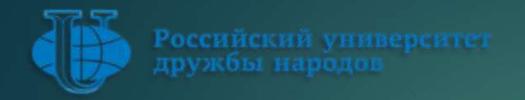


Лабораторная работа №3

АНАЛИЗ ТРАФИКА В WIRESHARK





- > Титульная страница
- > Структура
- > Представление выступающего
- > Прагматика
- > Цель выполнения лаб. работы
- > Задача выполнения лаб. работы
- > Результат выполнения лаб. работы



Российский университет дружбы народов

Выполнил: Юсупов Шухратджон Фирдавсович

Факультет: Физико-математических и естественных наук

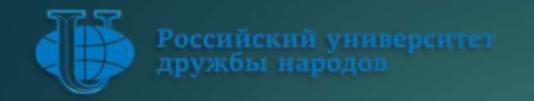
Направление: Прикладная информатика (09.03.03)

Группа: НПИбд-02-20

Ст. Номер: 1032205329

Почта Outlook: 1032205329@rudn.ru





Цель:

Изучение посредством Wireshark кадров Ethernet, анализ PDU протоколов транспортного и прикладного уровней стека TCP/IP.



```
5
```

```
C:\Users\user>ipconfig
Настройка протокола IP для Windows
Адаптер беспроводной локальной сети Подключение по локальной сети* 1:
  Состояние среды. . . . . . : Среда передачи недоступна.
  DNS-суффикс подключения . . . . . :
Адаптер беспроводной локальной сети Подключение по локальной сети* 2:
  Состояние среды. . . . . . : Среда дередачи недоступна.
  DNS-суффикс подключения . . . . . :
Адаптер беспроводной локальной сети Беспроводная сеть:
  DNS-суффикс подключения . . . . . :
  Локальный IPv6-адрес канала . . . : fe80::10b2:f593:3336:c7cd%17
  IPv4-адрес. . . . . . . . . . : 172.16.16.138
  Основной шлюз. . . . . . . . : 172.16.16.1
C:\Users\user>_
```

```
C:\Users\user>ping 172.16.16.1

D6мен пакетами с 172.16.16.1 по с 32 байтами данных:
Dтвет от 172.16.16.1: число байт=32 время=8мс TTL=254

Dтвет от 172.16.16.1: число байт=32 время=2мс TTL=254

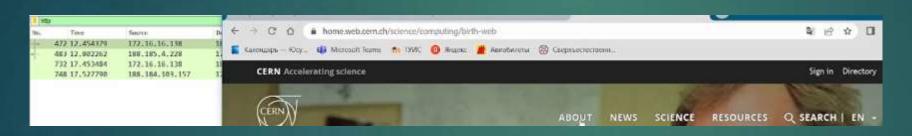
Статистика Ping для 172.16.16.1:
Пакетов: отправлено = 4, получено = 4, потеряно = 0

(0% потерь)

Приблизительное время приема-передачи в мс:
Минимальное = 2мсек, Максимальное = 8 мсек, Среднее = 3 мсек

С:\Users\user>
```

arp or icmp											
No.	Time	Source	Destination	Protocol	Length Info						
11	89 22.959238	172.16.16.1	172.16.16.138	ICV5	74 Echo (ping) reply id=0x0001, seq=7/1792, ttl=254 (request in 1188)						
12	61 23.969940	172.16.16.138	172.16.16.1	ICMP	74 Echo (ping) request id=0x0001, seq=8/2048, ttl=128 (reply in 1262)						
12	62 23.972720	172.16.16.1	172.16.16.138	ICMP	74 Echo (ping) reply id 0x0001, seq 8/2048, ttl=254 (request in 1261)						
13	48 26.318852	Cisco_60:9c:c5	Broadcast	ARP	60 Who has 172.16.16.250? Tell 172.16.16.1						
15	28 30.008145	Apple_e3:a1:9c	Broadcast	ARP	60 Who has 172.16.17.5? Tell 172.16.16.42						
15	29 30.008145	IntelCor_e6:91:aa	Broadcast	ARP	60 Who has 172.16.16.1? Tell 172.16.16.68						



II dns											
Time	Source	Destination	Protocol L	ength Info							
555 15.158457	Tp-LinkT 59:88:6e	Broadcast	ARP	60 Who has 1	72.16.16.140?	Tell 17	72.16.16.240				
6 15.158457	∠ Wireshark - Пакет 562 - Беспроводная сеть										
557 15.158457											
558 15.158457	✓ Frame 562: 65 bytes on wire (520 bits), 65 bytes captured (520 bits) on interface \Device\NPF_{										
559 15.158457											
560 15.158457											
561 15.257663											
562 15.258631	[Time shift for this packet: 0.000000000 seconds]										
563 15.258631	Epoch Time:	1664042748.982730	000 seconds								
[Time delta from previous captured frame: 0.000968000 seconds]											
565 15.369343	[Time delta	from previous dis	played frame: 0	.000968000 sec	onds]						
566 15.371285	[Time since	reference or firs	t frame: 15.258	631000 seconds]						
567 15.371285	Frame Number	: 562									
	Time 555 15.158457 556 15.158457 557 15.158457 558 15.158457 559 15.158457 560 15.158457 561 15.257663 562 15.258631 563 15.258631 564 15.369343 566 15.371285	Time Source Tp-LinkT 59:88:6e Discrete Section 15.158457 Discrete Section 15.15845	Time Source Destination Tp-LinkT 59:88:6e Broadcast Destination Tp-LinkT 59:88:6e Broadcast Wireshark · Пакет 562 · Беспроводная сеть Wireshark · Пакет 562 · Беспроводная сеть Frame 562: 65 bytes on wire (526) Interface id: 0 (\Device\NPF Encapsulation type: Ethernet Arrival Time: Sep 24, 2022 23 [Time shift for this packet: Epoch Time: 1664042748.982736 [Time delta from previous cap [Time delta from previous dis [Time since reference or firs	Тите Source Destination Protocol L 555 15.158457 556 15.158457 557 15.158457 558 15.158457 559 15.158457 560 15.158457 561 15.257663 562 15.258631 563 15.258631 564 15.369192 565 15.369343 566 15.371285 567 15.371285 567 15.158457 570 15.158457 580 15.158457 580 15.158457 580 15.158457 580 15.158457 581 15.257663 582 15.258631 583 15.258631 584 15.369192 585 15.369343 585 15.369343 586 15.371285 586 15.371285 587 15.371285 587 15.158457 □ Wireshark · Flaxer 562 · Becnpoводная сеть □ (\Device\NPF {FDE10038-B853-Becnposode of the composition of	Time Source Destination Protocol Length Info Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 1 Б55 15.158457 Б57 15.158457 Б58 15.158457 Б58 15.158457 Б60 15.158457 Б61 15.257663 Б62 15.258631 Б63 15.258631 Б63 15.369192 Б65 15.369343 Б66 15.371285 Б67 15.371285 Б67 15.371285 Б67 15.371285 Б67 15.371285	Time Source Destination Protocol Length Info Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? 556 15.158457 557 15.158457 558 15.158457 559 15.158457 560 15.158457 560 15.158457 561 15.257663 562 15.258631 563 15.258631 564 15.369192 565 15.369343 566 15.371285 567 15.371285 567 15.371285 577 15.158457 588 15.158457 589 15.158457 580	Time Source Destination Protocol Length Info Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 555 15.158457 557 15.158457 558 15.158457 559 15.158457 560 15.158457 561 15.257663 562 15.258631 563 15.258631 564 15.369192 565 15.369343 566 15.371285 567 15.371285 Trame Source Destination Protocol Length Info Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16.140? Tell 17 Tp-LinkT 59:88:6e Broadcast ARP 60 Who has 172.16.16 Tp-LinkT 59:8:6e Broadcast ARP 60 Who has				