Advancements in Cloud Computing for Scalable Web Development: Security Challenges and Performance Optimization

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Abstract: *The integration of cloud computing in web development has significantly enhanced performance and scalability. However, this advancement introduces critical security challenges that need to be addressed for robust and secure applications. This review examines the current state of cloud-based web development, focusing on strategies for optimizing performance and scalability. It also delves into prevalent security issues, such as data breaches and unauthorized access, proposing effective solutions to mitigate risks. By balancing performance optimization with stringent security measures. In Summary, as cloud computing offers scalable solutions for web development, it also represents challenges in security and optimization. Addressing these issues requires a multifaceted approach, including the implementation of advanced security measures and the continuous evolution of cloud infrastructure to support emerging technologies.*

Keywords: Cloud computing, web development, serverless computing, performance optimization, scalability, security challenges, data breaches, unauthorized access, advanced security measures

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562

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