



Onix automates the asset value discovery process for Catalyst Tech Ventures by implementing AWS tools

Executive Summary

Catalyst Tech Ventures was using a labor-intensive process for maintaining spreadsheets — manually cross-referencing them with incoming IT hardware lists in a variety of formats — to determine market value and maintenance costs. Since they enjoyed success with prior in-house AWS implementations, the company sought another quick, reliable solution using AWS-native tools to de-silo the information to make their data useful rather than being time-consuming. Then they could benefit from automation to determine the market and maintenance cost values for lists exported to them from a variety of sources such as third-party asset management software applications and online questionnaires.



Customer Challenge

Catalyst knew they could save time by eliminating the manual process for obtaining information to establish costs for IT hardware. This time-consuming method of analyzing the data hindered their ability to move the business forward. The organization wanted a quick and innovative tool to handle the workload; a fully automated, event-driven data processing stack.

Partner Solution

Onix developed a cloud-native Asset Valuation tool in Catalyst's AWS Environment to read and reorganize data for visual insights delivered in an interactive dashboard. Using AWS services, Onix established a fully-automated, event-driven ETL pipeline to process data end-to-end using AWS Glue, Python and PySpark, registering the table technical metadata in AWS Glue DataCatalog. The ETL routine leveraged standard, raw, refined and curated data lake zones to process the data, convert it to parquet format — and store final results in a Redshift table for reporting purposes using QuickSight.

Additional AWS services included VPC (InternetGateway, EIP, NatGateway, Subnets, RouteTables, security groups, endpoints), the Onix Custom Data Lake foundation (S3 buckets, Lambda, IAM, SSM, LakeFormation, SecretsManger, Redshift) and Data ETL & Reporting (Lambda, Glue, Eventbridge, SNS, IAM, QuickSight). In just over one month, Onix delivered the asset valuation tool, giving Catalyst a quick, innovative way to identify costs with AWS Analytics products.

Catalyst Tech Ventures

About the Customer

Catalyst Tech Ventures, Peachtree, GA was formed as a holding company — and a technology investment company — for select tech start-ups. The company's assets involve mostly IT hardware and support services, especially for companies moving to the cloud — and that have an impact upon the skilled and experienced individuals required for this fast-paced environment. The company urgently needed to automate their process for determining market value from supplied lists in various formats.





Why AWS?

AWS provides customers with cloud-native, easy-to-use serverless architecture to improve and extend their existing capabilities for enhanced performance. When conducting an end-to-end analysis of the existing Catalyst environment, Onix learned that the customer was already using an AWS infrastructure, making AWS a clear choice. Catalyst Tech Ventures was pleased with prior AWS implementation projects and solutions that resulted in positive outcomes. The company recognized that Onix brought the skills and abilities to accelerate the customer experience to meet their outcome.



AWS
Lambda



Amazon
Redshift



AWS Lake
Formation



AWS Secrets
Manager



Amazon
EventBridge



Amazon
QuickSight



Data Catalog



AWS IAM



Parameter Store

Why Customer Chose Onix?

Catalyst Tech Ventures had an existing relationship with Onix, and was confident with the proposed strategy, end-to-end implementation approach — and expected results. Catalyst valued the implementation of role-level security at the data-set level to provide centralized access management allowing them to easily share the QuickSight dashboard with account managers and any number of clients/client employees at a granular level. They would also be able to easily revoke access if required.

Impact and Results

Catalyst gained a fully automated data processing stack using AWS Serverless technologies (processing), AWS Redshift (data warehouse) — and AWS QuickSight for BI Reporting. CSV files are uploaded to an S3 bucket using Lambda and/or Glue. Technical metadata is registered in the AWS Glue DataCatalog. Ten form schemas have become just two. The QuickSight dashboard provides a consistent, filterable single-source output with a high-level raw data summary. Role-level data security provides centralized access management control to share with account managers, clients and their employees. Catalyst plans to further enhance the new dashboard as part of this project.

About Onix

Onix is a world-class AWS Advanced Tier Services Partner that strives to help customers increase organizational efficiency through cloud-computing solutions. Our expertise covers D&A, App Mod/Migration, Cloud Adoption and MSP. With proven success across hundreds of customers, we build agile yet scalable solutions by partnering with AWS to accelerate customer experience and back our strategic planning and deployment expertise with incomparable service, training and support.

"Onix helped us build the foundation for what will serve as a valuable cloud-native Asset Valuation Tool for our team. Onix first created a landing zone and stood up a complete data lake foundation to digest and process our data, then leveraged the visualizations of Amazon QuickSight to utilize our data to provide meaningful insight. Thanks to the tool and dashboard that Onix developed, we will be able to share the product information with prospective clients and current account managers. Thank you, Onix, for supporting our efforts in this project! We look forward to working with you soon to continue to develop this tool for our team!"

- Mark Metz,
CEO & Founder, Catalyst Tech Ventures



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for anything cloud!