Accelerating Cloud Capability Case Study



The Challenge

Seeking innovation and agility, a bluechip Perth resources company launched a 'cloud native' digital transformation.

Cloud native applications and infrastructure are designed from the ground up to take full advantage of the scalability and flexibility of the cloud. Cloud native slashes operating costs, speeds up delivery and frees up developer time for more value adding tasks.

However, building cloud native systems is hard.

Scaling this across an enterprise is harder still.

How do you enable different teams, at different levels of maturity, to innovate in the cloud?

How do you keep data and systems secure?

How do you onboard new teams quickly and make them productive?



The Solution

Mechanical Rock deployed our Cloud Native Factory (CNF) to allow autonomous agile teams to easily build secure, reliable cloud native applications.

The CNF encourages teams to leverage common architectural patterns.

Patterns in a master portfolio are distributed to separate accounts – making workloads portable and limiting blast radius.

Pattern development is democratised: teams that develop new patterns share them back to the master portfolio for use by the wider group – avoiding the bottleneck of a centralised platform team.

This encourages teams to experiment with new services, protected by strong guardrails which limit the risk and costs involved.

The Cloud Native Factory means:



Teams can setup within 2 hours.



Shared patterns encourage collaboration and reusability.



DevSecOps tooling makes security proactive, not reactive.



Zero to a working application in one day, including infrastructure.

The Solution



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The Cloud Native Factory allows development teams to spin up fully integrated development and production environments for specific products at the click of a button.

All environments are protected by automated guardrails and feature automated compliance reporting.

Scale and Compliance

Enterprise DevOps at Scale

The Cloud Native Factory enables developers to build applications that are secure and scalable. Approved patterns and automated pipelines enable developers to easily provision new development environments – which makes it easy for teams to rapidly and repeatedly deliver value.

Secure-By-Design

Using a 'secure-by-design' approach, best-of-breed practices are built into patterns which are immediately available to all teams. Launch constraints allow users to provision resources, but only in approved configurations. Within these guardrails developers are free to innovate with new services and new technologies.

Single-Pane-Of-Glass Compliance

Products published to the master portfolio must include a suite of compliance tests. This "compliance-as-code" approach means tests are run every time a change is made to a workload, providing a single view of compliance across all CNF workloads.

Workloads by Type



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Conclusion

Adoption has scaled from a single team to 20 teams running 800 cloud products.

More than 37,000 developer hours have been saved.

700 service tickets were eliminated though self service.

Estimated 30,000 development hours of delay eliminated as teams no longer wait for services to be provisioned.

Many teams have been able to move from monthly change cycles to multiple deployments per day.

Dozens of security risks have been identified and removed across the enterprise by applying standard compliance patterns to existing cloud workloads.

The Cloud Native Factory allowed our client to move to higher levels of cloud capability, quickly & safely.



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Want to scale up your cloud maturity?

Get in touch so we can chat about your plans over a coffee

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