

Report on Challenges Faced
on
***“DDOS Prevention System using AWS
Serverless-Architecture”***

Submitted to
Vishwakarma University, Pune
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For The Award of Degree

Bachelor of Technology (Computer Engineering)

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Mentioned below are some of the challenges we faced in the creation and implementation process of this Project -

1. Complexity of DDOS Attacks: Dealing with the ever-evolving nature of DDOS attacks, which can include various attack vectors, makes it challenging to cover all possible attack scenarios.
2. False Positives: Implementing DDOS prevention strategies may inadvertently block legitimate traffic, leading to false positives and affecting user experience.
3. Lambda Cold Starts: AWS Lambda functions might experience cold starts, affecting response times during sudden traffic surges. Managing cold starts to minimize latency can be challenging.
4. Anomaly Detection Accuracy: Developing accurate anomaly detection algorithms that can differentiate between legitimate traffic spikes and actual attack patterns can be a nuanced task.
5. Cost Management: While serverless architectures offer cost benefits, maintaining a balance between security measures and cost optimization can be difficult.
6. Monitoring and Alerting: Designing an effective monitoring and alerting system that notifies you of potential threats without overwhelming you with false alerts is a challenge.