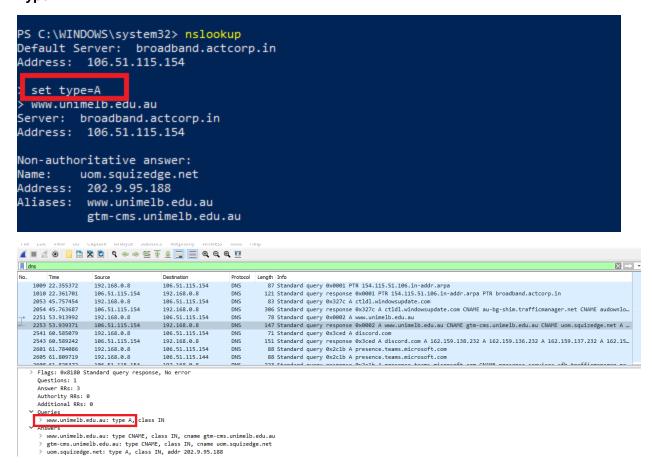# LAB-3

3. Try to make different types (A,NS,MX) of DNS queries and map the response to the protocol structure
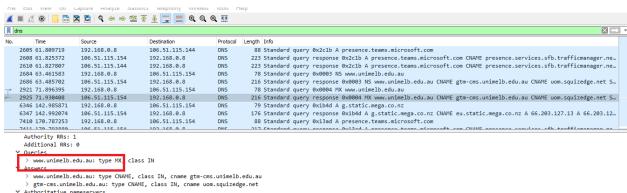
Type=A

Type=NS

```
> set type=NS
> www.unimelb.edu.au
Server:  broadband.actcorp.in
Address:  106.51.115.154

Non-authoritative answer:
www.unimelb.edu.au        canonical name = gtm-cms.unimelb.edu.au
gtm-cms.unimelb.edu.au   canonical name = uom.squizedge.net

squizedge.net
        primary name server = ns-1506.awsdns-60.org
        responsible mail addr = awsdns-hostmaster.amazon.com
        serial  = 1
        refresh = 7200 (2 hours)
        retry   = 900 (15 mins)
        expire  = 1209600 (14 days)
        default TTL = 86400 (1 day)
```

No.	Time	Source	Destination	Protocol	Length	Info
2605	61.809719	192.168.0.8	106.51.115.144	DNS	88	Standard query 0x2c1b A presence.teams.microsoft.com
2608	61.825372	106.51.115.154	192.168.0.8	DNS	223	Standard query response 0x2c1b A presence.teams.microsoft.com CNAME presence.services.sfb.trafficmanager.ne…
2610	61.827807	106.51.115.144	192.168.0.8	DNS	223	Standard query response 0x2c1b A presence.teams.microsoft.com CNAME presence.services.sfb.trafficmanager.ne…
2684	63.461583	192.168.0.8	106.51.115.154	DNS	78	Standard query 0x0003 NS www.unimelb.edu.au
2686	63.485702	106.51.115.154	192.168.0.8	DNS	216	Standard query response 0x0003 NS www.unimelb.edu.au CNAME gtm-cms.unimelb.edu.au CNAME uom.squizedge.net S…
2921	71.896395	192.168.0.8	106.51.115.154	DNS	78	Standard query 0x0004 MX www.unimelb.edu.au
2925	71.930408	106.51.115.154	192.168.0.8	DNS	216	Standard query response 0x0004 MX www.unimelb.edu.au CNAME gtm-cms.unimelb.edu.au CNAME uom.squizedge.net S…
6346	142.985871	192.168.0.8	106.51.115.154	DNS	79	Standard query 0x1b4d A g.static.mega.co.nz
6347	142.992074	106.51.115.154	192.168.0.8	DNS	176	Standard query response 0x1b4d A g.static.mega.co.nz CNAME eu.static.mega.co.nz A 66.203.127.13 A 66.203.12…
7410	170.787253	192.168.0.8	106.51.115.154	DNS	88	Standard query 0x13ad A presence.teams.microsoft.com
7411	170.703820	106.51.115.154	192.168.0.8	DNS	217	Standard query response 0x13ad A presence.teams.microsoft.com CNAME presence.services.sfb.trafficmanager.ne…

```
    Authority RRs: 1
    Additional RRs: 0
  Queries
    > www.unimelb.edu.au: type NS, class IN
  Answers
    > www.unimelb.edu.au: type CNAME, class IN, cname gtm-cms.unimelb.edu.au
    > gtm-cms.unimelb.edu.au: type CNAME, class IN, cname uom.squizedge.net
  ∨ Authoritative nameservers
    > squizedge.net: type SOA, class IN, mname ns-1506.awsdns-60.org
    [Request In: 2684]
    [Time: 0.024119000 seconds]
```

Type=MX

```
> set type=MX
> www.unimelb.edu.au
Server:  broadband.actcorp.in
Address:  106.51.115.154

Non-authoritative answer:
www.unimelb.edu.au       canonical name = gtm-cms.unimelb.edu.au
gtm-cms.unimelb.edu.au   canonical name = uom.squizedge.net

squizedge.net
        primary name server = ns-1506.awsdns-60.org
        responsible mail addr = awsdns-hostmaster.amazon.com
        serial  = 1
        refresh = 7200 (2 hours)
        retry   = 900 (15 mins)
        expire  = 1209600 (14 days)
        default TTL = 86400 (1 day)
>
```

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dns

No.	Time	Source	Destination	Protocol	Length	Info
2605	61.809719	192.168.0.8	106.51.115.144	DNS	88	Standard query 0x2c1b A presence.teams.microsoft.com
2608	61.825372	106.51.115.154	192.168.0.8	DNS	223	Standard query response 0x2c1b A presence.teams.microsoft.com CNAME presence.services.sfb.trafficmanager.ne…
2610	61.827807	106.51.115.144	192.168.0.8	DNS	223	Standard query response 0x2c1b A presence.teams.microsoft.com CNAME presence.services.sfb.trafficmanager.ne…
2684	63.461583	192.168.0.8	106.51.115.154	DNS	78	Standard query 0x0003 NS www.unimelb.edu.au
2686	63.485702	106.51.115.154	192.168.0.8	DNS	216	Standard query response 0x0003 NS www.unimelb.edu.au CNAME gtm-cms.unimelb.edu.au CNAME uom.squizedge.net S…
2921	71.896395	192.168.0.8	106.51.115.154	DNS	78	Standard query 0x0004 MX www.unimelb.edu.au
2925	71.930408	106.51.115.154	192.168.0.8	DNS	216	Standard query response 0x0004 MX www.unimelb.edu.au CNAME gtm-cms.unimelb.edu.au CNAME uom.squizedge.net S…
6346	142.985871	192.168.0.8	106.51.115.154	DNS	79	Standard query 0x1b4d A g.static.mega.co.nz
6347	142.992074	106.51.115.154	192.168.0.8	DNS	176	Standard query response 0x1b4d A g.static.mega.co.nz CNAME eu.static.mega.co.nz A 66.203.127.13 A 66.203.12…
7410	170.787253	192.168.0.8	106.51.115.154	DNS	88	Standard query 0x13ad A presence.teams.microsoft.com
7411	170.792800	106.51.115.154	192.168.0.8	DNS	217	Standard query response 0x13ad A presence.teams.microsoft.com CNAME presence.services.sfb.trafficmanager.ne…

```
    Authority RRs: 1
    Additional RRs: 0
 Queries
  > www.unimelb.edu.au: type MX, class IN
 Answers
  > www.unimelb.edu.au: type CNAME, class IN, cname gtm-cms.unimelb.edu.au
  > gtm-cms.unimelb.edu.au: type CNAME, class IN, cname uom.squizedge.net
 Authoritative nameservers
  > squizedge.net: type SOA, class IN, mname ns-1506.awsdns-60.org
    [Request In: 2921]
    [Time: 0.034013000 seconds]
```