Challenges for Microservice Architectures under Distributed Denial of Service Attacks

Description

Distributed denial of service (DDoS) attacks try to make systems less or even unavailable for its regular purpose by overloading the target systems with requests from many distributed sources. The microservice architectural style stands for using small applications based on cloud technologies that are interconnected to build up to a complex application.

While DDoS attacks are no new kind of attacks, they become a bigger threat due to the Internet of things (IoT) trend which lead to many small devices connected to the Internet. As these devices have many attack surfaces in terms of security, they can easily become part of bot networks used for DDoS attacks.

After an introduction to DDoS and microservices the aim of the seminar paper is to elaborate on attacks and mitigation techniques that are relevant for microservice architectures.

The provided references are to be considered a starting point and it is expected to extend the literature.

References


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