

Chirag solanki

15035

Answer 1

The screenshot displays a web browser window with the URL <https://osc.npu.edu/Student>. The page shows the "MyNPU" logo and the "Student Portal" header. Below the header, there are navigation links: "Student Home", "Academic Calendar", "My Account", "Message (1)", and "Log Off". A dropdown menu is visible with options: "Admission", "My Records", "My Requests", "Registration", and "e-Services".

The main content area is titled "Student Home" and "Student Information". It displays the following details:

- Student Name: Mr. Solanki, Chiragkumar Grlivarsinh (15035)
- Phone: Cell Phone: 1- (202) 544-9939

Below the student information, there is a table for "2016 Fall C" with columns for "#", "Course #", and "Course Name". The table lists the following courses:

#	Course #	Course Name
1	EE461	
2	CS470L	
3	CS470	
4	EE461L	

Overlaid on the browser window is a Wireshark packet capture window. The filter is set to "dns". The packet list shows several DNS queries and responses. The selected packet is Frame 100, which is a DNS query response. The packet details pane shows the following information:

- Interface id: 0
- Encapsulation type: Ethernet (1)
- Frame 100: 82 bytes on wire (656 bits), 82 bytes captured (656 bits) on interface 0

The packet bytes pane shows the raw data of the packet, including the DNS query response structure.

Student Index x YouTube x

https://www.youtube.com

YouTube Red

Home Trending Subscriptions

YouTube Mixes Non-stop playlists based on a song or artist

50+ VIDEOS

50+ VIDEOS

50+ VIDEOS

50+ VIDEOS

50+ VIDEOS

802.11 Channel: Channel Offset: FCS Filter: All Frames None Wireless Settings... Encryption Keys...

Filter: dns Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Identification	Info
6988	01:27:18.099099000	192.168.182.1	192.168.191.78	DNS	134	0x0000 (0)	Standard query response 0x8f2d CNAME photos-ugc.1.go
7243	01:27:20.520660000	192.168.191.78	192.168.182.1	DNS	83	0x3f67 (16)	Standard query 0x7d2f A safebrowsing.google.com
7249	01:27:20.544332000	192.168.182.1	192.168.191.78	DNS	358	0x0000 (0)	Standard query response 0x7d2f CNAME sb.1.google.com
7476	01:27:23.307135000	192.168.191.78	224.0.0.251	MDNS	82	0x3fc3 (16)	Standard query 0x0000 PTR _googlecast._tcp.local, "Q
7477	01:27:23.307400000	fe80::cd82:bb10:af1ff02::fb	224.0.0.251	MDNS	102		Standard query 0x0000 PTR _googlecast._tcp.local, "Q
7478	01:27:23.308420000	192.168.191.78	224.0.0.251	MDNS	82	0x3fc4 (16)	Standard query 0x0000 PTR _googlecast._tcp.local, "Q
7479	01:27:23.308621000	fe80::cd82:bb10:af1ff02::fb	224.0.0.251	MDNS	102		Standard query 0x0000 PTR _googlecast._tcp.local, "Q
7496	01:27:23.468852000	192.168.191.78	192.168.182.1	DNS	75	0x3fcc (16)	Standard query 0x574a A csi.gstatic.com
7498	01:27:23.485600000	192.168.182.1	192.168.191.78	DNS	91	0x0000 (0)	Standard query response 0x574a A 216.58.194.195
7545	01:27:24.309573000	192.168.191.78	224.0.0.251	MDNS	82	0x3fde (16)	Standard query 0x0000 PTR _googlecast._tcp.local, "Q
7546	01:27:24.309785000	fe80::cd82:bb10:af1ff02::fb	224.0.0.251	MDNS	102		Standard query 0x0000 PTR _googlecast._tcp.local, "Q
7553	01:27:26.310575000	192.168.191.78	224.0.0.251	MDNS	82	0x3fe1 (16)	Standard query 0x0000 PTR _googlecast._tcp.local, "Q
7554	01:27:26.310765000	fe80::cd82:bb10:af1ff02::fb	224.0.0.251	MDNS	102		Standard query 0x0000 PTR _googlecast._tcp.local, "Q
7616	01:27:33.717164000	192.168.191.78	192.168.182.1	DNS	69	0x3ff9 (16)	Standard query 0x4643 A clients6.google.com
7625	01:27:33.730876000	192.168.182.1	192.168.191.78	DNS	119	0x0000 (0)	Standard query response 0x4643 CNAME clients.1.googl

Frame 100: 82 bytes on wire (656 bits), 82 bytes captured (656 bits) on interface 0  
Interface id: 0  
Encapsulation type: Ethernet (1)

```
0000 01 00 5e 00 00 fb 5c 0a 5b ee 0d a9 08 00 45 00  ..^.. \. [.....E.
0010 00 44 00 00 40 00 ff 11 1f 1e c0 a8 ba e6 e0 00  .D..@.....
0020 00 fb 14 a9 14 a9 00 30 2f 15 00 00 00 00 01  ..f...a...f.....
```

Student Index x Google x

https://www.google.com

Gmail Images

Google

802.11 Channel: Channel Offset: FCS Filter: All Frames None Wireless Settings... Encryption Keys...

Filter: dns Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Identification	Info
7918	01:28:24.346902000	fe80::cd82:bb10:af1ff02::fb	224.0.0.251	MDNS	102		Standard query 0x0000 PTR _googlecast._tcp.local, "Q
7925	01:28:26.106519000	192.168.191.78	192.168.182.1	DNS	79	0x404d (16)	Standard query 0x6d9b A clients5.google.com
7926	01:28:26.112584000	192.168.182.1	192.168.191.78	DNS	129	0x0000 (0)	Standard query response 0x6d9b CNAME clients.1.googl
7927	01:28:26.112650000	192.168.182.1	192.168.191.78	DNS	129	0x0000 (0)	Standard query response 0x6d9b CNAME clients.1.googl
8083	01:28:27.048450000	192.168.191.78	192.168.182.1	DNS	69	0x4084 (16)	Standard query 0x5e15 A gmail1.com
8084	01:28:27.062444000	192.168.182.1	192.168.191.78	DNS	85	0x0000 (0)	Standard query response 0x5e15 A 216.58.194.165
8279	01:28:30.794132000	192.168.191.52	224.0.0.251	MDNS	103	0x0d77 (34)	Standard query 0x0000 PTR _805741c9_sub._googlecast
8347	01:28:31.620012000	192.168.191.52	224.0.0.251	MDNS	103	0x0d78 (34)	Standard query 0x0000 PTR _805741c9_sub._googlecast
8353	01:28:32.640036000	192.168.191.52	224.0.0.251	MDNS	103	0x0d79 (34)	Standard query 0x0000 PTR _805741c9_sub._googlecast
8372	01:28:36.121041000	192.168.186.230	224.0.0.251	MDNS	82	0x0000 (0)	Standard query 0x0000 PTR _googlecast._tcp.local, "Q
8373	01:28:36.121197000	192.168.186.230	224.0.0.251	MDNS	82	0x0000 (0)	Standard query 0x0000 PTR _googlecast._tcp.local, "Q
8445	01:28:42.674891000	fe80::1404:1c15:a82ff02::fb	224.0.0.251	MDNS	156	0xc630 (27)	Standard query 0x0000 PTR _00000000-0589-9f67-0034-0
8444	01:28:42.674891000	fe80::1404:1c15:a82ff02::fb	224.0.0.251	MDNS	176		Standard query 0x0000 PTR _00000000-0589-9f67-0034-0
8453	01:28:45.541022000	192.168.190.144	224.0.0.251	MDNS	112	0xe383 (58)	Standard query 0x0000 PTR _sleep-proxy._udp.local, "Q
8454	01:28:45.542770000	fe80::10d5:cc1:476aff02::fb	224.0.0.251	MDNS	132		Standard query 0x0000 PTR _sleep-proxy._udp.local, "Q

Frame 100: 82 bytes on wire (656 bits), 82 bytes captured (656 bits) on interface 0  
Interface id: 0  
Encapsulation type: Ethernet (1)

```
0000 01 00 5e 00 00 fb 5c 0a 5b ee 0d a9 08 00 45 00  ..^.. \. [.....E.
0010 00 44 00 00 40 00 ff 11 1f 1e c0 a8 ba e6 e0 00  .D..@.....
0020 00 fb 14 a9 14 a9 00 30 2f 15 00 00 00 00 01  ..f...a...f.....
```

## Answer 2

- 1) I can see hear MDNS and DNS protocols.
- 2) With use of pinging I can filter the information that I want see also I can search the things that I need And I can get destination information etc. .