

Hacettepe University
Department of Computer Engineering
BBM465 Information Security Laboratory
Experiment 5

Subject: VPNs
Due Date: 7/1/2020 - 23:59

1 Aim

In this experiment, you are supposed to create a VPN based connection which enables client machine to access Internet via the server device over a configured VPN connection. In order to achieve this aim, your first duty is to install "openvpn" software on a Ubuntu based server computer. Next, you must install "tunnelblick" into a Ubuntu based client computer. After having configured, the client must connect to the server and access to Internet via the server device.

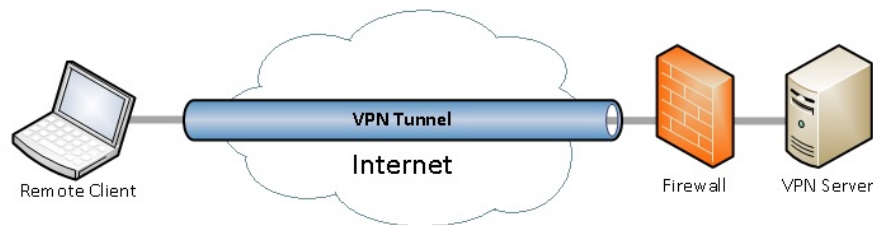


Figure 1: A schematic representation of tunnelling over VPN

In this regard, your evaluation will be based on presenting the running system environment along with a detailed report. To create an appropriate report,

please explain every line/details you made during the configuration stages for both client and server.

2 Notes

1. You need to submit a detailed lab report (i.e report.pdf) to describe what you have done and throughout the homework.
2. You can ask questions about the experiment via Piazza group (piazza.com/hacettepe.edu.tr/fall2019/bbm465).
3. Late submission will not be accepted!
4. You are going to submit your experiment to online submission system:
`www.submit.cs.hacettepe.edu.tr`

The submission format is given below:

```
<bxxxx id>.zip
-conf/
    server_conf/
        -exp files
    client_conf/
        -exp files
-report/
    report.pdf
```

3 Policy

All work on assignments must be done with your own group unless stated otherwise. You are encouraged to discuss with your classmates about the given assignments, but these discussions should be carried out in an abstract way. That is, discussions related to a particular solution to a specific problem (either in actual code or in the pseudocode) will not be tolerated. In short, turning in someone else's work(from internet), in whole or in part, as your own will be considered as a violation of academic integrity. Please note that the former condition also holds for the material found on the web as everything on the web has been written by someone else.

The content of this assignment can be partially changed by the instructor. However, all modifications will be reported into the Piazza system. Therefore, do not forget to keep an eye on Piazza for potential changes.