Agile Development Transformation

End Client

A Civilian Federal Agency

The Challenge

The program had struggled with delivering application functionality into production with releases being few and far between. The agency (with the previous contractor) had embarked upon a massive Application and IT Modernization effort of moving their flagship spectrum management desktop (and MS Access) application to a Single Page Web application almost four (4) years ago and had slipped significantly multiple times. As of March 2019, the program was only at a pre-production v0.6 instead of the planned (and much anticipated) production v1.0. Since this [failed] effort had absorbed most of the resources for years, the program had accumulated a huge backlog of critical security (such as CUI) and functional enhancements.

Our Services

- ✓ Strategy and IT Enablement → IT Program and Project Management
- ✓ IT Advisory Services → IT Modernization Strategy, Planning, and Support
- ✓ Solution Architecture → Application Architecture & Development

Our Approach and the Results Achieved

TekNirvana provided crucial leadership and coaching to the entire organization on the proper use of agile techniques. We helped/led the organization transition into "being agile" to fully adopt the agile mindset. TekNirvana also envisioned and spearheaded an Agile journey to streamline, automate, and optimize the program's agile development practices, which ultimately became a roadmap for other agency projects to follow. Our leadership helped establish a regular cadence of high quality, on budget, and on schedule releases into production. As a direct result of our work above, we helped the agency consistently release code into production after every four development sprints and one hardening sprint. Over the span of the three-year period of performance, we had over 31 on-time and within budget sprints, all of which contained numerous critical security and functional enhancements necessary to maintain operational status of the program. The agency realized many benefits including better planning of releases, meeting commitments, repeatable deployments, and reduced defects with consistently zero (0) Test/PAT Priority 1 & 2 defects at the time of deployment as a direct result of our increased focus on in-sprint testing in our [newly implemented] dedicated development test and regression testing environments. We also worked with the agency in planning, designing, and ultimately implementing their transition of the non-production "on premise" environments (DEV, PAT, and UAT) to the AWS cloud.