Министерство образования и науки Российской Федерации

Федеральное государственное автономное образовательное учреждение высшего образования

**НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**



Факультет Безопасных Информационных Технологий

Управление мобильными устройствами

**Лабораторная работа №2**

**«Обработка и тарификация трафика NetFlow»**

**Выполнил:**

студент группы N3349

Ляховенко Ю.А.

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**Проверил:**

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Санкт-Петербург

2020

**Цель работы**

Изучить протокол NetFlow, а также обработать трафик NetFlow v5 из файла nfcapd.202002251200.

В качестве результата работы необходимо представить программный модуль для обработки, просмотра статистики (график) и тарификации трафика NetFlow.

**Описание выбранного средства реализации и обоснование выбора**

Мною был выбран высокоуровневый язык программирования Python, так как задачи, поставленные в лабораторной работе, легкореализуемы на этом ЯП.

**Вариант №14**

**Исходный код:**

import csv

import matplotlib.pyplot as plt

list\_1 = []

with open('dataset.csv') as data\_file:

    reader = csv.reader(data\_file)

    for a in reader:

        list\_1.append(a)

k = 0.5

limit = 1000

address = '192.168.250.39'

Q = 0.0

x = []

y = []

for i in range(17449):

    if address in list\_1[i][3]:

        Q += float(list\_1[i][12])

        x.append(float(list\_1[i][2]))

        y.append(float(list\_1[i][12]))

Q -= 1000

X = Q\*k

out = open('output.txt', 'w')

print(X, file = out)

data\_file.close

out.close

x.sort()

y.sort()

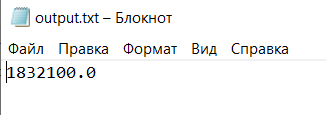
assert len(x) == len (y)

plt.plot(x, y)

plt.grid(True)

plt.show()

**Результат работы программы:**



**![Изображение выглядит как текст, карта

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4REERXhpZgAATU0AKgAAAAgABAE7AAIAAAATAAAISodpAAQAAAABAAAIXpydAAEAAAAmAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFl1bGl5YSBMeWFraG92ZW5rbwAAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzQ5AACSkgACAAAAAzQ5AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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wJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9y8B/wDJOPDf/YJtf/RK1v1geA/+SceG/wDsE2v/AKJWrmt3NxDZOlrPHZs8blr2ZcpbADG7ngtkjAYgY3E524IBp0VwemzvBdXM2v2sN7e2qrJZxlBNMm6U5ZJMFjGPMjweoXkjPFdNpr3cJtxLFN5Fwv8Aq5X8yS1fbnaWGcrw3JYkNgZIYBZhOM1oOcXCVn/VzWorK8Qa8nh+zt5msbq/kublLaG3tPL3u7ZxzI6qBwepp9nql3cx2rTaFqFmZ3ZZFmktybcAZDPslYEN0G3ceeQKpai2NKiiigAooooAKKwtT8ZaRpXiOw0KeSaTUL6RUSOGFmWPcHKl3+6ufLfAJycHAIBxu0bq4bOwUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRXNzeLp/7X1Gw03wxrGp/2dMsE89s9oke9oklwPNnRjhZV5xjNEPi6f8AtfTrDUvDGsaZ/aMzQQT3L2jx71ieXB8qd2GVibnGM0AdJRRRQAUUUUAFFFZ2t63beH7JL3UEm+yeaEnnjUFbZSD+8k5yEBABYA4zk4UMwANGiqOq6xY6NpUmo6hOEtkAwVBYuScKqKOWZiQAoySSAKs2k7XNnDPJby2zyxq7QTbd8RIztbaSMjocEj0JoAlooooAwPAf/JOPDf8A2CbX/wBErU2oWcB1tJLi5mjFzGiKisApMXmHHJ5JEpbAHSIntUPgP/knHhv/ALBNr/6JWtq5toru2eCdSyOMHDFSPQgjkEHkEcgjIpOKlFxlsw1Tut0ea3HgvUIfF+masz/bCl1cSRwoRGsSDLxg7VUuW5ySfvOMhgCG6mz12z8UW0FvG0treC4R5bY48yLypA5LKcHaSgXOOC+CAwIGx9mv454PJvomgUkyia33SSZJPDKyqPT7pp9jpsFg88keXnuGVppnxukKqFGcAAAAAYAA6nqSSRgoWUdl0Btyvc534gwSXVpocEF3NZyPrNuFuIAheM4bkB1Zc/UGotQtrmx8WeFYZL6fUrhEvsXF0I1eQ+WCM+Wir7cKOB+NdlRSt7rXd3/BL9A6p/1u/wDM8QsD4Yk0zwlIgh/4S/8Ata0/tbb/AMfgm3/vRc/xbd+cb/lzs29q0LrWtPttHm0Ga5UasPGCSNY9ZUjfUVkWRl6iMqykOflJYDOSBXoEXhVn1WC91XXdT1VLaUzW9rdCBIopMEBsRRIWIBIG4sBnOMgEb9aRdrPzv/6Tp+APd/1/N/meQ3+ltD4N8UavpMCpqT6zPDcXwgaWWKz+1AzKoQh9mwMxVSCeSMHmt74b2GmQalqVxoOu+H760kiiWS18O2P2e2icFsOQJpF8wjg4wcKue1egUVMfdSXkl+Fv+D6hLV/Nv8bnI+Of+Qr4O/7D6f8ApPPXXUUULRW87/gl+gPV38rfi3+oUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFc3/wAIvq//AEPfiD/vxp//AMi10lFAGbpGl3em+d9s13UNX8zbt+2x26+VjOdvkxJ1zznPQYxznSoooAKKKKACiiigDm/C/wDyMXjP/sNR/wDpvs6PFH/IxeDP+w1J/wCm+8qzqHgrwrq9/Jfar4a0e+u5ceZcXNhFJI+AAMsyknAAH0FGn+CvCukX8d9pXhrR7G7iz5dxbWEUciZBBwyqCMgkfQ0AbdFFFABRRRQAVR1jVbHRtKmvdUkCWyAKRtLFyTgIqjlmYkAKASSQBV6op7S3uZIHuYIpXt5PNhaRAxifaV3LnodrMMjsSO9AHmGl6Xd+FdRtte8SWrR+HYyxsbAyeYPDgbje2OGUgkFhkQAlV/d7mHqasGUMpBUjIIPWhlDKVYAqRggjrTLa2gs7WK1s4Y4LeFBHFFEgVI1AwFUDgAAYAFAElFFFAGB4D/5Jx4b/AOwTa/8Aola36wPAf/JOPDf/AGCbX/0Stb9ABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACMwQZOfwBP8AKmecvo//AH7b/CpKKAI/OX0f/v23+FHnL6P/AN+2/wAKkooAj85fR/8Av23+FHnL6P8A9+2/wqSigCPzl9H/AO/bf4Uecvo//ftv8KkooAj85fR/+/bf4Uecvo//AH7b/CpKKAI/OX0f/v23+FHnL6P/AN+2/wAKkooAj85fR/8Av23+FHnL6P8A9+2/wqSigCPzl9H/AO/bf4Uecvo//ftv8KkooAj85fR/+/bf4Uecvo//AH7b/CpKKAI/OX0f/v23+FHnL6P/AN+2/wAKkooAj85fR/8Av23+FHnL6P8A9+2/wqSigCPzl9H/AO/bf4Uecvo//ftv8KkooAj85fR/+/bf4Uecvo//AH7b/CpKKAI/OX0f/v23+FHnL6P/AN+2/wAKkooAj85fR/8Av23+FHnL6P8A9+2/wqSigCPzl9H/AO/bf4Uecvo//ftv8KkooAj85fR/+/bf4Uecvo//AH7b/CpKKAI/OX0f/v23+FHnL6P/AN+2/wAKkooAj85fR/8Av23+FHnL6P8A9+2/wqSigCPzl9H/AO/bf4Uecvo//ftv8KkooAj85fR/+/bf4Uecvo//AH7b/CpKKAI/OX0f/v23+FHnL6P/AN+2/wAKkooAj85fR/8Av23+FHnL6P8A9+2/wqSigCPzl9H/AO/bf4Uecvo//ftv8KkooAj85fR/+/bf4Uecvo//AH7b/CpKKAI/OX0f/v23+FHnL6P/AN+2/wAKkooAj85fR/8Av23+FHnL6P8A9+2/wqSigCPzl9H/AO/bf4Uecvo//ftv8KkooAj85fR/+/bf4Uecvo//AH7b/CpKKAI/OX0f/v23+FHnL6P/AN+2/wAKkooAj85fR/8Av23+FHnL6P8A9+2/wqSigCPzl9H/AO/bf4Uecvo//ftv8KkooAj85fR/+/bf4Uecvo//AH7b/CpKKAI/OX0f/v23+FHnL6P/AN+2/wAKkooAwPAf/JOPDf8A2CbX/wBErW/WB4D/AOSceG/+wTa/+iVrfoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMDwH/wAk48N/9gm1/wDRK1v1geA/+SceG/8AsE2v/ola36ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDA8B/wDJOPDf/YJtf/RK1v1geA/+SceG/wDsE2v/AKJWt+gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAwPAf/JOPDf/AGCbX/0Stb9YHgP/AJJx4b/7BNr/AOiVrfoAKKKKACiiigAooooAKKKKACiiigAorL13xLpHhm1iuNdvY7OKaTy0aTPzNgnH5A1i/wDC1PBf/Qet/wDvlv8ACgDrqK5H/hangv8A6D1v/wB8t/hR/wALU8F/9B63/wC+W/woA66iuQHxV8FHpr9vx14b/Cl/4Wp4L/6D1v8A98t/hQB11Fcj/wALU8F/9B63/wC+W/wo/wCFqeC/+g9b/wDfLf4UAdd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**Вывод**

Выполняя лабораторную работу, я изучила протокол NetFlow, а также научилась обрабатывать трафик NetFlow v5.