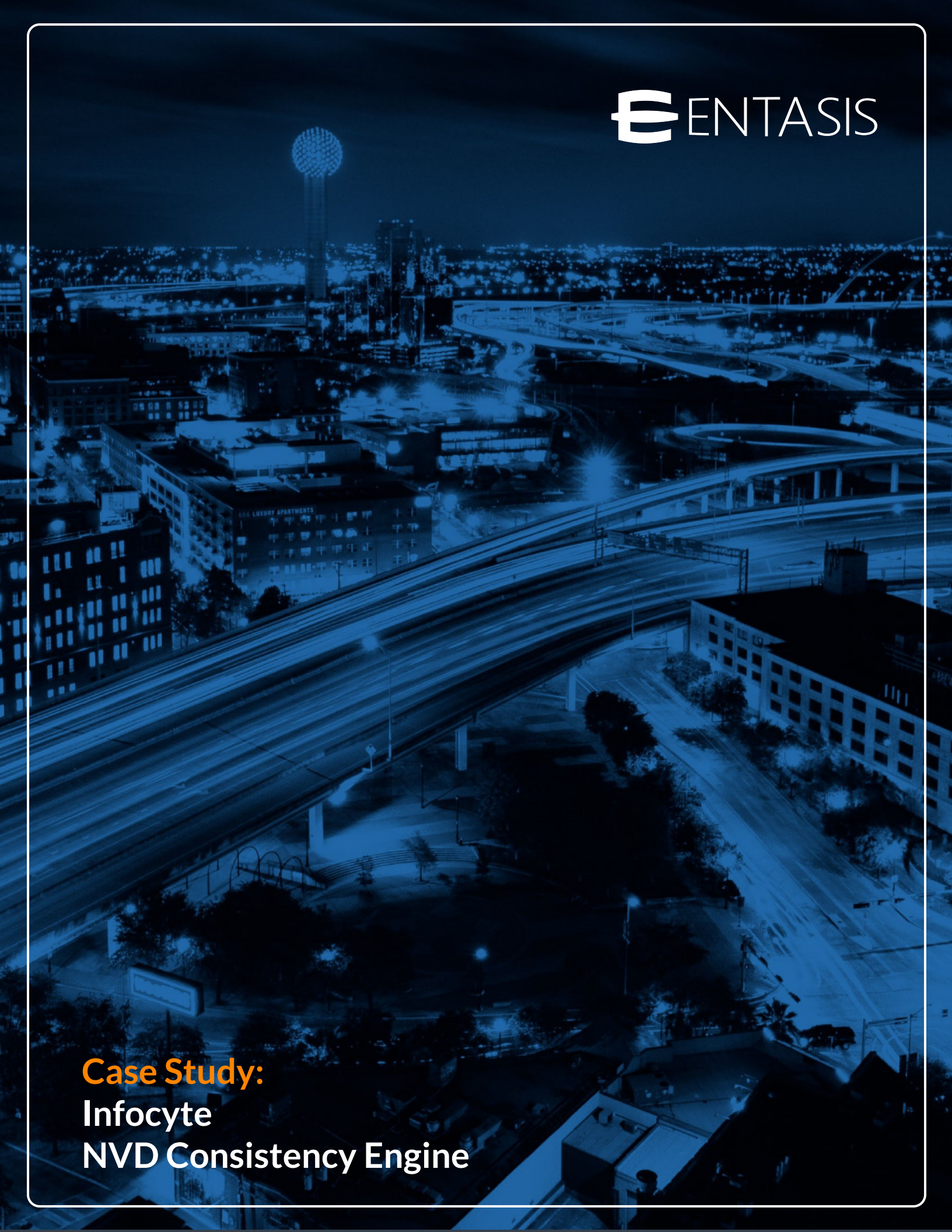


Case Study:
Infocyte
NVD Consistency Engine

COMPANY SUMMARY

WHO WE ARE AND WHAT WE DO

Entasis Technology Consulting was founded in 2016 by Matthew Mattoon. Entasis is a Veteran-owned AWS Advanced Partner that focuses on Architecture and Automation.

We believe technology should be elastic by nature, resilient in design, with performance on demand.

The Entasis team has over 30 years of experience in technology with over ten AWS certifications.

Entasis hosts the AWS User Group DFW North that has over 320 members.

CASE STUDY:
NVD Consistency Engine

AWS SERVICES

AWS Services: CloudFormation, Lambda, S3, CloudWatch Events

CUSTOMER DESCRIPTION

Infocyte HUNT is an independent, cloud-deployable platform that helps security teams detect and respond to threats capable of evading the world's best prevention technologies.

CUSTOMER PROBLEM

To keep feeding their platform which runs on AWS the latest data from NIST of vulnerabilities in the wild.
Infocyte was downloading NVD updates from NIST daily and applying those changes to local copies of the dataset. NIST only makes a fixed number of days available and in the event, that an environment was missing. They would need to reinitialize the dataset from scratch, sometimes across multiple customer environments.

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IMPACT OF THE PROBLEM

Infocyte would have to trigger manual processes to reinitialize the datasets as well as processes to evaluate all customer datasets in order to make sure all of their customers had the most current and accurate copy of the dataset in their environments.

HOW TO FIX THE PROBLEM

Entasis recommended a serverless process leveraging Lambda and S3 deployed by CloudFormation and executed on CloudWatch events using CRON expressions. This process retrieves daily updates from NIST, normalizes them, and archives them so that they could be applied to customer datasets.
Additionally we leveraged the Serverless Application Model to be able to easily leverage blue/green deployment patterns.

SOLUTION IMPACT

This process ensures that the customer will not have to do a manual reinitialization of their dataset since they will always have an archive of their normalized files available to their customers.

Case Study Diagram

