Network Administration/System Administration (NTU CSIE, Spring 2024) Lab 7

B12902110 呂承諺

April 7, 2024

1 `dig b12902110.dnslab.com`

```
root@8c07348c3a30:/# dig b12902110.dnslab.com

; <<>> DiG 9.11.3-1ubuntu1.18-Ubuntu <<>> b12902110.dnslab.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 38068
;; flags: qr aa rd; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 2
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
; COOKIE: 493f83a09b0a0ee3791ed8ec66129f4f1bdff2d9d954642d (good)
;; QUESTION SECTION:
;b12902110.dnslab.com.          IN      A

;; ANSWER SECTION:
b12902110.dnslab.com.   604800  IN      A       172.20.2.2

;; AUTHORITY SECTION:
dnslab.com.             604800  IN      NS      ns1.dnslab.com.

;; ADDITIONAL SECTION:
ns1.dnslab.com.         604800  IN      A       172.20.0.2

;; Query time: 1 msec
;; SERVER: 127.0.0.11#53(127.0.0.11)
;; WHEN: Sun Apr 07 13:27:43 UTC 2024
;; MSG SIZE  rcvd: 127
```

2 dig www.b12902110.dnslab.com

```
root@8c07348c3a30:/# dig www.b12902110.dnslab.com

; <<>> DiG 9.11.3-1ubuntu1.18-Ubuntu <<>> www.b12902110.dnslab.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 44593
;; flags: qr aa rd; QUERY: 1, ANSWER: 2, AUTHORITY: 1, ADDITIONAL: 2
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
; COOKIE: 978781088cf39adfb4e3c9f066129f685b1cb04404030a71 (good)
;; QUESTION SECTION:
;www.b12902110.dnslab.com.        IN      A

;; ANSWER SECTION:
www.b12902110.dnslab.com. 604800 IN     CNAME   b12902110.dnslab.com.
b12902110.dnslab.com.    604800  IN      A       172.20.2.2

;; AUTHORITY SECTION:
dnslab.com.              604800  IN      NS      ns1.dnslab.com.

;; ADDITIONAL SECTION:
ns1.dnslab.com.          604800  IN      A       172.20.0.2

;; Query time: 1 msec
;; SERVER: 127.0.0.11#53(127.0.0.11)
;; WHEN: Sun Apr 07 13:28:08 UTC 2024
;; MSG SIZE  rcvd: 145
```

3 dig -x 170.20.2.2

```
root@8c07348c3a30:/# dig -x 172.20.2.2

; <<>> DiG 9.11.3-1ubuntu1.18-Ubuntu <<>> -x 172.20.2.2
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 18647
;; flags: qr aa rd; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 2
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
; COOKIE: b8dc7c8194ef31b201904b7e66129f9512cf07e7cbcc3057 (good)
;; QUESTION SECTION:
;2.2.20.172.in-addr.arpa.         IN      PTR

;; ANSWER SECTION:
2.2.20.172.in-addr.arpa. 604800 IN      PTR     b12902110.dnslab.com.

;; AUTHORITY SECTION:
20.172.in-addr.arpa.     604800  IN      NS      ns1.dnslab.com.

;; ADDITIONAL SECTION:
ns1.dnslab.com.          604800  IN      A       172.20.0.2

;; Query time: 1 msec
;; SERVER: 127.0.0.11#53(127.0.0.11)
;; WHEN: Sun Apr 07 13:28:53 UTC 2024
;; MSG SIZE  rcvd: 148
```

4 dig google.com

```
root@8c07348c3a30:/# dig google.com

; <<>> DiG 9.11.3-1ubuntu1.18-Ubuntu <<>> google.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: SERVFAIL, id: 9047
;; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 0
;; WARNING: recursion requested but not available

;; QUESTION SECTION:
;google.com.                    IN      A

;; Query time: 1 msec
;; SERVER: 127.0.0.11#53(127.0.0.11)
;; WHEN: Sun Apr 07 13:29:54 UTC 2024
;; MSG SIZE  rcvd: 28
```