

theCompany

A leader in building, implementing and maintaining comprehensive reliability programs for process facilities in the oil and gas, chemical, mining, pharmaceutical, wastewater, and electric power industries. The client needed assistance in developing an Availability Model POC. Additionally, they wanted to release full deployments in the Azure DevOps cloud ecosystem.

Move fast. Build smart.
Run with confidence

theBenefit

The client can now model the availability of a system using Visio and automatically calculate system uptime with the click of a button. Previously, the client had to break a system model into subsystems by hand to calculate uptime which required hours of time and modeling expertise.

In the area of DevOps, the client can now develop, build, and release entirely within the Azure cloud ecosystem.

theChallenge

The client had a complex manual process for modeling the availability of processing facilities. They wanted a way to automate the manual processes their engineers have to go through to assess a factories processing availability. To start the process to see if the manual process could be accomplished via an application, the client requested a Proof of Concept (POC) be done to prove an Availability Model could be created and automatically calculated.

Additionally, the client is not using a build-once-and-release methodology. Instead, there are distinct builds for all versions and environments of each software product. This results in significant drift between what should be the same product for testing environments and for production.

theSolution

Clear Measure proposed using Visio as part of the POC application. In this application, we developed functionality to process their complex algorithms used to drive their availability modeling process. Clear Measure also used Visio to build diagrams of these facilities.

For the client's software build issues, Clear Measure initiated a new software development project using Azure DevOps and implemented a new branching strategy and pull requests for their systems.