Detection of DDoS attack on Cloud using Machine Learning.

**ABSTRACT:**

Cloud computing is blooming technology and adopted by many companies. But there are many issues and one of them is DDOS. It can effect organizations depending on cloud for their business. This paper explains DDoS attack, its effect in cloud computing and things needs to be considered while selecting defence mechanisms for DDoS.

We make an effort to identify the spots of these effects and their origins like auto-scaling, multi-tenancy and accounting in cloud. We argue that there is an immense need to re-look at DDoS solutions in the cloud space in which efforts are needed to minimize these effects. We propose a DDOS attack detection system on the source side in the cloud, based on machine learning techniques. This system leverages statistical information from both the cloud server’s hypervisor and the virtual machines, to prevent network packages from being sent out to the outside network.

Our project aims to detect the various types of DDoS attacks on Cloud using machine learning algorithms and increase the accuracy for the detection.

**Keywords:**

* DoS
* DDoS
* Machine Learning
* Cloud Computing
* WEKA Tool

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