



Case Study

Automating High-Velocity Delivery at Scale

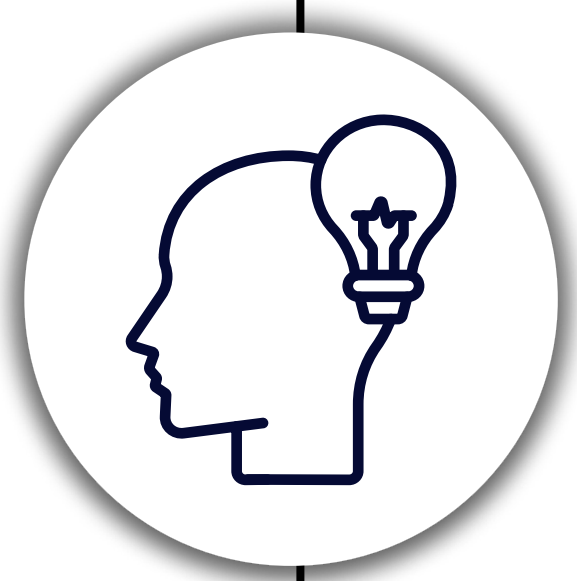


EXECUTIVE SUMMARY

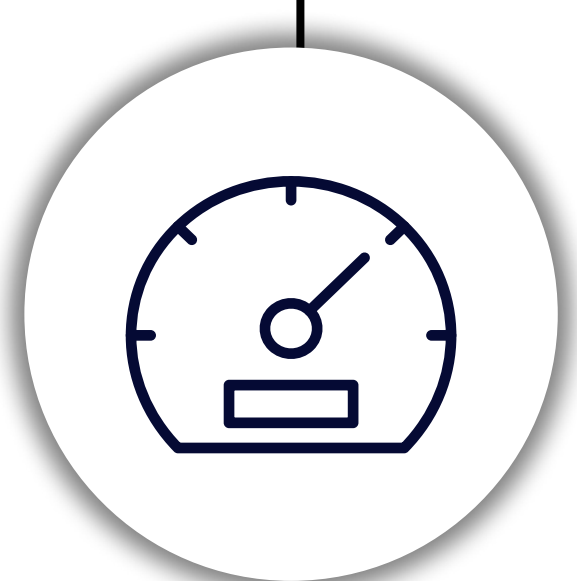
Automated their software delivery by building a scalable, serverless CI/CD pipeline on AWS. This modern system enabled rapid, reliable deployment across geographies. Handling hundreds of millions of IoT events monthly .



Needed a scalable, high-velocity deployment system to support rapid delivery of vehicle-tracking software generating millions of IoT events.



Built a serverless CI/CD pipeline using CodeCommit, CodePipeline, CodeBuild, CodeDeploy, API Gateway, Lambda, and IoT Gateway.

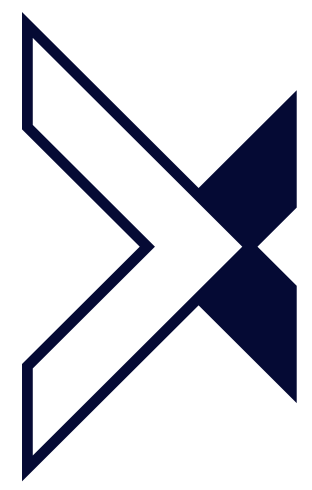


Automated, scalable, and audit-ready delivery enabled daily deployments, empowered developers to focus on innovation, and assured rapid releases.

ABOUT RD OVERSEAS



RD Overseas is a trusted car-accessories manufacturer (ISO 9001 certified since 2006), delivering secure and convenient driving solutions across India. Axcass.io offers specialized cloud advisory, managed services, and DevOps automation for enterprise clients globally. They helped RD accelerate software delivery through serverless CI/CD at scale.



THE CHALLENGE

Required rapid delivery of vehicle-tracking software capable of generating hundreds of millions of IoT events monthly.

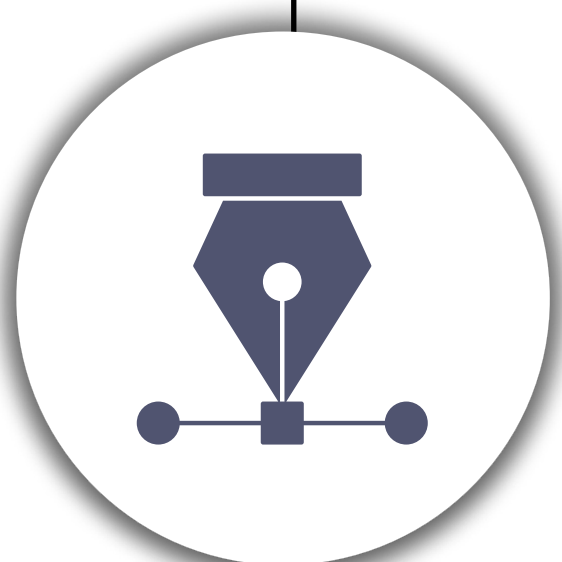
- Needed to ingest and process hundreds of thousands of devices triggering millions of IoT events every month.
- Delivery velocity had to support frequent, high-velocity releases across different geographies and segments.
- Manual deployments introduced delays, complexity, and reliability risks.
- Their legacy delivery process couldn't scale to this volume or velocity.

THE SOLUTION



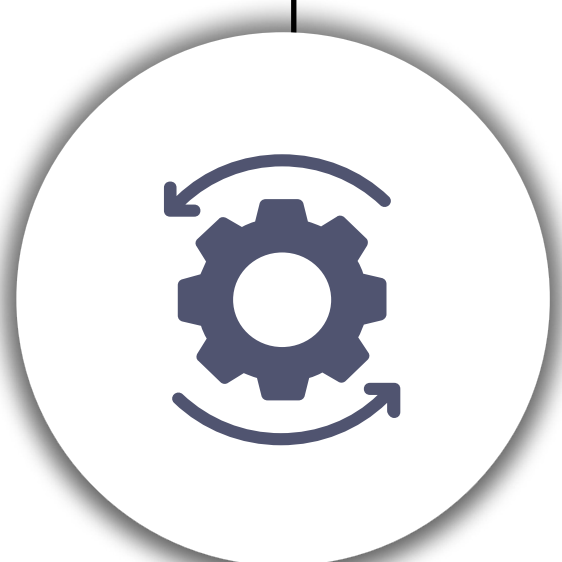
DISCOVERY & PLANNING

Assessed RD Overseas's delivery challenges: IoT scale demands, manual deployment delays, and high-volume event ingestion requirements.



DESIGN & ARCHITECTURE

Conceptualized a serverless architecture using AWS services (Lambda, API Gateway, IoT Gateway, CodeCommit/Build/Deploy/Pipeline) with integrated quality controls.



IMPLEMENTATION & TESTING

CI/CD flow: backlog triggered in Jira → dev commit in CodeCommit → pipeline builds/tests → deployment to Lambda/S3 with notifications.

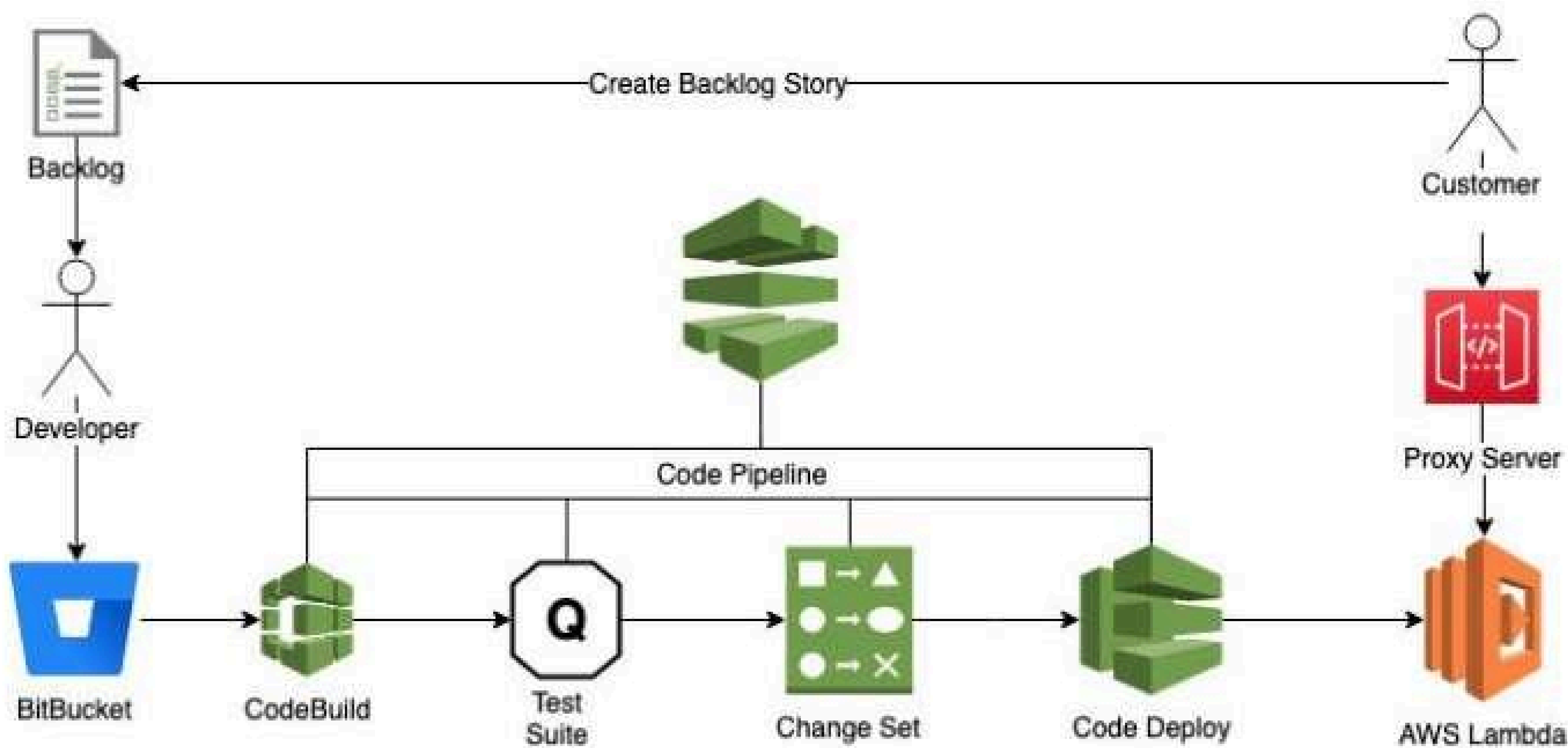


CUTOVER & SUPPORT

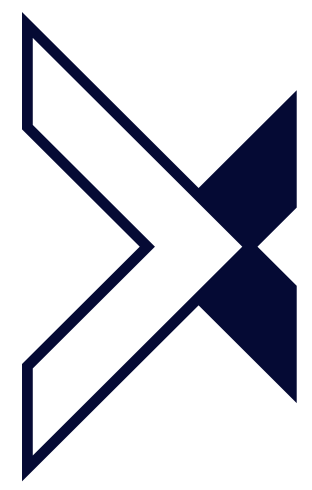
Rolled out automated pipeline into production, enabling multiple daily deployments while ensuring scalability, reliability, and reduced manual intervention.

Axcess.io implemented a serverless, high-velocity CI/CD pipeline with automated quality gates and seamless IoT event delivery on AWS.

AWS ARCHITECTURE



- **Serverless AWS Stack** – Utilizes AWS Lambda, API Gateway, and AWS IoT Gateway to handle hundreds of thousands of device-generated events efficiently.
- **CI/CD Pipeline Tools** – Full automation using CodeCommit for source control, CodeBuild for building artifacts, CodeDeploy for deployments, and CodePipeline for orchestration.
- **Quality & Notifications** – Integrated logging via CloudWatch, with CI/CD-triggered builds and pipeline notifications delivered via AWS CloudWatch/SNS mechanisms.
- **Workflow Integration** – Jira backlog triggers → developers commit → logs and notifications trigger automated pipeline leading to artifact deployment.

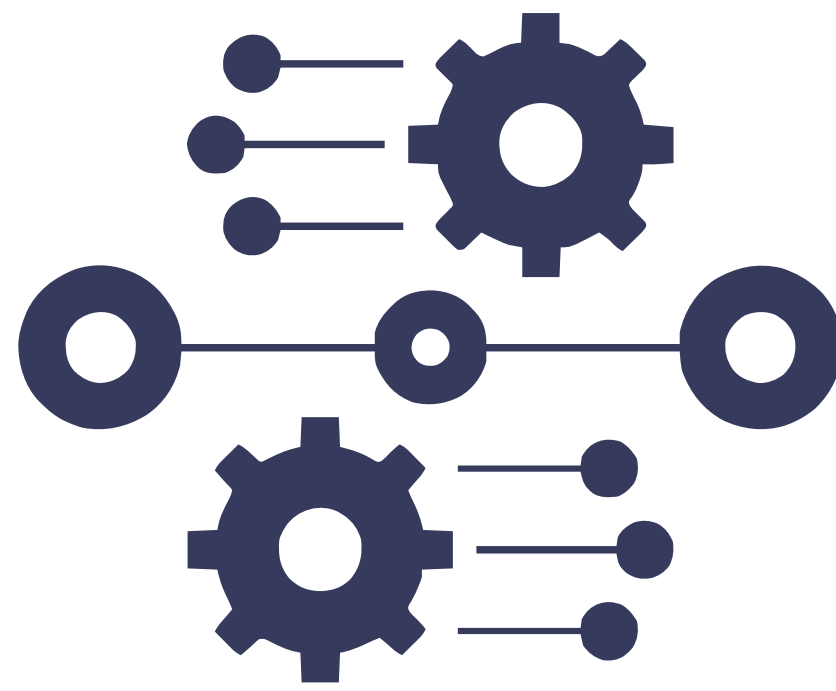


THE BENEFITS



Automated, Scalable Delivery

Serverless CI/CD enabled rapid, frequent deployments with zero manual effort, accelerating delivery across IoT-driven services.



Efficiency and Innovation

Developers shifted focus from operations to innovation, thanks to pipeline automation, quality gates, and real-time feedback loops.



Reliable, audit-Ready Process

End-to-end logging, notifications, and AWS-native controls ensured high code quality, traceability, and compliance across deployment lifecycles.

About Axcess.io

We offer Cloud Transformation, DevOps and SRE Automation, and 24 X 7 Manage Services to improve the agility and velocity of your business. We are a cloud native services company with clients in multiple geographies and industries We specialize in cloud transformation, DevOps automation, managed services and cloud native application development. With offices in USA and India, we empower organizations to transform and secure their IT infrastructure, scale up their operations, and manage customer workloads. from our ISO 27000-certified Global Network Operations Centers (GNOC).



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