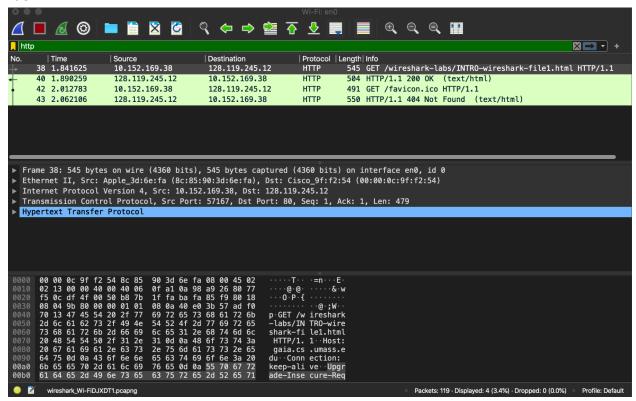
Noah Cunningham Reese Pearsall CSCI 466 10/3/22

Wireshark Lab 1: HTTP and DNS

Task 1:



Task 2:

2.1: 10.152.169.38 **2.2:** 128.119.245.12

2.3: Port 80

```
Findme 32: 000 bytes on ware 10240 bills, 000 bytes captured 10240 bills, on interrace end, in 0

Ethernet II, Src: Apple_3d:6e:fa (8c:85:90:3d:6e:fa), Dst: Netgear_ef:f9:1e (10:0c:6b:ef:f9:1e)

Internet Protocol Version 4, Src: 192.168.1.7, Dst: 128.119.245.12

Fransmission Control Protocol, Src Port: 55056, Dst Port: 80, Seq: 1, Ack: 1, Len: 590

Hypertext Transfer Protocol

SET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n

Host: gaia.cs.umass.edu\r\n
Connection: Keep-alive\r\n
Cache-Control: max-age=0\r\n
Upgrade=Insecure-Requests: 1\r\n
Usgr-Agent: Moziluf5.0 (Macintosh: Intel Mac 05 X 10.15.7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/105.0.0.0 Safari/537.36\r\n
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0...
Accept-Encoding: gzip, deflate\r\n
Accept-Language: en-US_en;q=0.9\r\n
If-Modified-Since: Mon, 10 Oct 2022 05:59:02 GMT\r\n
If-Modified-Since: Mon, 10 Oct 2022 05:59:02 GMT\r\n
Iful request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html
[HTTP request 1/1]
[Response in frame: 41]
```

Task 3:

3.1: 200 OK **3.2:** (Text/HTML)

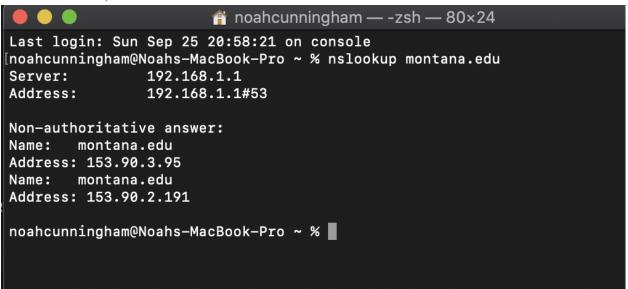
3.3: 0.06 seconds

3.4:

```
| Transmission Control Protocol, Src Port: 80, Dst Port: 55503, Seq: 1, Ack: 401, Len: 438
| Hypertext Transfer Protocol
| Hypertext Hypert
```

Task 4:

4.1: The server IP address is both 153.90.3.95 and 153.90.2.191, montana.edu uses a round robin setup to distribute server load



OrgName:

OrgId: Address:

Address:

Country: RegDate: Updated:

City: StateProv: PostalCode:

OrgAbuseHandle: ITC5-ARIN

Montana State University

P. O. Box 173240

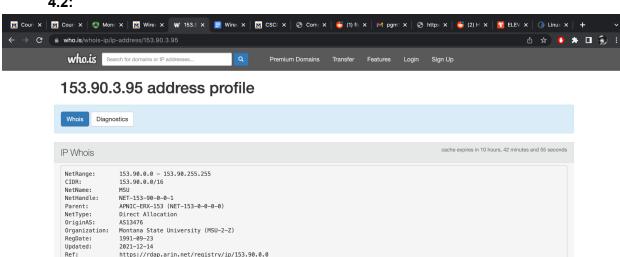
Bozeman MT 59717-3240

2008-10-23

OrgAbuseName: Information Technology Center
OrgAbusePhone: +1-406-994-3042

MSU-2-Z Information Technology Center

https://rdap.arin.net/registry/entity/MSU-2-Z



4.3: -type = MX flag displays the MX(mail exchange) record which specifies which email server is responsible for accepting emails. The answer is everything below the Non-Authoritative answer:

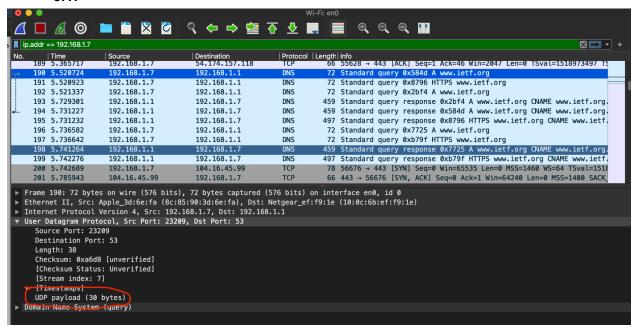
```
noahcunningham@Noahs-MacBook-Pro ~ % nslookup -type=MX www.youtube.com
Server:
                192.168.1.1
                192.168.1.1#53
Address:
Non-authoritative answer:
www.youtube.com canonical name = youtube-ui.l.google.com.
Authoritative answers can be found from:
1.google.com
        origin = ns1.google.com
        mail addr = dns-admin.google.com
        serial = 480039807
        refresh = 900
        retry = 900
        expire = 1800
        minimum = 60
noahcunningham@Noahs-MacBook-Pro ~ %
```

Taks 5:

```
[noahcunningham@Noahs-MacBook-Pro ~ % ipconfig
usage: ipconfig <command> <args>
where <command> is one of waitall, getifaddr, ifcount, getoption, getpacket, get
v6packet, set, setverbose
[noahcunningham@Noahs-MacBook-Pro ~ % ipconfig /flushdns
usage: ipconfig <command> <args>
where <command> is one of waitall, getifaddr, ifcount, getoption, getpacket, get
v6packet, set, setverbose
[noahcunningham@Noahs-MacBook-Pro ~ % sudo killall -HUP mDNSResponder
]
[Password:
noahcunningham@Noahs-MacBook-Pro ~ %
```

[noahcunningham@Noahs-MacBook-Pro ~ % ipconfig getifaddr en0 192.168.1.7 noahcunningham@Noahs-MacBook-Pro ~ %

5.1:



5.2: UDP as shown above

5.3: 53 as shown above

5.4: 192.168.1.1

5.5: There are 5 response messages and 4/5 have 3 answers and 1 has 2 answers

5.6: 192.168.1.7