When a food service firm’s primary offering is a high-tech, integrated management and marketing platform, the ability to build, test and release code updates quickly is vital to competitive advantage. That’s why one such firm tapped Orasi’s Advanced Technology Solutions (ATS) team to help automate its CI/CD pipeline for a point of sale (POS) platform with more than 21 major application components.

Prior to working with ATS, each time the firm needed code updates, development teams experienced challenges getting its solution recompiled, deployed onto hardware and tested when changes occurred. It took more than eight days to be completed for just the Dev environments, including a number of manual steps.

The client’s objective was to create an automated, continuous flow pipeline that executed from start to finish faster, improved productivity and efficiency, and delivered more reliable software releases with better product quality. Orasi applied its unique agile-driven DevOps delivery approach to iteratively deliver capabilities in two-week sprint cycles across a 12-week timeline.

The effort was divided into six sprints:

**Sprint 1** centered around designing all aspects of the solution and gaining client buy-in, while assessing what components were already in place. During this sprint, the ATS team worked with the client to build the project backlog and confirm expectations around scope, communications and timelines.

**Sprint 2** focused on being able to automatically and dynamically build the entire AWS-based infrastructure using Infrastructure-as-Code techniques. At the end of this sprint, the infrastructure could be dynamically built and destroyed in fewer than 20 minutes.

**Sprints 3 and 4** involved heavy coding of Jenkins/Groovy scripts to automatically integrate and rebuild all application components. At the conclusion of Sprint 4, the ATS team could rebuild and redeploy all 21 apps onto the infrastructure.

**Sprint 5** focused on building scripts to automatically deploy the Selenium-based test environment and pre-built automated test cases into the ephemeral environment. Once completed, the team could automatically deploy all applications, infrastructure, test environments and test cases into the cloud.

**Sprint 6** allowed the team to tie the entire solution together, focusing on orchestrating the pipeline execute from start to finish and applying a sophisticated tagging strategy to maintain progress status at every step, including “pass or fail” details and notifications. ATS also cross-trained and transitioned solution components to the client staff.

“This was a challenging engagement for ATS, because we came into a situation where the application itself was not ready for our process,” says Orasi Managing Director Richard White. “Nonetheless, it offered an extraordinary opportunity for us to push the envelope and prove just how much we could accomplish in a very short time. The look of amazement on our customer’s face made it worth every minute.”

At the conclusion of Sprint 6, the push-button automated solution reduced the throughput across the pipeline from eight days to eight hours!