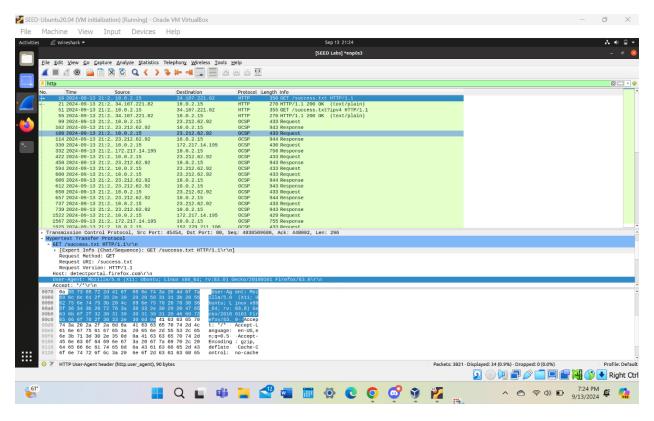
Aden Hartman & Willow Berryessa

CSCI 466

Lab 1

9/13/24

Task 1:



Task 2:

2.1) What is the IP address of gaia.cs.umass.edu?

34.107.221.82

2.2) What's the IP address of your machine?

10.0.2.15

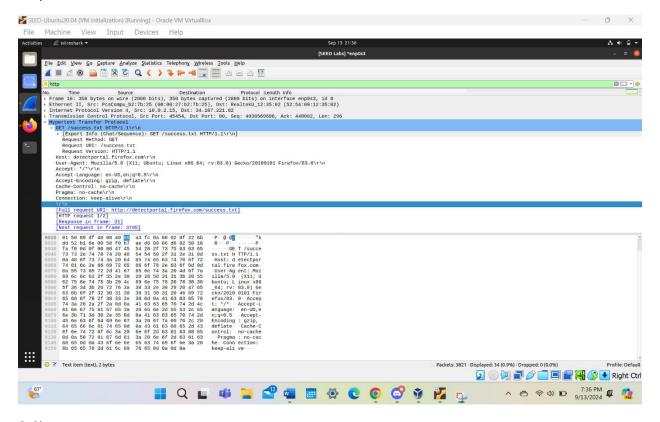
2.3) What is the destination port for this packet?

80

2.4) What version of http is being used for the request?

V1.1

2.5)



2.6)

_ 13 2024-09-13 21:2 10.0.2.15	34.107.221.82	TCP	74 45454 → 80 [SYN] Seq=4038569685 Win=64240 Len=0 MSS=1460 SACK
14 2024-09-13 21:2 34.107.221.82	10.0.2.15	TCP	60 80 → 45454 [SYN, ACK] Seq=448001 Ack=4038569686 Win=65535 Len
15 2024-09-13 21:2 10.0.2.15	34.107.221.82	TCP	54 45454 → 80 [ACK] Seq=4038569686 Ack=448002 Win=64240 Len=0

Task 3

3.1) What is the response code?

200

3.2) What type of content was returned from this response message?

Application/ocsp-response/r/n

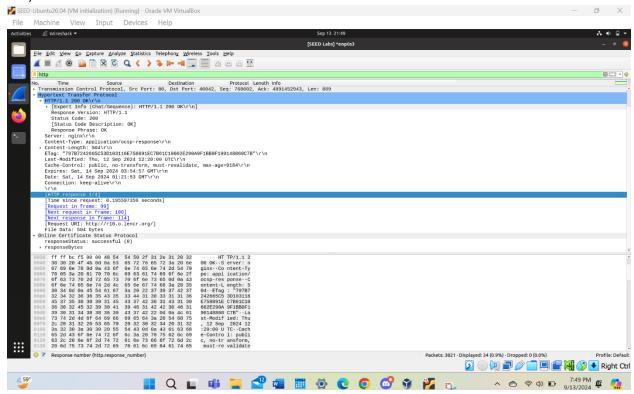
3.3) How long did it take from the get message being sent to receive the response?

0.195597359

3.4) What version of http is being used for the response?

V1.1

3.5)



Task 4:

4.1)

```
seed@VM: ~
[09/13/24]seed@VM:~$ ls
Desktop Downloads Music Public Documents lab0 Pictures Share
                                  Public Templates
Share Videos
[09/13/24]seed@VM:~$ nslookup montana.edu
                127.0.0.53
Server:
                127.0.0.53#53
Address:
Non-authoritative answer:
Name: montana.edu
Address: 68.169.17.15
Name: montana.edu
Address: 153.90.3.209
Name: montana.edu
Address: 153.90.3.216
[09/13/24]seed@VM:~$
```

NetRange: CIDR: NetName: 153.90.0.0 - 153.90.255.255 153.90.0.0/16 MSU NetHandle: Parent: NetType: NET-153-90-0-0-1 APNIC-ERX-153 (NET-153-0-0-0) Direct Allocation OriginAS: Organization: RegDate: AS13476 Montana State University (MSU-2-Z) 1991-09-23 Updated: 2021-12-14 https://rdap.arin.net/registry/ip/153.90.0.0 OrgName: Montana State University OrgId: Address: Address: MSU-2-Z Information Technology Center P. O. Box 173240 City: StateProv: PostalCode: Bozeman MT 59717-3246 Country: RegDate: Updated: Ref: 2008-10-23 https://rdap.arin.net/registry/entity/MSU-2-Z OrgAbuseHandle: ITC5-ARIN OrgAbuseAmme: Information Technology Center
OrgAbusePhone: +1-466-994-3842
abuse@montana.edu
OrgAbuseEmail: abuse@montana.edu
OrgAbuseRef: https://rdap.arin.net/registry/entity/ITC5-ARIN OrgTechHandle: IPADM830-ARIN OrgTechName: IP Admins OrgTechPhone: +1-406-994-4277 OrgTechEmail: ipadmins@montana.edu
OrgTechRef: https://rdap.arin.net/registry/entity/IPADM830-ARIN RTechHandle: INFOR130-ARIN

4.3)

[09/13/24]seed@VM:~\$ nslookup -type=NS montana.edu

Server: 127.0.0.53 Address: 127.0.0.53#53

Non-authoritative answer:

montana.edu nameserver = dns1.msu.montana.edu.

montana.edu nameserver = cudess2.umt.edu.

montana.edu nameserver = dns2.msu.montana.edu.

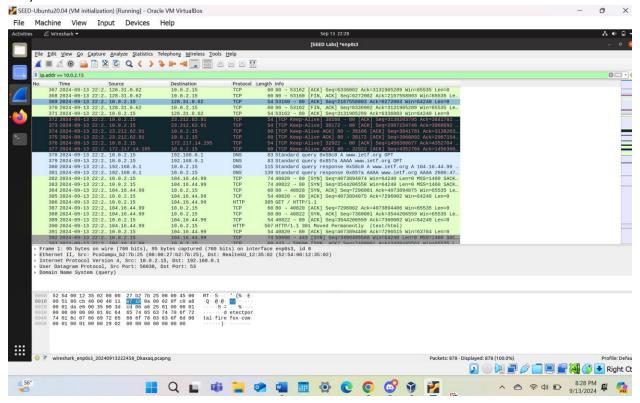
Authoritative answers can be found from:

4.4) What does the -type=MX flag mean? What was the answer for the DNS query you requested?

The type flag stands for mail exchange, and the answer for the DNS query was a list of hostnames for mail servers that handle email for the domain.

Task 5

5.1)



5.2) Are the DNS query and response messages sent over UDP or TCP?

User Datagram Protocol

5.3) What is the destination port for the DNS query?

53

5.4) To what IP address is the DNS query message sent?

192.168.0.1

5.5) How many answers are provided in the DNS response message?

2 RRs

5.6) What is an IP address for ietf.org?

104.16.44.99

Task 6

6.1)

