

DISCOVERY OF ASSETS OF YOUR ENTERPRISE APPLICATIONS & ITS ENVIRONMENT IS KEY TO ROBUST & SECURED CLOUD MIGRATION



HAVE YOU FIGURED OUT A WAY TO DO CONTINUOUS INTEGRATION BUT CANNOT EFFECTIVELY AND EFFICIENTLY DEPLOY APPLICATIONS?

The method of understanding and planning application deployment can be challenging. The awareness of the current environment, including its dependencies with internal and third-party libraries, middleware for a platform, and application makes it ideal for deployment process. On the other hand, collecting the details of your network stack, including ports, sockets, protocols, firewall, and security settings between all compute nodes of the applications, and execution elements are imperative. Each stage of the process should be aware of the start and end time followed by several technologies that ought to be used and notify the operations team about the required infrastructure changes. Executing these complex tasks in a sequential form needs a meticulous approach with the right combination of developers, testers, and operational teams. Besides, it takes a whole lot of time to accomplish the task and minimize errors.

Client Overview

Location: Irving, Texas

Industry: Telecom

Project Duration:

2 months for 10 applications to Non-Production and Production environments in public cloud.

Client Profile

Verizon is one of the largest Telecom providers in the United States, renowned for delivering comprehensive communications and technology solutions that improve the customer's journey.

Business requirement

The current enterprise applications go through a recurring deployment cycle for every 90 days to meet security guidelines for patches and rebuild environment for smooth operations. During this rehydration process, the team creates a whole new environment and reinstalls all elements of the applications, including the operating system, dependent middleware, libraries, and services. This entire manual process would take more than a couple of weeks and is prone to errors due to human involvement and complexity. Most of the times, this manual process would result in delays in the rehydration process, causing security vulnerability and performance degradations. The primary objective is to reduce time to market and improve the reliability of the deployment process with full automation.

Suggested solution

CNET Global Solutions suggested a fully automated DevOps framework that can help with application deployment to the cloud. The solution also involved support for full release orchestration, and enable CI/CD using existing platforms and frameworks such as Jenkins, Ansible, Maven, SonarQube, and others.

CNET products

1. Cloud Management:
Seamlessly migrate between clouds with our cloud-agnostic platform that creates and manages virtual resources in minutes.
2. Application/Service Management:
Automatically deploy a full-solution stack using a workflow-driven self-service catalog that supports DevOps efficiencies.
3. Operations Management:
Monitor the environment to understand capacity demands and outages, proactively take action when alerts are received.
4. Container Management:
Enable legacy application modernization with Kubernetes container support and life cycle management.
5. Cost Management:
Use analytics to understand cloud usage and cost and dynamically rebalance work loads across cloud providers.

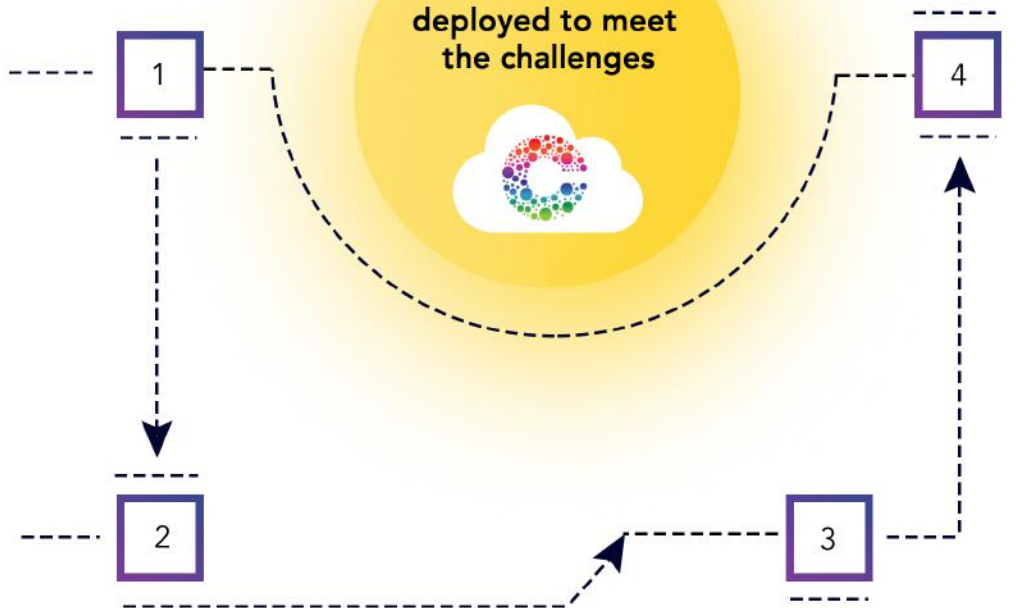
CNET's solution for rehydration process in four stages

1. Discovery

CNET's discovery module detects all existing infrastructure and service details, including the dependencies and service and application configurations. These details will be used to design a target system. In the case of an existing application environment, source and target cloud platforms are the same.

4. Release Orchestration

Provides a dynamic workflow with numerous plugins to automate application build and deployment process.



2. Migration

Migration module designs target system infrastructure and services by generating necessary cloud formation templates and service installation and configuration scripts.

3. Cloud Management Platform

Helps to create infrastructure on AWS based on generated cloud formation templates.

Challenges

- To migrate the legacy enterprise application to the public cloud without any domain expertise
- To automate rehydration of the application deployment process, and reduce the overall time to market
- To design a target system, detect the existing infrastructure, and service details within the application environment
- To use cloud-generated formation templates, and create the infrastructure on AWS
- To incorporate the dynamic workflow for application automation, and deployment process

Highlights of the project

- Achieved automated rehydration for all applications to have one-click deployment
- Over 90% of automation achieved for all applications
- Migration completed well ahead of time, at 10x faster rate than any traditional process

End result

Successful application deployment automation depends on being able to provide a solution that is seamless and reduces failure points for customers and enhances the application performance by allowing rapid rebuilding of applications for the cloud on each rehydration process.

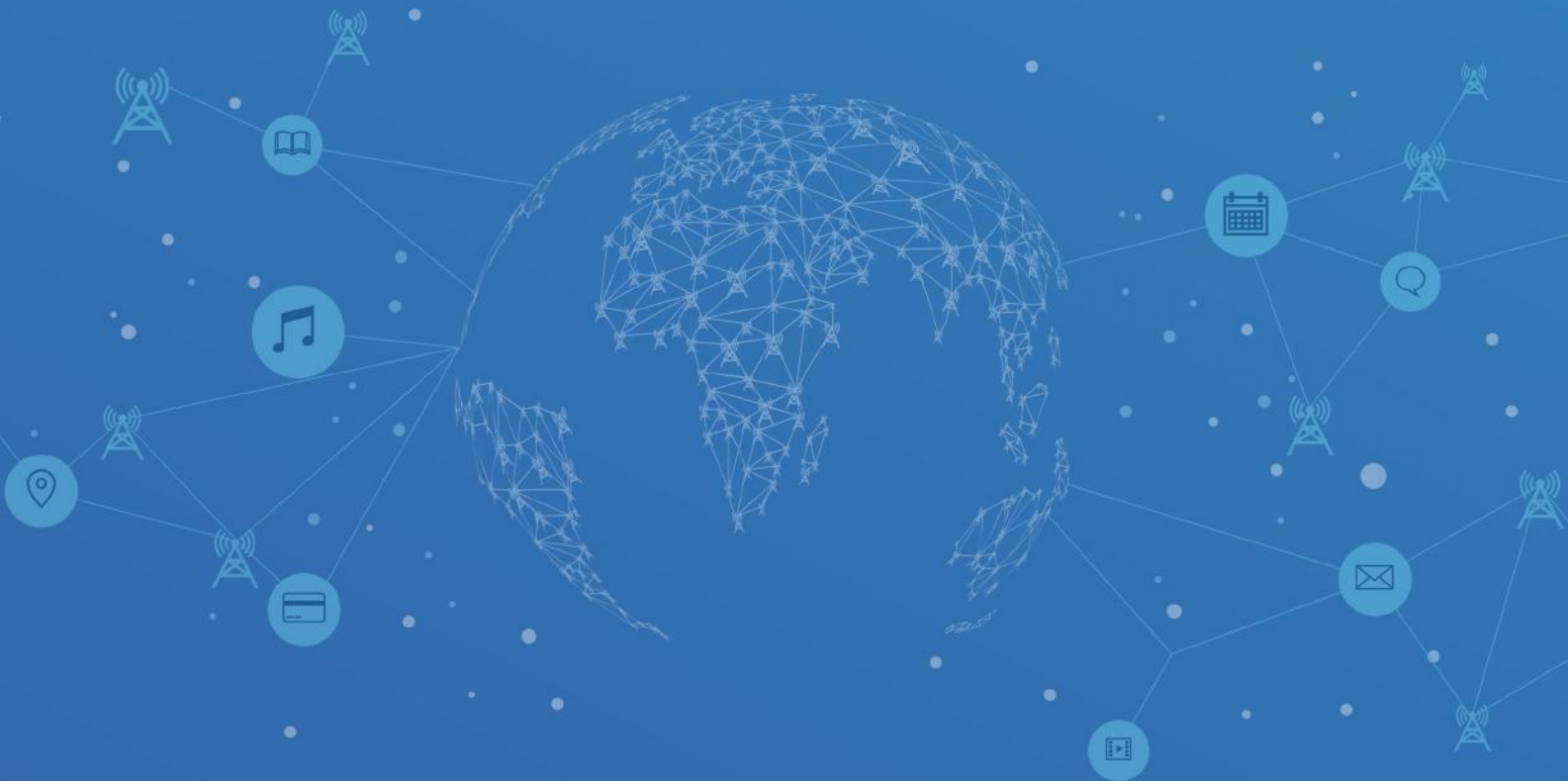
Key points

- We have designed the solution to automate rehydration process and implemented it successfully to meet the requirement
- We reduced time to market for the applications and the deployment process slashed from weeks to a few hours
- Provided a simple deployment, and rehydration process to eliminate errors



Why CNET Global Solutions?

In today's age of digital transformation, any company needs the ability to rapidly build and deploy new process, features, and security enhancements. With a platform or customized automation; this journey can be challenging, hence, building full automation is the key to ensure initial, and ongoing success of the application deployment. Enterprises are curious to adopt substitute options to eliminate the hurdles in the process, but it could be challenging to find the right service provider to match the real world requirement of application deployment. We, at CNET's Matilda Cloud Solutions, understand the required process and technology to move an application from an on-premises into a cloud-based environment and empower businesses to reduce cloud migration time, and expense. This way, we help accelerate application delivery to launch new products and drive digital evolution through cutting-edge solutions.



Facilitates Devops

Consider the many areas where Development & Operations intersect. An essential feature of our solution is managing the options provided to the Development teams to ensure IT policies are followed, and to automate the release management cycle for quicker deployment. CNET's Matilda Cloud Solutions provide a framework to support your current operational challenges and future digital transformation initiatives.

Our solutions facilitate application migration platform to move physical or virtual hosted environments to the cloud in short-time. Thus, you can migrate applications in hours instead of days.

Benefits

Easily Move Workloads

Workloads easily transition from dev to test, to staging and production, as well as between cloud environments

Service Catalog-Based Workflows

Control the choices being offered to the Development teams by providing IT Operations defined workflows

Support of CI/CD Automation

Support automation activities via built-in integration with code repositories

Container Management Functions

Enable intelligent scaling, load balancing, high availability, and support for digital transformation activities

About CNET

CNET Global Solutions enables its clients to outperform their peers by optimizing existing operations and achieving a faster time to market. We offer legacy application transformation, operations optimization, and managed services. We have proven experience in application development, maintenance, and transformation which enables organizations to embark on their digital journey with agility and flexibility.

For more information, visit us at www.cnet-global.com or email us at info@cnet-global.com

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