课程实习报告 (2022-2023-02)

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July 7, 2023

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1	Packet analysis	
	Upon running the following command:	
1	sudo tcpdump -ilo -nnvvvxXKS -s0 port 3333	
	the following packet is captured:	
08	:34:10.790666 IP (tos 0x0, ttl 64, id 12824, offset 0, flags [DF], proto TCP (6),	
le	ngth 64)	
	127.0.0.1.46668 > 127.0.0.1.3333: Flags [P.], seq 2400005725:2400005737, ack 3732793	396,
	win 512, options [nop,nop,TS val 3259949783 ecr 3259896343], length 12	
	0x0000: 4500 0040 3218 4000 4006 0a9e 7f00 0001 E@2.@.@	
	0x0010: 7f00 0001 b64c 0d05 8f0d 2e5d 163f caa4L].?	
	0x0020: 8018 0200 fe34 0000 0101 080a c24e e2d74N	
	0x0030: c24e 1217 6865 6c6c 6f20 776f 726c 640a .Nhello.world.	
	1. Tell me the meaning of each option used in the previous command.	
	• -i:	
	• -nn:	
	• -vvv:	
	• -x:	
	• -X:	

- -S:
- -K:
- -s0:
- 2. Please analyze this captured packet and explain it to me as detailed as you can.

Answer

2 HTTP

1. Write a simple script showing how HTTP works (you need curl);

```
#!/bin/bash
```

2. Record your HTTP demo session with ttyrec.

3 Questions

List at least 5 problems you've met while doing this work. When listing your problems, you have to tell me:

- 1. Description of this problem. For example,
 - What were you trying to do before seeing this problem?
- 2. How did you try solving this problem? For example,
 - Did you google? web links?
 - Did you read the man page?
 - Did you ask others for hints?

3.1 Problems

- 1.
- 2.
- 3.
- 4.
- 5.