

## **Abstract**

**Load balancing based on agents is one of effective method that use agent to observe server resource rather than least traffic calculation, therefore server's performance can be maintained. Software agent is a program that works in the name of user where in this paper multiple agents will work as an auto scaling that already filled with scripts to perform certain action in AWS. Auto scaling with alarms monitor CPU utility when received requests from client. If CPU utilization's graph from that server exceed the threshold then it will be replaced and load balancer will move the rest of the workload to another server within the auto scaling group.**

**Keywords: agent, workload, load balancer, CPU utility, cloudwatch, AWS, auto scaling**