



Payatu

Payatu Casestudy

Integration of DevSecOps into the CI/CD Pipeline of an Australian Fintech



Project Overview

A leading Australian cashflow funder and small business transaction financer had been in the process of revamping its software delivery pipeline, when it got in touch with Payatu. Upon discussion, it was identified that there was not just a desire to enhance automation, but also a need. This is when this insurtech organization decided to let Payatu design its DevSecOps strategy and integrate the same with automation.

The client had a problem statement that comprised of two parts – continuous development and integration of security into the CI/CD pipeline at every step of the development cycle.

Not just to enhance automation, but also to minimize mistakes and reduce the possibility of attacks, throughout the software delivery pipeline, DevSecOps is a great way to reduce downtime.

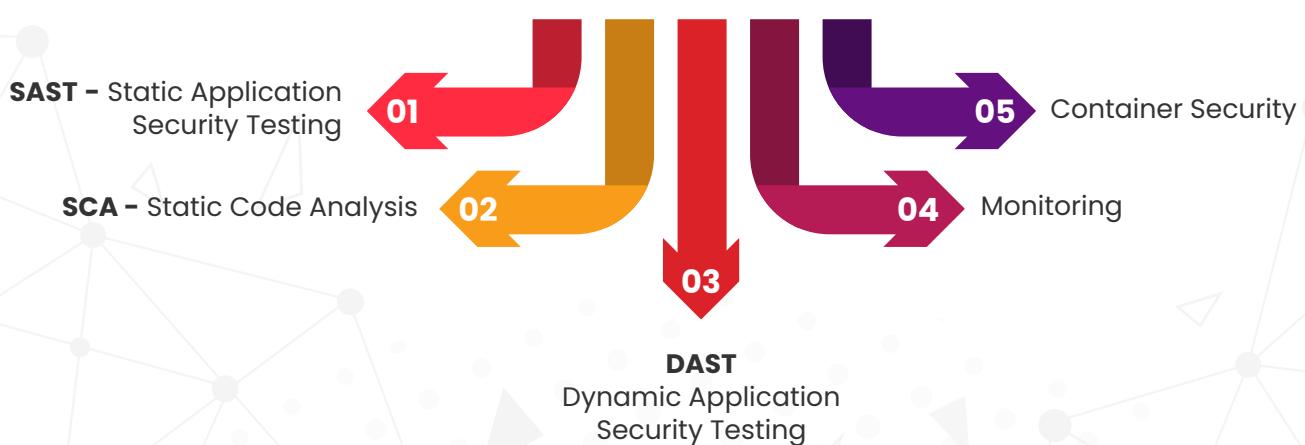
Think of DevSecOps as the perfect combo of automation + security throughout the application lifecycle.

The Scope

LONG-TERM GOALS

- 01 Faster deployment of new versions
- 02 Security and monitoring starting from the very beginning
- 03 Deployment status checks and notifications for continuous monitoring
- 04 Secure design with the ability to measure
- 05 Faster recovery in case of any security incidents
- 06 Improvement in the overall security by enabling infrastructure as code (IaC) along with security automation

SHORT-TERM GOALS



CHALLENGES

- ① Difficulty in finding tools that could integrate with the SCM (Source Code Management) tool used by the client
- ② Budget constraints for the tools to be used
- ③ Identifying open-source tools that would work best for the client

PROCESS

- 1 Understand the client's requirements and expectations
- 2 Assess its existing infrastructure and the DevSecOps process in place
- 3 Evaluate the technology stack used for development
- 4 Walkthrough of the client's application
- 5 Bifurcation of the process
- 6 Research available tools in each category
- 7 Setup the code base and run the tool
- 8 Develop a detailed comparison report of the tools available
- 9 Get quotes for each tool from its vendor (if it is a commercial tool)
- 10 Get demo sessions or trial licenses for the selected tools
- 11 Test the tools on dummy pipelines for POC
- 12 Develop a report of recommendations consisting of the selected tools

Recommendations

Utilizing our vast experience and expertise in the cybersecurity sector, we were able to make certain actionable recommendations that would help our client in safeguarding their assets and critical information.

- Controls to be added to the DevSecOps (CI/CD) pipeline along with best practices to be followed during their Secure SDLC model
- Tools to be configured in order to improve their overall devsecops pipeline /process

About Payatu

Payatu is a Research-powered cybersecurity services and training company specialized in IoT, Embedded Web, Mobile, Cloud, & Infrastructure security assessments with a proven track record of securing software, hardware and infrastructure for customers across 20+ countries.



Web Security Testing

Internet attackers are everywhere. Sometimes they are evident. Many times, they are undetectable. Their motive is to attack web applications every day, stealing personal information and user data. With Payatu, you can spot complex vulnerabilities that are easy to miss and guard your website and user's data against cyberattacks.



Product Security

Save time while still delivering a secure end-product with Payatu. Make sure that each component maintains a uniform level of security so that all the components "fit" together in your mega-product.



Mobile Security Testing

Detect complex vulnerabilities & security loopholes. Guard your mobile application and user's data against cyberattacks, by having Payatu test the security of your mobile application.



Cloud Security Assessment

As long as cloud servers live on, the need to protect them will not diminish. Both cloud providers and users have a shared responsibility to secure the information stored in their cloud. Payatu's expertise in cloud protection helps you with the same. Its layered security review enables you to mitigate this by building scalable and secure applications & identifying potential vulnerabilities in your cloud environment.



Code Review ↗

Payatu's Secure Code Review includes inspecting, scanning and evaluating source code for defects and weaknesses. It includes the best secure coding practices that apply security consideration and defend the software from attacks.



Red Team Assessment ↗

Red Team Assessment is a goal-directed, multidimensional & malicious threat emulation. Payatu uses offensive tactics, techniques, and procedures to access an organization's crown jewels and test its readiness to detect and withstand a targeted attack.

More Services Offered by Payatu

- IoT Security Testing ↗
- AI/ML Security Audit ↗
- DevSecOps Consulting ↗
- Critical Infrastructure ↗
- Trainings ↗

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