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Department of Computer Science and Engineering

UE17CS304

Computer Networks Laboratory

# Lab Report

## Week 6

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Semester 5 | Section 'C' | Number 22

# Screenshots

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help						
dns						
No.	Time	Source	Destination	Protocol	Length	Info
185	4.531642839	10.1.10.147	10.1.10.35	DNS	78	Standard query 0x7548 A www.flipkart.com
188	4.808940202	10.1.10.35	10.1.10.147	DNS	237	Standard query response 0x7548 A www.flipkart.com CNAME flipkart.com A 163.53.78.128 NS ...
361	7.299470973	10.1.10.147	10.1.10.35	DNS	89	Standard query 0x73de A googleads.g.doubleclick.net
362	7.309999432	10.1.10.147	10.1.10.35	DNS	78	Standard query 0xb551 A www.facebook.com
363	7.301968460	10.1.10.147	10.1.10.35	DNS	87	Standard query 0x3946 A flipkart.d1.sc.omtrdc.net
408	7.690631672	10.1.10.35	10.1.10.147	DNS	212	Standard query response 0x73de A googleads.g.doubleclick.net CNAME pagead46.l.doublecl...
442	7.621696157	10.1.10.35	10.1.10.147	DNS	139	Standard query response 0x3946 A flipkart.d1.sc.omtrdc.net A 172.82.241.224 NS ns1.omtrd...
460	7.836283787	10.1.10.35	10.1.10.147	DNS	158	Standard query response 0xb551 A www.facebook.com CNAME star-mini.c10r.facebook.com A 15...
Frame 185: 78 bytes on wire (624 bits), 78 bytes captured (624 bits) on interface 0						
Linux cooked capture						
Internet Protocol Version 4, Src: 10.1.10.147, Dst: 10.1.10.35						
User Datagram Protocol, Src Port: 55565, Dst Port: 53						
Domain Name System (query)						
0000 00 04 00 01 00 06 b8 ae ed a5 a7 03 00 00 08 00 .....E...@.A7....						
0010 45 00 00 3e b3 c0 40 00 40 11 5e 37 0a 01 0a 93 E...@.A7....						
any: <live capture in progress>						
Packets: 1098 · Displayed: 8 (0.7%)					Profile: Default	

```
64 bytes from 10.1.10.35: icmp_seq=13 ttl=64 time=0.182 ms
64 bytes from 10.1.10.35: icmp_seq=14 ttl=64 time=0.141 ms
64 bytes from 10.1.10.35: icmp_seq=15 ttl=64 time=0.166 ms
64 bytes from 10.1.10.35: icmp_seq=16 ttl=64 time=0.180 ms
64 bytes from 10.1.10.35: icmp_seq=17 ttl=64 time=0.171 ms
64 bytes from 10.1.10.35: icmp_seq=18 ttl=64 time=0.171 ms
64 bytes from 10.1.10.35: icmp_seq=19 ttl=64 time=0.172 ms
64 bytes from 10.1.10.35: icmp_seq=20 ttl=64 time=0.163 ms
64 bytes from 10.1.10.35: icmp_seq=21 ttl=64 time=0.126 ms
^C
--- 10.1.10.35 ping statistics ---
21 packets transmitted, 21 received, 0% packet loss, time 19998ms
rtt min/avg/max/mdev = 0.081/0.180/0.238/0.038 ms
student@CSELAB:~$ dig www.example.com
> ^C
student@CSELAB:~$ dig www.example.com

; <<>> DiG 9.10.3-P4-Ubuntu <<>> www.example.com
;; global options: +cmd
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 22925
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 2

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;www.example.com.                IN      A

;; ANSWER SECTION:
www.example.com.                259200  IN      A      10.2.22.101

;; AUTHORITY SECTION:
example.com.                    259200  IN      NS      ns.example.com.example.com.

;; ADDITIONAL SECTION:
ns.example.com.example.com.     259200  IN      A      10.2.22.100

;; Query time: 0 msec
;; SERVER: 10.1.10.35#53(10.1.10.35)
;; WHEN: Mon Sep 16 11:06:56 IST 2019
;; MSG SIZE rcvd: 105

student@CSELAB:~$
```

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

dns

No.	Time	Source	Destination	Protocol	Length	Info
108	9.670122582	10.1.10.147	10.1.10.35	DNS	74	Standard query 0x9d47 A flipkart.com
109	9.670272266	10.1.10.35	10.1.10.147	ICMP	102	Destination unreachable (Port unreachable)
110	9.670459975	127.0.0.1	127.0.1.1	DNS	74	Standard query 0x9d47 A flipkart.com
111	9.670504729	10.1.10.147	192.168.3.5	DNS	74	Standard query 0xb53 A flipkart.com
112	9.670509039	10.1.10.147	4.2.2.2	DNS	74	Standard query 0xb53 A flipkart.com
113	9.670511681	10.1.10.147	202.138.103.100	DNS	74	Standard query 0xb53 A flipkart.com
114	9.670513864	10.1.10.147	202.138.103.100	DNS	74	Standard query 0xb53 A flipkart.com
117	9.687904861	202.138.103.100	10.1.10.147	DNS	395	Standard query response 0xb53 A flipkart.com A 163.53.78.128 NS sdns14.ultradns.b...
118	9.687968193	127.0.0.1	127.0.0.1	DNS	395	Standard query response 0x9d47 A flipkart.com A 163.53.78.128 NS sdns14.ultradns.b...
119	9.688092100	192.168.3.5	10.1.10.147	DNS	90	Standard query response 0xb53 A flipkart.com A 163.53.78.128
125	9.701932057	202.138.96.2	10.1.10.147	DNS	395	Standard query response 0xb53 A flipkart.com A 163.53.78.128 NS sdns14.ultradns.b...
126	9.751497810	4.2.2.2	10.1.10.147	DNS	90	Standard query response 0xb53 A flipkart.com A 163.53.78.128
143	9.978507721	10.1.10.147	10.1.10.35	DNS	78	Standard query 0xed2b A www.flipkart.com
144	9.978629180	10.1.10.35	10.1.10.147	ICMP	106	Destination unreachable (Port unreachable)
145	9.978662072	127.0.0.1	127.0.1.1	DNS	78	Standard query 0xed2b A www.flipkart.com
146	9.978701364	10.1.10.147	202.138.103.100	DNS	78	Standard query 0x3bc3 A www.flipkart.com
149	9.995790305	202.138.103.100	10.1.10.147	DNS	413	Standard query response 0x3bc3 A www.flipkart.com CNAME flipkart.com A 163.53.78.1...
150	9.995871296	127.0.0.1	127.0.0.1	DNS	413	Standard query response 0xed2b A www.flipkart.com CNAME flipkart.com A 163.53.78.1...
219	10.578453423	10.1.10.147	10.1.10.35	DNS	80	Standard query 0x15c8 A img1a.flixcart.com
222	10.578569415	10.1.10.35	10.1.10.147	ICMP	108	Destination unreachable (Port unreachable)
223	10.57859705	127.0.0.1	127.0.1.1	DNS	80	Standard query 0x15c8 A img1a.flixcart.com
224	10.578901600	10.1.10.147	202.138.103.100	DNS	80	Standard query 0x8046 A img1a.flixcart.com
269	10.689708606	202.138.103.100	10.1.10.147	DNS	521	Standard query response 0x8046 A img1a.flixcart.com CNAME pmdssl.flixcart.com.edge...
270	10.689767653	127.0.0.1	127.0.0.1	DNS	521	Standard query response 0x15c8 A img1a.flixcart.com CNAME pmdssl.flixcart.com.edge...
494	11.007326915	10.1.10.147	10.1.10.35	DNS	84	Standard query 0x6314 A rukminim1.flixcart.com
495	11.007387082	10.1.10.35	10.1.10.147	ICMP	112	Destination unreachable (Port unreachable)
496	11.007421008	127.0.0.1	127.0.1.1	DNS	84	Standard query 0x6314 A rukminim1.flixcart.com
497	11.007467022	10.1.10.147	202.138.103.100	DNS	84	Standard query 0x69aa A rukminim1.flixcart.com
509	11.025082661	202.138.103.100	10.1.10.147	DNS	525	Standard query response 0x69aa A rukminim1.flixcart.com CNAME pmdssl.flixcart.com...
510	11.025133070	127.0.0.1	127.0.0.1	DNS	525	Standard query response 0x6314 A rukminim1.flixcart.com CNAME pmdssl.flixcart.com...
805	11.452353397	10.1.10.147	10.1.10.35	DNS	81	Standard query 0xb30d A clients4.google.com
806	11.452437105	10.1.10.35	10.1.10.147	ICMP	109	Destination unreachable (Port unreachable)
807	11.452450055	127.0.0.1	127.0.1.1	DNS	81	Standard query 0xb30d A clients4.google.com
898	11.452495699	10.1.10.147	202.138.103.100	DNS	81	Standard query 0x9cdb A clients4.google.com
916	11.472366369	202.138.103.100	10.1.10.147	DNS	369	Standard query response 0x9cdb A clients4.google.com CNAME clients1.google.com A ...
917	11.472440153	127.0.1.1	127.0.0.1	DNS	369	Standard query response 0xb30d A clients4.google.com CNAME clients1.google.com A ...

Frame 916: 369 bytes on wire (2952 bits), 369 bytes captured (2952 bits) on interface 0

Linux cooked capture

Internet Protocol Version 4, Src: 202.138.103.100, Dst: 10.1.10.147

User Datagram Protocol, Src Port: 53, Dst Port: 33151

Domain Name System (response)

0000 00 00 00 01 00 06 14 58 d0 d4 86 00 00 00 00 00 .....X.....

0010 45 00 01 61 8e 3d 00 00 34 11 b0 cc ca 8a 67 64 E:a = 4....gd

wireshark\_any\_20190916104211\_HHVEyc.pcapng

Packets: 2223 · Displayed: 81 (3.6%) · Dropped: 0 (0.0%) · Profile: Default