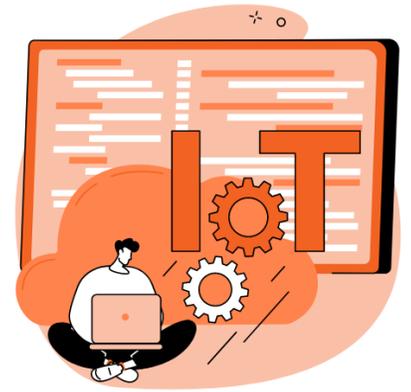


## IoT Project Helps Business Grow

IoT, also known as the Internet of Things, is becoming more popular as technology continues to advance at an exponential rate. The ability to track data on devices has become a competitive advantage for many companies across all industries. OmniMetrix recognized that advantage and started to manufacture and integrate IoT technology in their power generator monitoring solutions. One of their main goals is to dramatically increase power generator system reliability using their products and services.

In recent years, OmniMetrix has seen increases in demand for its services; as a result, it has become necessary to update their current solution to continue delivering data securely and in real-time to their clients. OmniMetrix partnered with Biz Technology Solutions, Inc (Biz Tech) to help enhance and migrate their solution to the Cloud. As a result of this project, their solution processes data 5x faster and is more robust, more scalable, and easier to use and maintain.



### The Challenge

One of the main issues the company faced was being able to deliver data to their clients in a timely manner. As part of the National Fire Protection Association requirements under the NFPA 110 standards, every power generator is required to be compliant with specifications which include continuous monitoring and testing of all power generators used in federal, state, and county hospitals and other critical service centers. OmniMetrix had also seen increases in demand due to ice and snowstorms that previously hit Texas in recent years. As a result, OmniMetrix has been continuously working to provide support to these organizations, so they meet these requirements. Over time, the company has been experiencing growth within its organization, so it became clear that its environment needed to be updated to sustain the increased volume of units being monitored.

### Why They Chose Biz Tech

To avoid putting their customers at risk of non-compliance and trying to support the demand increases, OmniMetrix decided to utilize its partnership with Biz Tech to evaluate its current system. OmniMetrix needed a vendor that would not only be able to make updates to their applications but also had the ability to migrate the solution to the cloud and provide additional day-to-day support. Biz Tech has three practices Application Development, Infrastructure Support, and Professional Services all under one umbrella. In addition, Biz Tech has a great reputation in the mid-size business arena. These key differentiators gave OmniMetrix peace of mind knowing that Biz Technology Solutions, Inc has expertise in these critical areas of technology.

## The Solution

The first step in executing the best solution for OmniMetrix was to evaluate their current environment, infrastructure, and current state of security. After several assessments and interactions with the company stakeholders, we outlined a remediation plan that would support their projected growth. We were able to suggest several changes that needed to be made to current applications and configurations in their database. Part of these changes would result in an improvement in processing times on all incoming messages from the IoT devices. Given the rapid growth the company had experienced, Biz Tech recommended leveraging Microsoft Cloud Environment to utilize the flexibility of the storage capability and scalability of resources over time. This meant that all the applications and data would be migrated to Microsoft Azure from an on-premises structure. In addition, some changes were made to the infrastructure to better help support it. As it relates to security, Microsoft Azure has many security capabilities that would help improve the company's security needs as well as make sure threats are addressed appropriately. As part of the project, we also installed a load balancer that manages traffic and routes traffic to active servers. That way if one server goes down then it will reroute data until that server is back online. This load balancer can also auto-scale, so servers don't get overloaded.

## The Results

OmniMetrix is now seeing 5x faster performance. They are now able to manage more IoT devices and the system is more robust and scalable. It is now easier to maintain and more user-friendly. This solution has given OmniMetrix a competitive advantage in the marketplace. Overall, the company is extremely pleased with the way this project has turned out. Tracy Clifford, CFO at OmniMetrix, said, "As a result of the dedication and diligence of the Biz Tech team and Bob and Spencer we successfully transitioned to Azure from our data center this weekend. THANK YOU is not sufficient. I want to express my sincere appreciation to everyone involved on this project during the last ten months to make this happen. This transition brings OmniMetrix a huge step forward in our ability to grow connections, have more timely database responses for our customers, offer a more secure and flexible environment for our customer's data, and many more benefits!"

As technologies become more complex, finding an operationally mature provider, that provides integrated solutions and has credibility in the marketplace is critical to the success of IT projects. At Biz Technology Solutions, Inc we can provide Infrastructure Professional Services, Managed IT Services, and Application Development all under one umbrella - "One stop shop".

If you are ready to start using your IT as a competitive advantage as OmniMetrix did, contact Biz Technology Solutions Inc. today at 704-658-1707, [info@biztechnologysolutions.com](mailto:info@biztechnologysolutions.com), or visit [www.biztechnologysolutions.com](http://www.biztechnologysolutions.com).