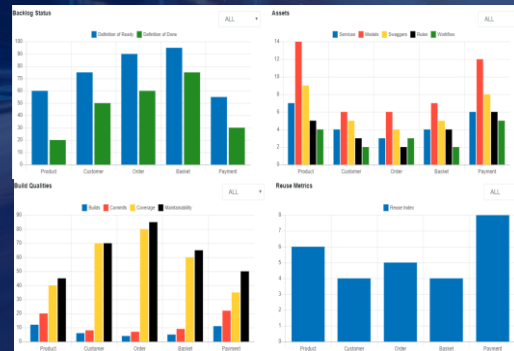
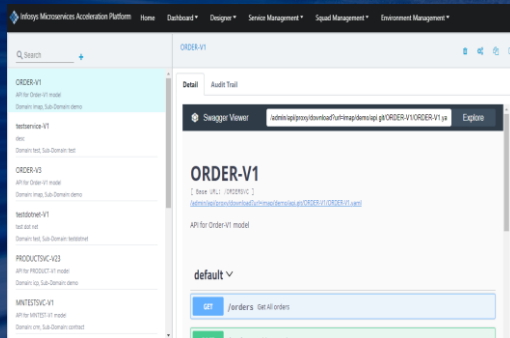
Fail proof production (*assembly line has quality checks to catch errors soon*)

An Assembly Line delivered through lego blocks...

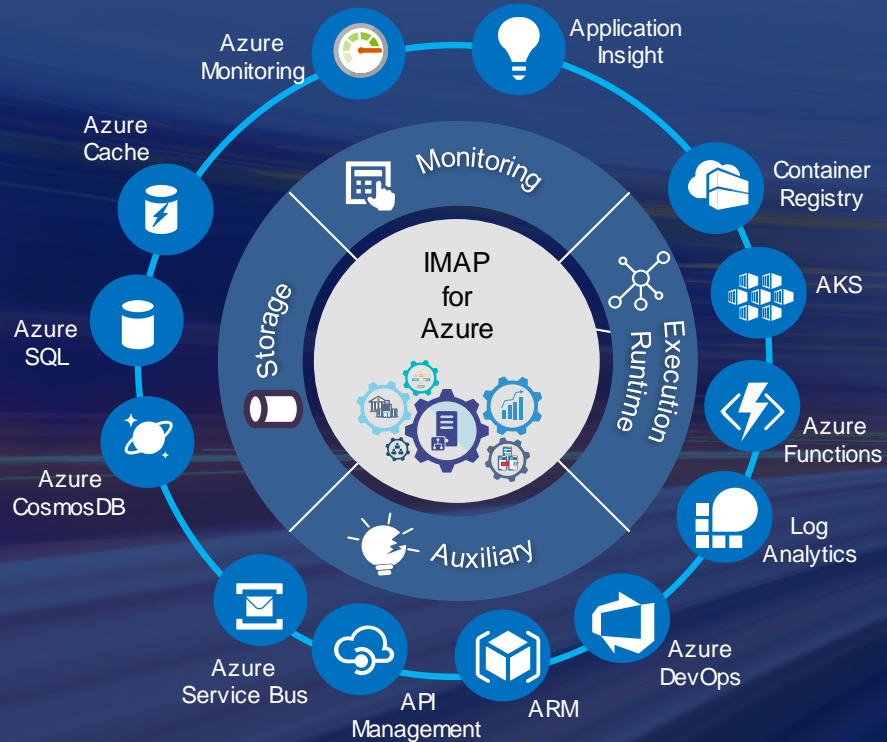
Infosys Microservice Acceleration Platform (IMAP)

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* A set of 'lego' blocks that help quickly build a 'make-to-order' microservice & API development platform



IMAP for Azure – ‘Assembly Line’ for Industrializing Azure CDN



Production ready frameworks for Microservice and API

Support for multiple language packs

Seamless integrated PaaS components within Azure

Pre-integrated CI/CD tooling with code quality metrics

12 Factors App driven development

Capability to launch environments on demand

Hyper-agility with developer and release self-service

THANK YOU