

## ABSTRACT

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*Klod.id, a Software as a Service (SaaS) application, faces challenges in developing its products and services in the ever-evolving era of cloud technology. To address these challenges, Klod.id has adopted an efficient and effective approach to its product development by implementing an automated CI/CD system and applying DevOps methodologies. The automated CI/CD system and DevOps methods play a crucial role in making Klod.id an efficient and reliable SaaS platform. Monitoring and analysis are utilized to enhance efficiency and effectiveness during the product development stages at Klod.id, while also reducing operational costs in the DevOps division. The key to the success of this approach lies in focusing on the development of Klod.id's Back-End Services, with minimal changes to the Front-End, with the goal of accelerating the overall product development process and achieving faster and higher-quality development outcomes. With this approach, Klod.id is prepared to face the ever-changing landscape of technology and provide superior services to its SaaS users.*

*Keywords: DevOps, CI/CD, Automation, Software as a Service (SaaS), Back-End Service*