



CITIC PACIFIC MINING, headquartered in Perth, Western Australia, is part of CITIC LTD, the largest diversified conglomerate in China. It established and now runs Sino Iron, a massive mining, processing and port operation in the Pilbara that annually produces up to 24 million tonnes of high grade magnetite iron ore concentrate. CPM has accelerated the adoption of cloud computing, using estrat and AWS, to enable real-time insights into critical data while providing a secure and cost-effective approach to application hosting.

VISION

CITIC Pacific Mining (CPM) is at an exciting stage of its development as a mining powerhouse. Sino Iron is its largest investment and a big step forward in the rapidly-developing socio-economic relationship between Australia and China.

One of the company's priorities is to explore the many opportunities created by emerging technologies. To do this it urgently needs a modern and flexible environment in which the IT team, and its customers, can safely experiment with innovative ideas and release them rapidly into the business. A key part of such an environment is a secure, cost-efficient cloud platform.

The strategy for the creation of CPM's cloud platform was shaped by the need to consolidate its data centres and support the take-up of agile consumption-based services, and accelerated by the urgent requirement to replace the legacy disaster recovery (DR) site. It had to take account of the many tactical challenges confronting the solution, while establishing a strong strategic base for future growth.

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This was a challenging brief but estrat's reputation for delivering the goods is well established in the industry, so we were confident they could give us all the benefits that the AWS service stack promised.

RAY ACHEMEDEI
GENERAL MANAGER, DIGITAL
TECHNOLOGY & INNOVATION, CPM

With both a great platform in AWS and excellent support partners in estrat, we were able to move quickly when the opportunity presented itself to inject a major step change in our infrastructure environment.

MARK O'BRIEN
MANAGER, DIGITAL
TRANSFORMATION, CPM

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CONSULT



IMPLEMENT



MANAGE



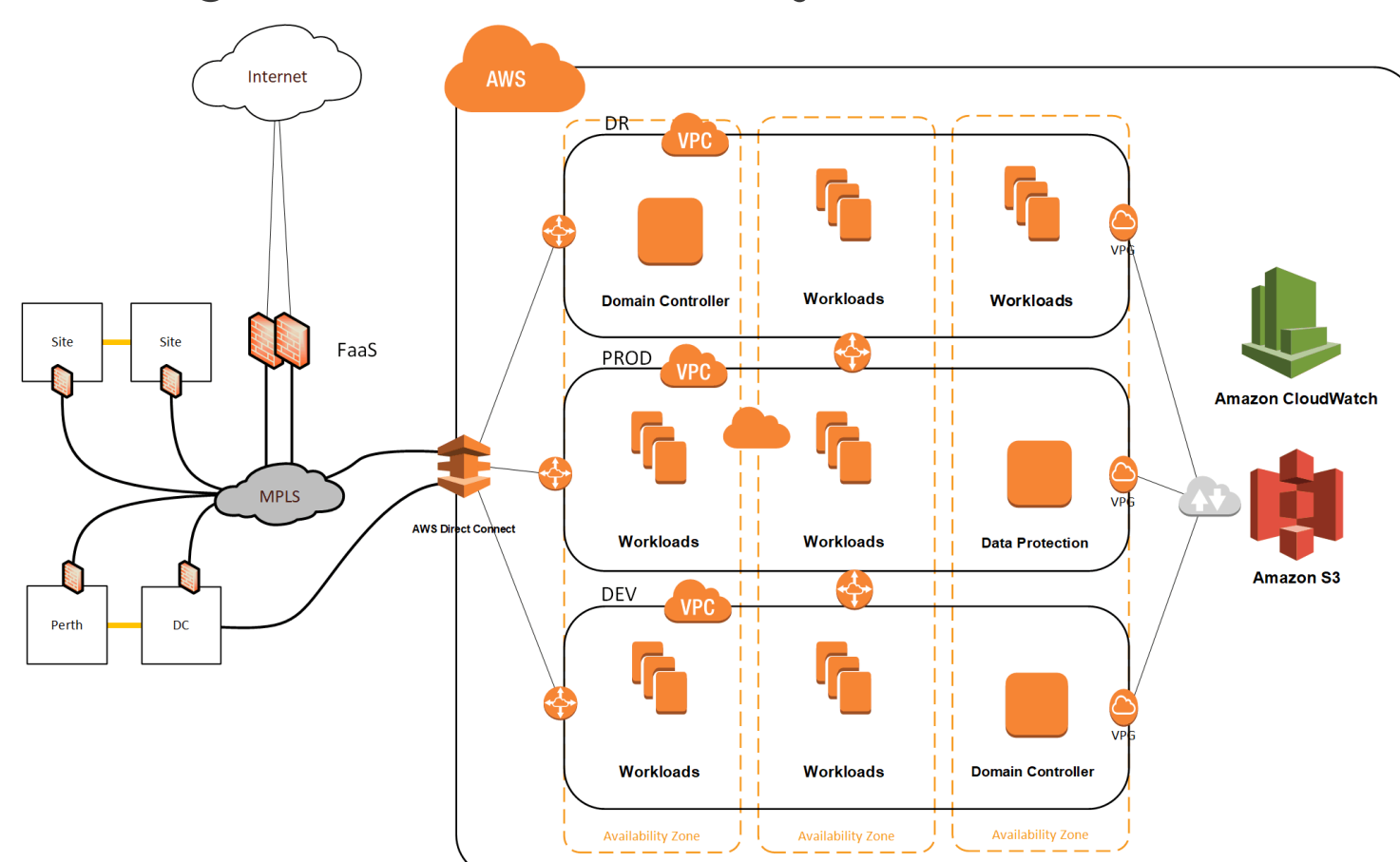
CLOUD

To implement the strategy, CPM activated the cloud adoption roadmap which estrat had developed for it earlier. Stringent compliance and security requirements underpinned the design and solution choices, as did the need to meet demanding agility, cost, performance and technical-fit goals.

The new platform was delivered by estrat as a turn-key project. Rapid execution allowed CPM to address the imperative of moving its development and DR workloads while simultaneously acquiring a completely transformational capability to deliver data analytics in ways that would previously have been too costly and time consuming.

estrat worked with CPM's IT team and Amazon Web Services (AWS) to architect a cloud-centric platform that would meet all the fundamental requirements for security, agility, value and longevity. This included the complete redesign of the wide area network, perimeter security, telephony, email, application hosting and DR services. Careful planning and scheduling ensured that each of these was transformed or migrated successfully to meet the timeframes while minimising risk and disruption to the business.

AWS's Virtual Private Cloud (VPC), DirectConnect and Elastic Cloud Compute (EC2) services form the core of the new environment. Together they host more than 85 DR, development and production workloads. Other AWS components include CloudWatch for monitoring and management, and Simple Cloud Storage Service (S3) for the retirement of thousands of legacy tapes. A simple but effective DR solution was built using CloudEndure, which works harmoniously with the pre-existing NetBackup data protection technology. Data analytics and Internet of Things (IoT) capability was added almost instantaneously using AWS Kinesis, Cognito and API Gateway services.



RESULTS

CPM has been able to retire significant portions of its legacy infrastructure, reducing complexity and cost. It has streamlined its back-office processes associated with data protection and DR, which in turn has freed up its people to focus on customer-facing initiatives.

Designed with the future in mind, the new platform enables a strategic approach to infrastructure and applications delivery that is completely aligned with CPM's business strategy of unlocking the full value of its broader investment. It is now positioned as favourably as any of its peers – if not more so – to capitalise on a broad array of technological innovations and reap the cost and agility benefits of moving to the cloud.

Ray Achemedei concluded by saying:

“We’ve found a secure and truly agile platform that supports our ability to experiment, innovate and iteratively deliver value to our business. At the same time, by leveraging AWS’s service stack and estrat’s industry knowledge and delivery expertise, we can keep a keen eye on security, performance and cost.”

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