Cloud Native Development (CND)

ONICA
a rackspace company

Nearly 30% of all software projects fail to launch, and many more require 2x the time and money expected to deploy. We won't let this happen. At Onica, you'll tap into a decade of experience successfully deploying custom applications on AWS — the best platform for SaaS. We'll help you re-engineer your applications using a cloud-native approach, focusing on improving performance, availability and scalability while using automation techniques to ensure easy, reliable and repeatable deployments.

Onica's CND team is comprised of engineers focused on building cloud native applications that take advantage of advanced AWS services such as serverless computing and containers. We don't just deliver lines of code. We partner with you on every stage of the product lifecycle, from concept to QA to production. Post launch, we'll manage your cloud needs and grow along with your application and business.

What you get with Onica's CND Team

Integrated UX + Dev + Ops

Enjoy the advantages of Onica's unique interdisciplinary process combining UI/UX design, custom software development, and a DevOps approach to cloud architecture and management.

Custom Software Specialists

Our experienced developers, create customized solutions built to ensure that your applications are optimized for the cloud. We call this Cloud Native Development.

100% Locally-Made

Our entire team works under one roof, maximizing collaboration, communication, and resources, while reducing timezone challenges. We don't use sub-contractors, ensuring quality control and on-time deliverables.

Compliance Know-How

Deliver on performance and security while meeting strict compliance in regulated markets. Medical device manufacturers and SaaS vendors with numerous regulatory requirements rely on us every day to meet their needs.

Agile Approach

Our inherently agile approach allows for careful control over project activities and deliverables, while leaving room to adapt quickly to new challenges. By embracing a culture of experimentation, learning and iteration, our team builds better products faster.

Onica´s Serverless Framework Kickstarter

PART 1	On Site Workshop (1 Day)

- ✓ AWS Basics boot camp: networking, database, infrastructure, compute & analytics
- ✓ Serverless Concepts: FaaS, cost management, auto-scaling, high-availability & durability
- ✓ AWS Serverless Offerings: AWS Lambda, Amazon DynamoDB, Amazon API Gateway, Amazon Kinesis, AWS IoT, AWS Fargate

PART 2	Identify Technology & Design Cloud Development Framework (2 Days)

- ✓ Discovery sessions: identify current technical challenges, development processes, and team skillsets
- ✓ Roadmap: discuss product roadmap and brainstorm how Cloud Native Development processes and tools can help
- ✓ Framework: design a customized framework to accelerate adoption of Cloud Native Development by your technical teams

PART 3	Build Cloud Development Framework (1 Week)

- ✓ Build the scaffolding for the application, utilizing appropriate automation tools to ensure developers are productive
- ✓ Build vertical slices of functionality, such as authentication, RESTful APIs, persistence, to demonstrate proper use of AWS services
- ✓ Create a CI/CD pipeline to ensure that code is tested and promoted throughout the dev, QA and production environments

Customer Success: Alistair Group

Alistair Group is an East Africa based logistics company that helps customers move 650,000 tons of cargo per year across 14 countries. As their operation expanded, they quickly outgrew their existing tools and needed a solution to help manage their group of contractors, drivers, trucks, trailers, and load assignments. Onica worked alongside the team at Alistair Group to help build a proprietary serverless application on AWS to manage their subcontractor fleet of hundreds of trucks and drivers as they delivered cargo to their customers. The introduction of a new application drastically streamlined and automated their operations process as truck drivers were able to receive assignments, report and monitor progress, and automatically report driver performance metrics on the go.

Onica's Cloud Native Development model kept costs low as Alistair Group scaled up, and allowed flexibility to scale down when they needed to without having to re-architect later.

Technologies leveraged:

Frontend: An Angular-based web interface provides administrative functionality and a native Android application is used by drivers.

Backend:

- ✓ AWS Lambda to host all of the application logic.
- ✓ Amazon API Gateway to host a REST API.
- ✓ Amazon DynamoDB to store data at persistent state.
- ✓ Amazon Elasticsearch for full text search capabilities and analysis.

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IoT Competency	Migration Competency	AWS Public Sector	Retail Competency
DevOps Competency	Microsoft Workloads	Marketplace Partner	Industrial Software Competency
Data & Analytics Competency	Storage Competency	AWS Channel Reseller	Financial Services Competency
Education Competency	MSP Partner	AWS Government Reseller	Machine Learning Competency
Healthcare Competency	AWS Channel Reseller	Oracle Competency	SaaS Competency