



Automating Financial Document Processing with GenAI on AWS

Executive Summary

Dily is a leading Chilean FinTech and automotive platform that streamlines financing processes between car dealerships, customers, and financial institutions. As part of its mission to make vehicle financing simpler and faster, Dily faced increasing operational complexity due to manual document validation during financial application reviews.

To address these inefficiencies, Dily partnered with binbash, an AWS Advanced Consulting Partner specializing in cloud-native automation and AI/ML deployments. Leveraging AWS Bedrock and the binbash LeverageTM framework, binbash implemented a GenAI-based document processing solution that automates verification workflows, improves compliance, and accelerates financial evaluations — all while maintaining strict data security standards.

Customer Challenge

Dily's loan evaluation workflow required financial analysts to manually review and validate multiple customer documents submitted by car dealerships — such as ID cards, proof of address, payslips, and quotations — before forwarding them to banks for credit approval. This manual process created several challenges:

- High operational costs and time delays, limiting scalability as Dily's customer base grew.
- Inconsistencies in document formats, leading to potential errors and bottlenecks in verification.
- The need for greater automation and compliance to support partnerships with financial institutions.

Dily sought a cloud-native AI solution capable of automating document understanding and validation while ensuring security, transparency, and reliability in financial data handling.



Dily is a leading digital platform in Latin America that revolutionizes the way people buy and sell vehicles. Offering a comprehensive suite of services, Dily enables users to manage the entire vehicle transaction process online, securely, and efficiently. From financing and vehicle transfers to automotive insurance and digital marketplaces, Dily provides everything needed to complete vehicle transactions seamlessly on a single platform. Dily's innovative approach empowers both individual users and automotive businesses, allowing them to streamline operations, increase profitability, and enhance customer satisfaction through its user-friendly, fully integrated digital solutions. With a strong focus on scalability, security, and customer experience, Dily continues to lead the automotive services industry in Latin America.



binbash helped us a lot to organize and simplify our infrastructure. What I value most is the willingness to help us understand what they did with their tutorials and the final result that is all well integrated infrastructure as code.

Carlos Álvarez -
Tech Lead



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Solution

binbash architected and deployed a GenAI-powered Document Processing Platform on AWS, designed to automate data extraction, classification, and validation across multiple document types.

AWS Services and Technologies

The solution was built using the following key AWS components:

- Amazon Bedrock for orchestrating AI models, embeddings, and guardrails.
- AWS Lambda and Amazon EventBridge for event-driven automation of ingestion and processing pipelines.
- Amazon S3 for secure and structured storage of raw, preprocessed, and output documents.
- Slack Integration for real-time AI-generated natural language notifications of process completion.
- AWS IAM for security and compliance with PII data-handling standards.

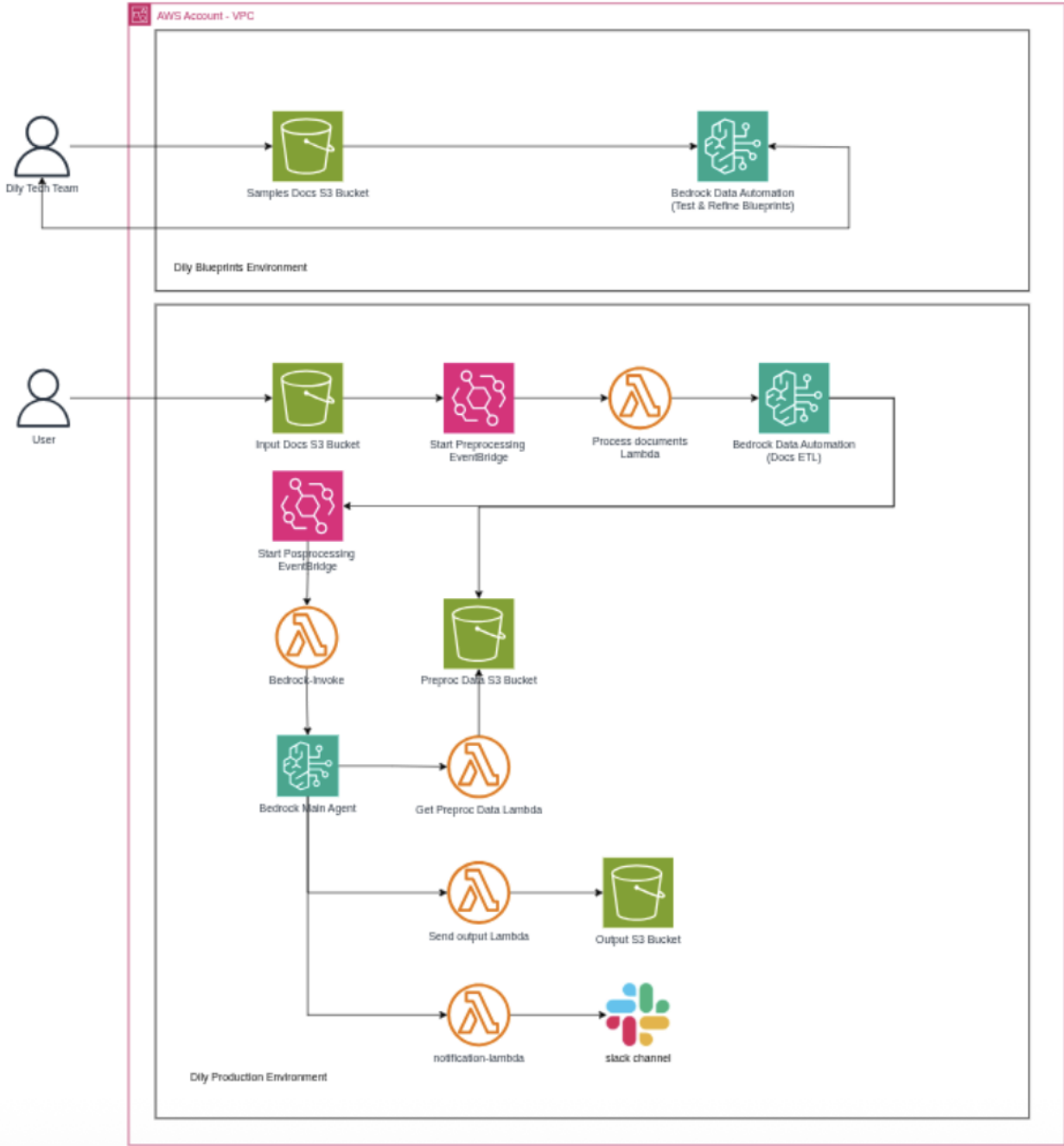
The system was deployed in two main environments — Blueprints and Production — enabling safe experimentation, iterative improvement, and robust scalability. The project followed AWS Well-Architected Framework guidelines and was accelerated by binbash Leverage™, ensuring modularity and reusability across Dily's infrastructure.

Architecture Overview:

A fully serverless, event-driven AWS environment integrating Bedrock Agents, Lambda automation, and S3 data lakes to enable fast, secure, and intelligent document validation workflows.



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Key Components of the Solution

- Document Processing Blueprints Environment
 - Development and testing of processing workflows using sample datasets.
 - Bedrock Data Automation for iterative improvement and accuracy tuning.
- Production Environment
 - Data ingestion and preprocessing: Raw documents stored and organized in S3.
 - AI-driven extraction: Bedrock Agents perform entity extraction, validation, and classification.
 - Notifications: Results automatically delivered to S3 and Slack channels for visibility.
- Security and Compliance
 - Strict PII data segregation via dedicated S3 buckets.
 - IAM and least-privilege policies reinforce compliance and control.
- Automation and Observability
 - Serverless orchestration through Lambda and EventBridge.
 - Real-time process notifications via Slack integrations.
 - Full documentation and demo sessions to support Dily's internal team enablement.

Results

Through this project, Dily achieved measurable improvements in operational efficiency and scalability:

- Automation of document validation reduced manual processing time by up to 75%.
- End-to-end pipeline reduced review turnaround time from days to under one hour.
- Enhanced accuracy through AI-based classification and validation, reducing



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human errors.

- Compliance and data isolation implemented across all document types, improving audit readiness.

Key Milestones

- Data Ingestion and Structuring
 - Built secure S3 data lake and partitions for document storage.
 - Established automated ingestion pipelines for “documentos de liquidaciones.”
- Model Selection and AI Enablement
 - Evaluated and shortlisted top Foundation Models in Amazon Bedrock.
 - Designed and refined AI blueprints for document processing.
- Main Agent Development
 - Built the Bedrock Main Agent to orchestrate validation and notifications via S3 and Slack.
 - Integrated Lambda functions for data retrieval and workflow automation.
- Validation
 - Conducted end-to-end testing using real and synthetic datasets.
- Documentation and Handover
 - Delivered Wiki documentation, deployment guidelines, and knowledge transfer.

Metrics

Manual effort reduction: Achieved a 75% decrease in human document review workload.

Document processing time: Reduced from several days to under 1 hour per case.

Automation coverage: AI-driven workflow now handles over 90% of document types automatically.

Conclusion

By partnering with binbash, Dily successfully implemented a GenAI-based document processing platform that modernizes and accelerates its financing workflow. The solution transformed a manual, resource-heavy process into a fully automated, AI-driven operation — improving speed, accuracy, and compliance while maintaining zero cost through AWS funding.