

ABSTRACT

Work consists of 101 pages, 44 images and 2 tables. It has 15 literature sources used as well.

Goal: development of load balancing algorithm for the network based on cloud infrastructure.

Object of research: means of load balancing improvement for the network based on cloud infrastructure.

Subject of the study: usage of literature sources and emulators of mobile networks based on cloud infrastructure for development and evaluation of suggested load balancing algorithm.

The goal of the project is an improvement of load balancing in mobile network base on cloud infrastructure by development of new and improved load balancing algorithm which takes into account capabilities of every virtual machine, involved in request execution, which are sent to the network from users. The result of this development will be an increase of request execution speed by the mean of rational usage of virtual machine resources.

Key words: Mobile network, cloud, load balancing, algorithm, virtual machine, cloud infrastructures.