

AWS Migration Reference

	Completed
AWS Customer name	thinkmoney
APN Partner name	Infinity Works

What was the challenge?

thinkmoney needed to migrate away from their existing UK data centre to new cloud infrastructure by a specific date, but didn't want to stop delivering new features to customers and improvements to processes during this migration.

How was AWS leveraged?

High-level details

thinkmoney engaged Infinity Works to assist with their cloud migration project, using AWS best practice project structure of Assessment, Mobilisation, Migration and Modernisation.

Technical details

AWS Control Tower was used to rapidly create a "landing zone" - a set of AWS accounts configured according to AWS best practices.

AWS Transit Gateway, coupled with AWS Site-to-Site VPNs, enabled thinkmoney to extend their WAN into the new AWS infrastructure. A Terraform project automates infrastructure resources and provides a repeatable method of deployment and change control.

AWS SSO was used to control access to the multiple AWS accounts, to ensure that least privilege access was provided to administrative and operational teams.

AWS CodeDeploy, AWS CodeBuild and AWS CodeCommit were used to create CI/CD pipelines that allowed for automated deployments of software and infrastructure, reducing administrative overhead.

CloudFront and AWS S3 were used to migrate the thinkmoney.co.uk website to AWS from an existing Wordpress platform to a JAMStack application using a headless CMS. This provided a highly scalable solution at low cost.

AWS VPC was used to lay out network segments, and configure Security Groups to provide stateful firewall configurations for complex banking applications. AWS SSM was used to create system images according to thinkmoney's security requirements; these were then deployed as EC2 instances within the VPCs.

AWS EC2 was used to provide compute, making use of AWS Nitro System capable instances that offload network IO and security operations to custom hardware.

thinkmoney also wanted to migrate their customer contact centre system at the same time. Amazon Connect was assessed as a potential solution. A proof-of-concept demonstrated that it could meet requirements, and a migration executed, involving the creation of multiple AWS Lambda functions to enable IVR call flows to be recreated in the new Amazon Connect solution.

Outcomes

thinkmoney was able to migrate workloads early and take advantage of AWS managed services to reduce management overhead.

thinkmoney's complex regulatory and security requirements were met by the use of advanced AWS networking technology including the use of Nitro System instances and AWS [security tools](#).

Infrastructure-as-code was used throughout the migration to deliver infrastructure. This enables thinkmoney to benefit from automated and repeatable processes, reducing the risk of change, and providing improved audit capabilities.