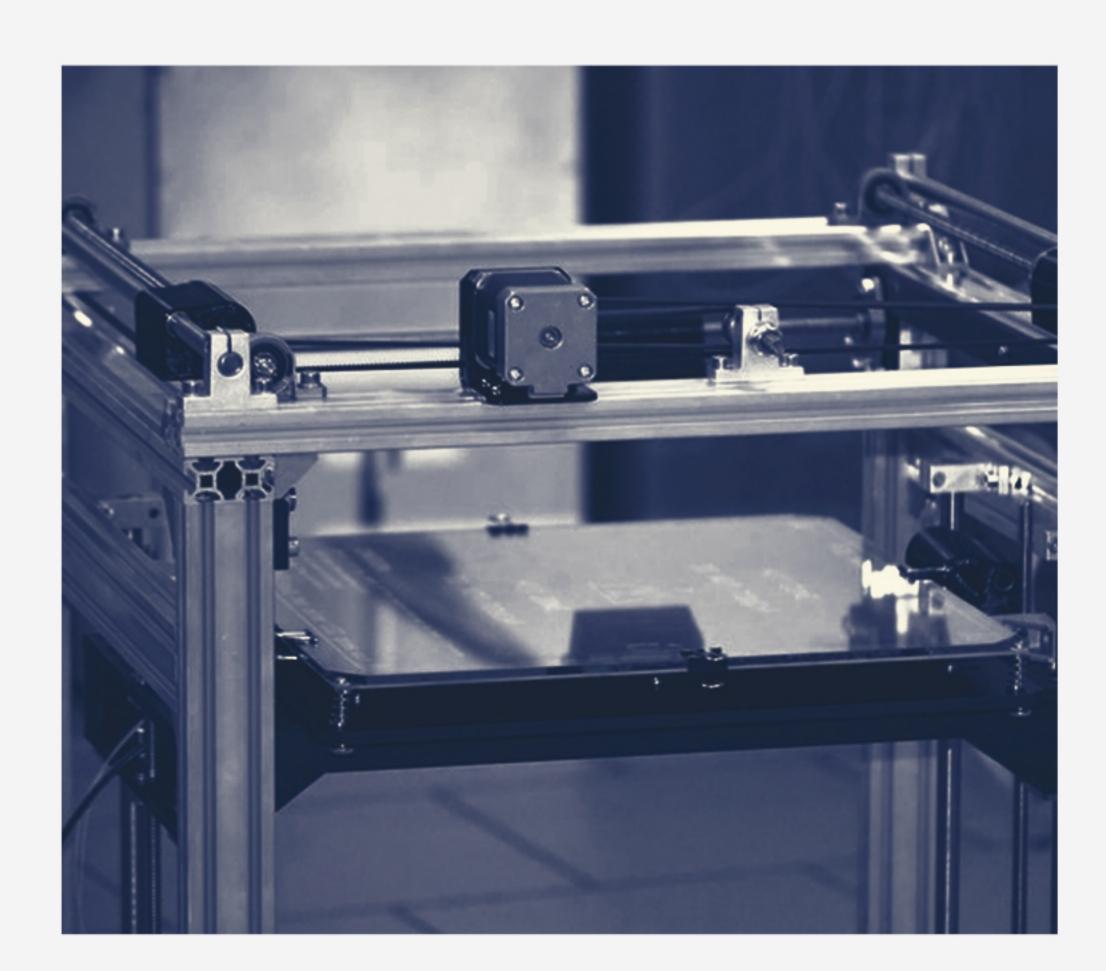
Automated manual deployment processes and aligned business agility initiatives to save the cost of around \$1,57,000 USD per annum



A Singapore based 3D Printing Solutions provider needed to improve the lack of visibility into resources coupled with multiple layers of bottlenecks in application performance.

They selected **Enhops** to identify errors, address performance bottlenecks, and implement real-time bug/issue remediation to address their performance inefficiencies and memory issues.



THE CHALLENGES

6 Key Areas of Concern

An initial assessment of the client's existing situation brought out a few challenges:



Identification of framework and creation of single framework for all the IT applications



Integration of business agility with IT agility by automating manual deployment processes



Identify root cause of performance/memory bottlenecks at multiple layers



CI/CD pipeline is not configured to deploy their application



Lack of proper monitoring setup to alert the issues that are caused in the environment



Lack of centralized log management to identify the errors and real time bugs/issues

Enhops's Solutions

4 Key Solutions

We started with understanding existing application architecture, business needs, and user scenarios.



Centralize log
management & set
up proper monitoring
to alert the issues.
Understand logical
data flow, Database
structures, schemas,
web services
protocol, thick client
technology,
authentication
process.



Implemented AWS open search dashboard for log management and set up the pre-prod environment to help developers to release the new features in pre prod first for validation.



Configured
Prometheus and
Grafana to monitor
the real-time
events in the
environment to
address the
company's minimal
visibility of the
resources.



Fixed the CI/CD pipelines configured in the GitHub actions, so developers can integrate code several times daily to detect errors faster and reduce software release cycles.

Results

4 Key Outcomes

DevOps pipeline issues resolved and the client team has been able to test frequent use-cases that have assisted the development of their product GTM. A proper monitoring setup has also been installed and Prometheus and Grafana provide them with complete visibility into their environment.



Hardened the complete environment in both server and infra level reduced the security risks.



Identified and hardened the security aspects like firewall hardening, and removing the exposed secret keys.



Configured CI/CD pipeline helped the client release multiple feature updates and revert back with minimal effort without affecting the production in case of failure.



Identified and removed unused resources from AWS which helped in saving cloud costs of \$1,57,753 USD per annum.











