AVEVA's automated CI/CD pipeline delivers innovative SaaS applications

New to SaaS and AWS, the development team learns to deliver on time and within budget while building capabilities and knowledge

Customer challenge

AVEVA builds world-class engineering and design applications to support several industry verticals, including oil and gas, utilities, and marine companies

In response to increasing market pressure to provide better digital experiences for its customers, the UK-based global IT consulting company diversified its offerings with software as a service (SaaS) solutions. As part of the SaaS program, many of AVEVA's applications were deployed to AWS cloud.

Recognizing the need to accelerate delivery and provide expertise in continuous delivery and AWS infrastructure architecture, the AWS Professional Services team partnered with Contino, a Cognizant company, as a trusted Enterprise DevOps partner. Our role was to ensure that AVEVA started with best practices to enable successful delivery on time and within budget while building capabilities and knowledge within the AVEVA development team.

AWS + Cognizant solution

Our team used a dual delivery and upskilling approach that helped the client deliver the strategic project.

With a focus on skills transfer and improving AVEVA's DevOps capabilities, the team assisted with building the foundations for a continuous delivery pipeline and improved automated deployment mechanisms. We also assisted with automating the creation of configuration-managed Amazon Machine Images.

We provided architectural oversight and guidance for the agile development of the cloud platform, governance and advice on DevOps and AWS security best practices to ensure AWS best practices were applied.

Additionally, the team provided knowledge and experience with serverless architecture, design and implementation using AWS-native resources, including AWS Lambda with JavaScript, DynamoDB, API Gateway, SNS, SQS, CloudFormation and CloudFront. Our experience also contributed to the development of AVEVA's cloud platform, which is based on serverless architectures with AWS Lambda.

Our team coached and upskilled AVEVA staff to understand each delivered work package so it can be reused with other teams. Filmed lunch-and-learn sessions were socialized within AVEVA, focusing on new technologies like HashiCorp Consul and Vault

The results

Ready for the SaaS future

AVEVA's core development teams have a deeper understanding of microservices, continuous integration and continuous delivery (CI/CD), and the AWS platform. Now, AVEVA is better equipped to bridge gaps between development and operations—and to accelerate the future innovation of its applications and innovation platforms.

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