

A Leading 3D Printing Solutions Provider Boosts Agility and Saves ~\$1,57,000 USD Annually

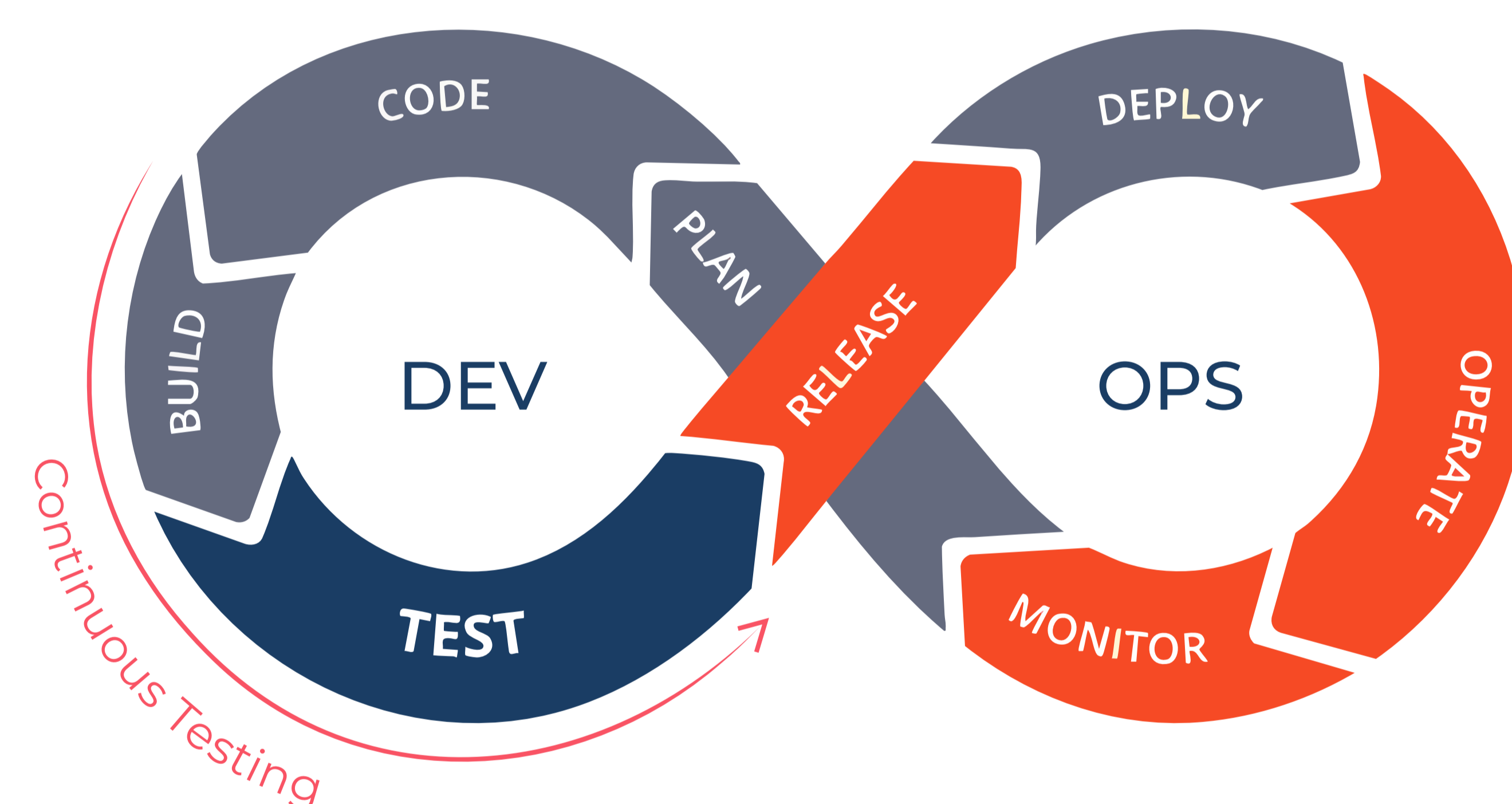
With Enhops DevOps and Continuous Testing Services

About the Client

The client is a dynamic 3D printing solutions provider with a vision to create a fully personalized future through innovative digital factories. They use cutting-edge technology to develop tailored manufacturing solutions that tackle complex challenges across various industries. With their expertise in additive manufacturing hardware, materials science, software, and automation systems, they help businesses to embrace new manufacturing methods.

As the company rapidly expanded, they struggled with visibility and performance that affected their application delivery efficiency. Realizing they needed support with application deployment, they partnered with Enhops to identify delivery bottlenecks and implement automation to enhance their delivery operations.

Services Offered








DevOps and Continuous Testing

Challenges: Manual Deployments, Bottlenecks, and Lack of Monitoring

The client had fragmented IT systems and manual deployment processes, which slowed down their ability to respond to business needs. Performance bottlenecks and memory issues were prevalent, making it difficult to maintain stability across applications. The lack of proper monitoring and manual deployment, and the absence of centralized log management made tracking errors and real-time bugs a challenge.

During the discovery call, Enhops found out key challenges:

-  **A need for a unified deployment framework** to streamline all IT applications.
-  **Manual deployment processes** slowing down business goals.
-  **Feedback mechanism to understand root causes of** performance and memory bottlenecks at various levels.
-  **A lack of effective monitoring systems** to alert teams about IT issues.
-  **No centralized log management** to help detect errors and real-time bugs.

Solution: Comprehensive IT Transformation

Enhops took a proactive approach by diving deep into the client's existing application architecture, business needs, and user scenarios. Our experts led a thorough 6-week discovery phase and gap analysis, combining technical assessments and stakeholder interviews to fully understand the intricacies of the client's application delivery operations. This collaborative process not only helped identify pain points but also fostered a sense of ownership among the client's teams. Here's how they addressed each challenge:

- 1 Centralized Log Management and Monitoring Setup:** Enhops implemented robust monitoring protocols to keep teams informed about issues. They also took the time to understand the logical data flow, database structures, schemas, web services, protocols, thick client technology, and authentication processes.
- 2 Implementation of AWS OpenSearch Dashboard:** This powerful tool allowed for effective log management and created a pre-production environment for developers to validate new features before full deployment, ensuring everything ran smoothly.
- 3 Real-time Monitoring with Prometheus and Grafana:** By configuring these tools, Enhops enhanced visibility into resource utilization, enabling better operational insights.
- 4 CI/CD Pipeline Configuration:** Optimizing the CI/CD pipelines through GitHub Actions meant developers could frequently integrate code, quickly identify errors, and significantly speed up software release cycles.

Outcome: Achieving Business Agility and Cost Savings

The comprehensive solution implemented by Enhops led to significant advancements in operational capabilities, allowing the development team to test applications effectively, thereby supporting the product's go-to-market strategy. Additionally, a comprehensive monitoring setup was established, providing full visibility into the environment through Prometheus and Grafana.

- Strengthened Security:** The improvements made at both the server and infrastructure levels significantly reduced security risks, providing peace of mind.
- Enhanced Security Protocols:** Critical security measures, such as firewall hardening and the removal of exposed secret keys, were successfully implemented.
- Efficient CI/CD Pipeline:** The revamped pipeline allowed for the seamless release of multiple feature updates and quick reversion of changes, minimizing disruptions to production.
- Cloud Cost Savings:** By identifying and eliminating unused AWS resources, the client achieved impressive annual savings of around \$157,753, allowing them to reinvest in further innovations.

About Enhops, A ProArch Company

Enhops works at the forefront of Quality Engineering and Software Product Engineering solutions to suit the most unique business needs. Enhops was established in 2015 with a vision of driving Digital Disruption across industries through 'Quality-Engineering', 'Automation-First', and 'Smart Testing'. Our philosophy has always been to partner with our clients in their Digital Transformation journey.

Blending Enhops' Quality Engineering capabilities and ProArch's two decades of expertise in Software Product Engineering, we are a true partner who delivers value-based outcomes.

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