

E. D. Rodionycheva, A. S. Golubev

Ivanovo State University, School of Economics

1<sup>st</sup> year Master in Applied Computer Science in Analytical Economics

## PROTECTION OF CLOUD INFRASTRUCTURE OBJECTS IN BANKING AND HEALTHCARE



Cloud technologies are already used in many areas thanks to:

- profitability;
- ease of deployment;
- multi-user architecture;
- use of information services:
  - storage;
  - search;
  - transfer of information.

This research focuses on the protection of cloud infrastructure object in banking and healthcare.

The protection of information is based on:



### What includes the private cloud?


- information infrastructure;
- server hardware;
- telecommunications infrastructure;
- engineering infrastructure.



Suitable for healthcare and banking

### Why?

It provides high data security

 The high cost of hardware for building your own cloud



The availability of information stored and processed in it for all users who have access to the cloud from any point where the Internet connection is available and from any device on which the browser is installed.



## What measures are used to protect information in private cloud?

- encryption;
- authentication;
- data protection during transmission;
- user isolation.

To secure data processing, you must encrypt data during storage and encrypt it through a (virtual private network) VPN tunnel transmission that connects the client and server. Encrypted data during transmission is only available after authentication. Such data cannot be read or changed, even if it is accessed through untrusted nodes.

