



Improving IT Efficiency, Scalability & Time-to-Market with DevOps Automation

Success Story

A leading wearable physiology monitoring company leveraged CitiusTech's DevOps capabilities and automated infrastructure provisioning to accelerate go-to-market, manage scalability and minimize OPEX for its new IoT application

Business Impact

A leading provider of wearable devices for physiology monitoring partnered with CitiusTech to optimize development and scale operations cost-effectively. Using CitiusTech's strong experience in DevOps automation and cloud deployments, they achieved massive gains in productivity and time-to-market.

50X

Faster
Mean Time To
Deploy

75X

Faster
Infrastructure
Provisioning

90%

Productivity
Increase via
Automation

99.7%

Application
Availability
Ensured

Client Requirement

Client is a premier wearable physiology monitoring company that provides integrated solutions with connected hardware, value-added data analytics and monitoring services.

It had recently developed a new IoT application that it was planning to launch. However to ensure the success of the new application, the client had to address multiple needs such as:

- Better predictability of IT costs
- Greater transparency through a consumption-based pricing model
- Long-term cost benefits – by lowering CAPEX and building more efficient processes.

The CitiusTech Advantage

To address its efficiency, time-to-market and cost needs, the Client partnered with CitiusTech for DevOps automation and auto-provisioning. It developed a comprehensive, full-automated approach to development, QA, staging and deployment.

The CitiusTech team automated the build and deployment process using a robust DevOps governance process, including the ability to manage PHI data. It provided a self-service infrastructure provisioning capability. CitiusTech also introduced moderated build propagation to replace the client's existing manual testing processes.

The result was significantly faster software development and deployment at lower cost and higher quality.

Technology Overview

CitiusTech's comprehensive approach to DevOps helped the client address several key challenges:

Templates & Blueprints

- Deploying Azure ARM templates to design, manage, and build self-service capabilities
- Include topology, configuration, OS and Software packages within the infrastructure provisioning feature, to minimize ambiguity and sprawl

High Availability & Scalability

- Tracked availability metrics like Mean Time To Failure (MTTF) and Mean Time to Repair (MTTR)
- Inbuilt load balancer for auto-scale

Automated Testing

- Automated static code analysis, application testing (unit, functional, sanity, load, performance) and deployments using Azure DevOps

Healthcare Data Security & Accessibility

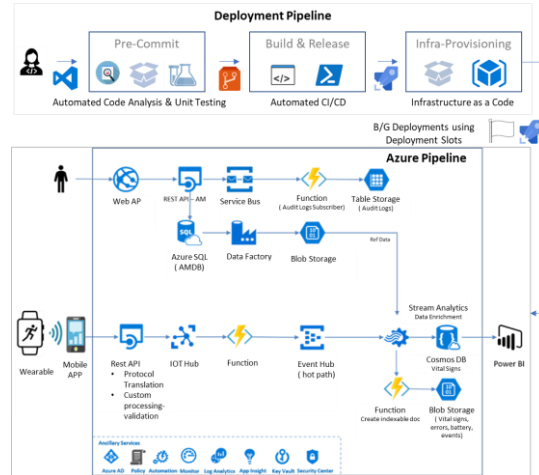
- Used ARM Template Checker task to check security settings
- Used Security Verification Tests (SVTs) task, to check secure configuration for deployed resources

Monitoring & Health Checks

- Tracked Live Metric Streams - Incoming Requests, Requests Per Second, Request Duration, App Failure: Server Performance, Latency, etc.

Deployment Strategy

- Implemented Azure-based deployment slots to setup staging environments for deploying new release
- Enabled Blue/Green deployment model to toggle between production and staging environments



Solution Schematic

About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to healthcare technology companies, providers, payers and life sciences organizations. With over 4,000 professionals worldwide, CitiusTech enables healthcare organizations to drive clinical value chain excellence - across integration & interoperability, data management (EDW, Big Data), performance management (BI / analytics), predictive analytics & data science and digital engagement (mobile, IoT). CitiusTech helps customers accelerate innovation in healthcare through specialized solutions, platforms, proficiencies and accelerators. With cutting-edge technology, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare organizations worldwide.

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