## Rate himiting

Rote himiting is the out of limiting the number of operations that can be performed in a given amount of time Rate himiting is done to improve the security and the performance.

Rote himiting can be used to prevent DoS attacks

## Dos Attack

Demal of securice attack is an attack in which a malacious user thies to being down or slamage a system (by flooding the system with teraffic) invariables to surveler it unavoidable to the users

Not all DOS attacks can be prevented using Rate himiting => Eq: DDoS Attack

## DDOS Attack

Distance in which the teaffic flooding the toaget system comes for many different sources, making it much horder to defend against

## Design

When clients issue request to the seawer,
the seewer would go and check in the
Redis that if the acquest is fine from the
Protes limiting point, If yes, the seawer would
perocess the request else it will thorow
essor.

