**Report by network security**

To fulfil our project, we have to install 3 virtual machines, which has a distributive called Ubuntu or another distributive Linux.

Our group chose Ubuntu as main operating system. Our task is to create a connection between a server and client using DNS tunnel.

As I wrote above, we will have 3 VMs, which will communicate each other. One of the VMs will performs a DNS server’s role. To do that, we have rented a server, which has a public IP address and, we have bought a domain name.

Text

Description automatically generated

As we can see our server has really public IP address, it means anybody can knock to its server from network, it simplifies to set up a DNS server since it doesn’t have to solve a problem with a private IP address, because every local computer has a private IP address. That’s why we have rented a server, it will be our DNS server. Our client will be created via Timofey’s local computer.

We have bought a domain name “timofeydankevich.com”, it can see settings of our domain name below.

Graphical user interface, text, application

Description automatically generated

We clarified the following lines, such as:

A is also known as a DNS host record, stores a hostname and its corresponding IPv4 address. We specified on our server that it has a hostname called “h.timofeydankevich.com”.

A picture containing shape

Description automatically generated

After that, we wrote that if someone refers to our name server or our hostname, then it must move on server’s IP address.