



# laC

Infrastructure as Code (laC) is a key DevOps practice that involves the management of infrastructure, such as networks, compute services, databases, storages, and connection topology, in a descriptive model. laC allows teams to develop and release changes faster and with greater confidence

# Key Highlights

## ■ Scalability and Flexibility:

Easily scale resources up or down in response to changing demands, ensuring optimal resource utilization.

## ■ Version Control for Infrastructure:

IaC allows you to treat infrastructure configurations as code, enabling version control and easy rollback

## ■ Increased Efficiency and Speed:

Automation of infrastructure provisioning and management accelerates deployment and reduces manual errors.

## ■ Collaboration and DevOps Integration:

Promotes collaboration between development and operations teams, fostering a DevOps culture.

### US Corporate Office

100 Wood Ave South, Suite 105, Iselin,  
New Jersey 08830-2716

Tel: 732.494.0550



### Challenge

Complex Environment and No Version Control



### Solution

Revamped Framework. Azure Implementation.



### Impact

Greater Agility, Improved Collaboration, version control and auditing

## Challenge

In complex environments where infrastructure configurations and secrets are managed manually, organizations often grapple with significant challenges. Without version control, tracking changes and ensuring consistency across various stages of development becomes arduous. Manual scaling and network configuration further compound these issues, leading to potential inefficiencies and errors. The manual creation, configuration, tuning, and maintenance of virtual machines (VMs) not only consumes valuable time but also increases the likelihood of configuration drift and human errors. In such environments, the adoption of Infrastructure as Code (IaC) can be transformative.

## NuSolution

- NuWare designed an architecture that leveraged Azure's environment for development, test and production.
- Designed a fully automated, continuous integration and delivery system for app deployments.
- Significant boost in performance by architecting highly available environments with IaC and Auto Scaling for robustness and stability.
- IaC allows us to dynamically scale resources based on demand. This flexibility ensures optimal resource utilization, reducing costs during low-demand periods and accommodating spikes seamlessly.

## Impact

Using a IaC model, NuWare was able to help the client implement continuous integration and continuous delivery (CI/CD) practices, and also automate infrastructure provisioning and management. The client was able to realize immediate benefits such as quicker application deployment, auto-scaling of infrastructure and faster innovation. In addition, the new architecture helped in gaining more visibility, control on cloud billing, and lowered costs further.