



How Containerization Accelerated Secure Voting for an Election Solution Provider

Case Study



The Challenge:

The entire election process – from voter registration and notification to voting, tabulation, and reporting – is increasingly digital. COVID-19 has only accelerated the transition. As a result, a leading digital election solution provider was eager to dramatically modernize and enhance the way they verify their systems, preparing and securing them in advance of each upcoming election. Their platform would need to be flexible and responsive enough to deal with the dynamic requirements of voting, today and in the future.

The obstacle was that their existing systems were developed five to ten years ago. They were slow and expensive to update, creating an obstacle inhibiting adaptation to today's realities and challenges. The client needed an [application modernization partner](#) to review their current approach, and determine how automation and container technology could solve their problem. Based upon our reputation for modernizing traditional applications, the company chose to work with Capstone IT to achieve their desired results.



The Solution:

Capstone IT applied modern technologies, which were designed from the ground up to solve dynamic, high-scale business problems. Our approach hinged upon the belief digital processing must be demonstrably secure and reliable to empower our client to augment their capabilities and improve their solution.

In their past development cycles, the client was required to gather their physical equipment and coordinate large numbers of temporary employees to feed those election machines with millions of ballots prior to deployment. This election simulation was very expensive, and took a significant percentage of the overall time needed to deliver an updated system ready for each election cycle.

Using modern containerized software orchestrated in highly scalable clusters, Capstone replaced this protracted and costly project phase with reliable, efficient, and repeatable automations. The clustered software elements are now able to automatically run simulations in less than three days – work that previously took 30 people three months of manual ballot feeding to complete. That time has now been returned to the company's development organization, enabling the company to deliver newer capabilities, more frequently and at a lower cost.



The Results:

The client now experiences faster and less expensive development cycles, enabling significant time to be repurposed towards building new capabilities. The first election cycle after the new software launched went off without a hitch. The new capabilities resulted in savings of more than 400% compared to the cost to get the capabilities in place. And since each subsequent election cycle will reuse that same software with only minimal additional investment to adapt the new capabilities added during the most recent phase, the ROI will be substantial.

Want to unlock the power of containerized microservices?
[Reach out to the Capstone IT team](#) and we'll help you accelerate your capacity to do bigger things.

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