

SS&C Blue Prism - An Ubertas Consulting AWS Migration Case Study

The Challenge

Blue Prism provides both on-premises and Microsoft Azure Cloud-based solutions to meet their clients' stringent compliance requirements. The organisation wants to be able to innovate faster and utilise services that complement and enable the core vision of the solutions it can provide to its client base.

To enable the platform to grow and be modernized from the outset Blue Prism focused on modern, Cloud native processes and technologies to ensure robust and repeatable deployment patterns and consistent quality of deployment, whilst enabling them to operate with minimum platform operating overhead.

As part of the brief, all aspects of both the AWS Cloud environment and the way in which Blue Prism operations teams deployed the platform were considered. This brought into focus a range of Cloud native concepts, technologies, and services available on the platform.

The AWS Well-Architected Framework was prominent in the engagement. The framework offers practical guidance around cost-optimisation in the Cloud; and Ubertas Consulting, as a member of the Well-Architected Framework Program, were able to ensure that the platform aligned to AWS best practice.

The Solution

The solution utilises AWS native tools and services to provide an architecture which can be used to manage and configure the various customer environments in a fast and fully automated way. Blue Prism and Ubertas Consulting worked together to enhance the way in which the platform was deployed, maintained, and optimised from a cost perspective.

The project was underpinned by the AWS Migration Acceleration Program (MAP), a proven methodology for Cloud adoption, supplemented with AWS funding and discount initiatives.

The project delivered the end- to-end build of an AWS best-practice platform to host SS&C Blue Prism Intelligent Automation (IA) services, along with transfer knowledge to the Blue Prism team. Key solution components are:

- **Infrastructure as Code:** Terraform was used to script and automate the deployment of the environment. Applying modern infrastructure as code methods both assists with inventory management of the solution and importantly ensures consistency of deployment where platform changes are required.
- **Landing Zone & Account Factory:** An Account Factory with customizations for AWS Control Tower combined AWS Control Tower and other highly available, trusted AWS services to help Blue Prism more quickly set up a secure, multi-account AWS environment using AWS best practices including Security governance and compliance frameworks such as NIST and CIS.
- **Secure Operating Procedures:** A review of Cloud operations resulted in greater use of AWS Systems Manager. In addition to more common services such as automated patching, Blue Prism implemented the use of Session Manager into their day-to-day operations to enhance security around maintenance-level access to the platform.
- **Platform Right-Sizing:** By combining the skills of both development and operations personnel, Blue Prism was able to establish a practice for routinely reviewing the sizing requirements of the solution to ensure alignment to customers' individual environments. This means that AWS EC2 and RDS elements of the Cloud solution operate effectively, delivering resilient and highly available resources without incurring unnecessary cost.



About SS&C Blue Prism

Blue Prism is a global pioneer in intelligent enterprise automation, improving how employees work. Blue Prism helps organizations enhance operational efficiency and agility by making it simple for individuals to automate tasks.

Blue Prism is part of the SS&C group of businesses.

The Benefits

The successful delivery of the end-to-end project delivered a number of technical and business benefits to Blue Prism:

- DevOps practices underpinned by the AWS Well-Architected Framework have ensured that Blue Prism is aligned to best practice in the various facets of Cloud deployment including security, performance, and resiliency of the platform. Importantly, by aligning to the AWS principles of operational excellence, Blue Prism is guided by sound DevOps practices, working with both native AWS and third-party tooling.
- Using guidance from the Well-Architected Framework Blue Prism were able to implement new ways of working and align the best practice principles of “operational excellence”. Monitoring services implemented through AWS CloudWatch constantly provides the operations teams with the data to ensure that the platform is performant and meeting the demanding requirements of its platform and customer use.
- Successful knowledge transfer and training activity significantly improve the skill-sets of the Blue Prism technical team.

Migrate to AWS with confidence

The AWS Migration Acceleration Program (MAP) provides a clear roadmap to migrate and modernise workloads to operate in the Cloud. Ubertas Consulting provides a free-of-charge Migration Discovery solution which builds out migration options for an organisation.

Ubertas Consulting provides a migration assessment for an organisation at no cost, so they are able to understand how AWS can support their migration journey and eligibility for the AWS Migration Acceleration Program.

The Migration Discovery looks at your current state, defines the future target state, and plans the path to make full use of the AWS Migration Acceleration Program; 100% funded by Ubertas Consulting.

Why Ubertas Consulting

Ubertas Consulting is a Cloud consultancy specializing in Amazon Web Services. As an Advanced Focus Partner, AWS Migration Partner, AWS Channel Reseller (Solution Provider Program) and Well-Architected Framework Program Partner our mission is to transform the way organisations modernise using AWS. We assist companies drive innovation and build new capabilities through embracing “Cloud Native” technologies and modernising with Amazon Web Services (AWS).

To find out more about how Ubertas Consulting can help you take your next steps to migrating to AWS with confidence visit us at www.ubertasconsulting.com or contact us at info@ubertasconsulting.com.

We're here to help.

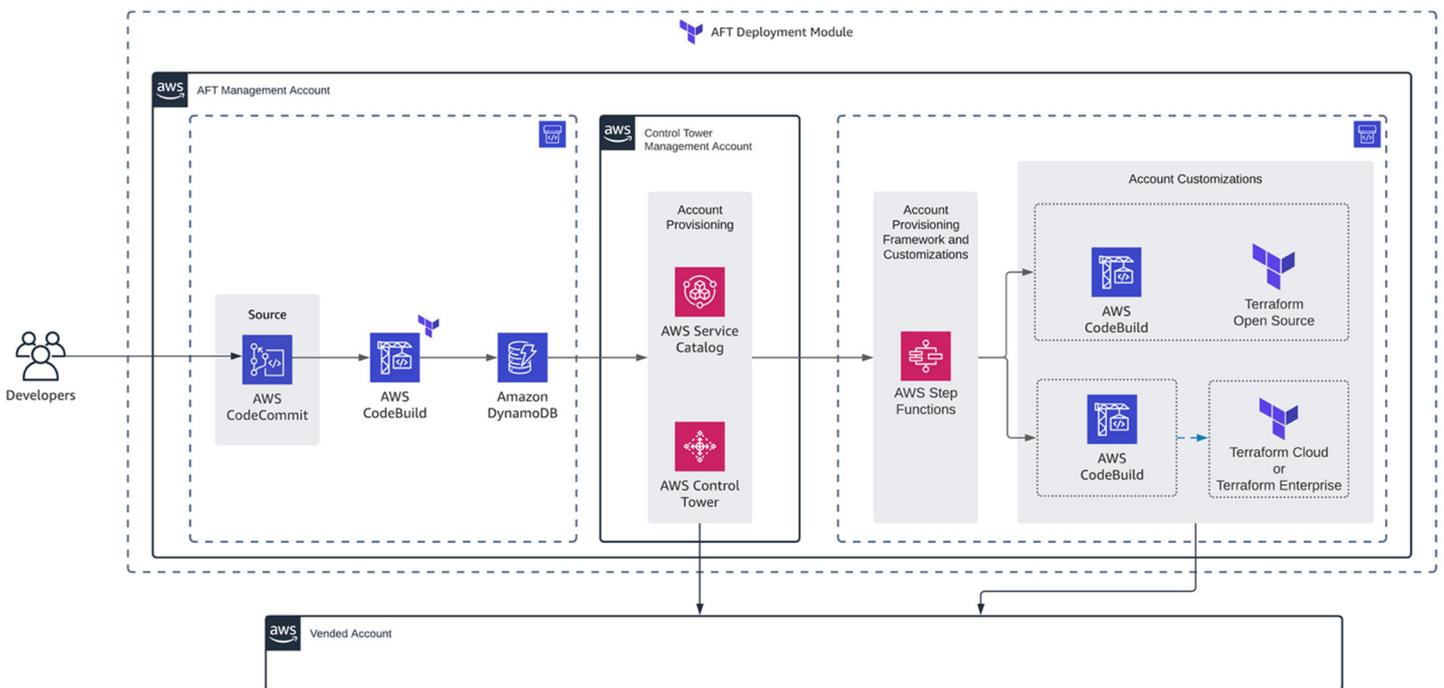
Technical Data Sheet (Internal Use Only)

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Cloud Architecture

The multiple customer Windows-based workloads went through a right-sizing exercise and ultimately lift and shifted over to AWS EC2 Instances within a highly available, and fault tolerant design. Following best practices, database servers were able moved over to AWS-managed RDS in order to reduce the management overhead that Start Software would be taking on post-migration. High availability was achieved by ensuring that the VPC subnets which hosted the workloads were spread over three (3) availability zones across the London region. Additional management overhead was able to be avoided by using the Backup service to perform flexible, customer- specific backup plans and retention periods. Internal access to the customer workload was also achieved by using the Session Manager feature of Systems Manager to provide convenient yet secure access when it's needed.

[AWS Control Tower Account Factory for Terraform \(AFT\)](#), was used to provision and customize AWS accounts for customer platform workloads through Terraform using a deployment pipeline.



AWS Services

Product Area	Service
Compute & Database	Amazon EC2 Amazon RDS
Storage	Amazon Elastic Block Store (EBS) Amazon Simple Storage Service (Amazon S3) AWS Back-Up
Management & Governance	Amazon Cloudwatch AWS Security Hub AWS Organisations AWS CloudTrail
Networking & Content Delivery	Amazon VPC Elastic Load Balancing (ELB) AWS Route53 AWS Site to Site VPN
Security Identity & Compliance	AWS Identity and Access Management (IAM) AWS SSO AWS Systems Manager

Third Party Tooling

Provider	Service
HashiCorp	Terraform, Account Factory for Terraform (AFT)
Microsoft	Azure DevOps, PowerShell
DataDog	

AWS Well Architected

Pillar	Use Case	Overview
Operations	Terraform Systems Manager	Automated deployment
Security	AWS SSO	Securing environment with MFA and AzureAD Integration.
Reliability	AWS RDS	Database operations and resiliency
Cost	AWS Organizations AWS Budgets	Separation of accounts to make analysing the AWS spend simpler, whilst continuing to benefit from volume-level discounts.
Performance	EC2	EC2 sizing aligned to customer workloads