Assignment no: 02

Topic: Gather DNS, OS, and tracerouting information of IPs using different tools

Find domain and subdomain Using Netcraft:

1. Domain:

- **Primary Domain:** netcraft.com
- **Subdomain:** sitereport.netcraft.com

2. Netblock Owner:

- Cloudflare, lnc.

3. Hosting Country:

- United States (us)

4. IPv4 Address:

- 104.22.1.118

5.IPv6 Address:

- 2606:4700:10:0:0:6816:76

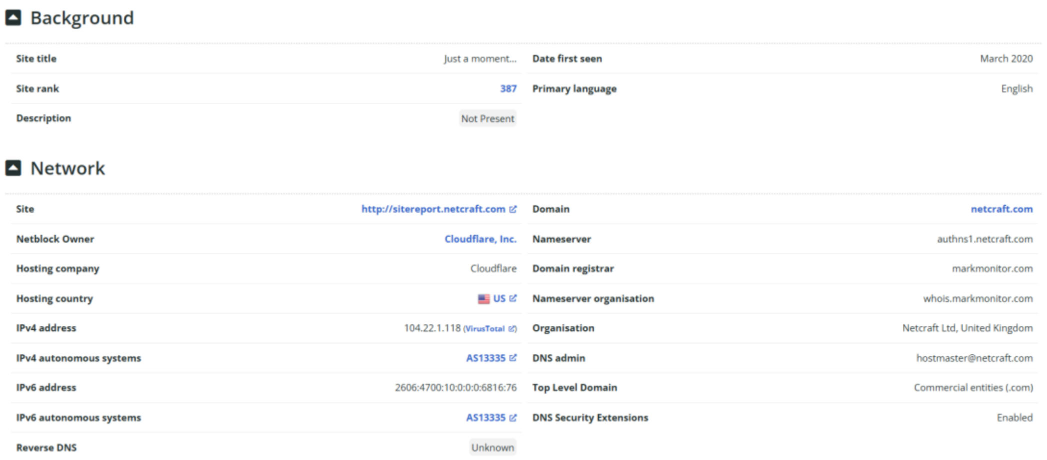
6. Domain Registrar:

- MarkMonitor

7. DNS Admin:

- hostmaster@netcraft.com

8. Top Level Domain: Commercial entities (.com)



Background

Site title	Just a moment...	Date first seen	March 2020
Site rank	387	Primary language	English
Description	Not Present		

Network

Site	http://sitereport.netcraft.com	Domain	netcraft.com
Netblock Owner	Cloudflare, Inc.	Nameserver	authns1.netcraft.com
Hosting company	Cloudflare	Domain registrar	markmonitor.com
Hosting country	US	Nameserver organisation	whois.markmonitor.com
IPv4 address	104.22.1.118 (VirusTotal)	Organisation	Netcraft Ltd, United Kingdom
IPv4 autonomous systems	AS13335	DNS admin	hostmaster@netcraft.com
IPv6 address	2606:4700:10:0:0:0:6816:76	Top Level Domain	Commercial entities (.com)
IPv6 autonomous systems	AS13335	DNS Security Extensions	Enabled
Reverse DNS	Unknown		

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Topic: Gather DNS, OS, and tracerouting information of IPs using different tools

Performing "whois" lookup of the website:

Domain Name: NETCRAFT.COM

Registry Domain ID: 509179_DOMAIN_COM-VRSN

Registrar WHOIS Server: whois.markmonitor.com

Registrar URL: http://www.markmonitor.com

Updated Date: 2025-01-06T17:21:04Z

Creation Date: 1994-10-18T04:00:00Z

Registry Expiry Date: 2034-10-17T04:00:00Z

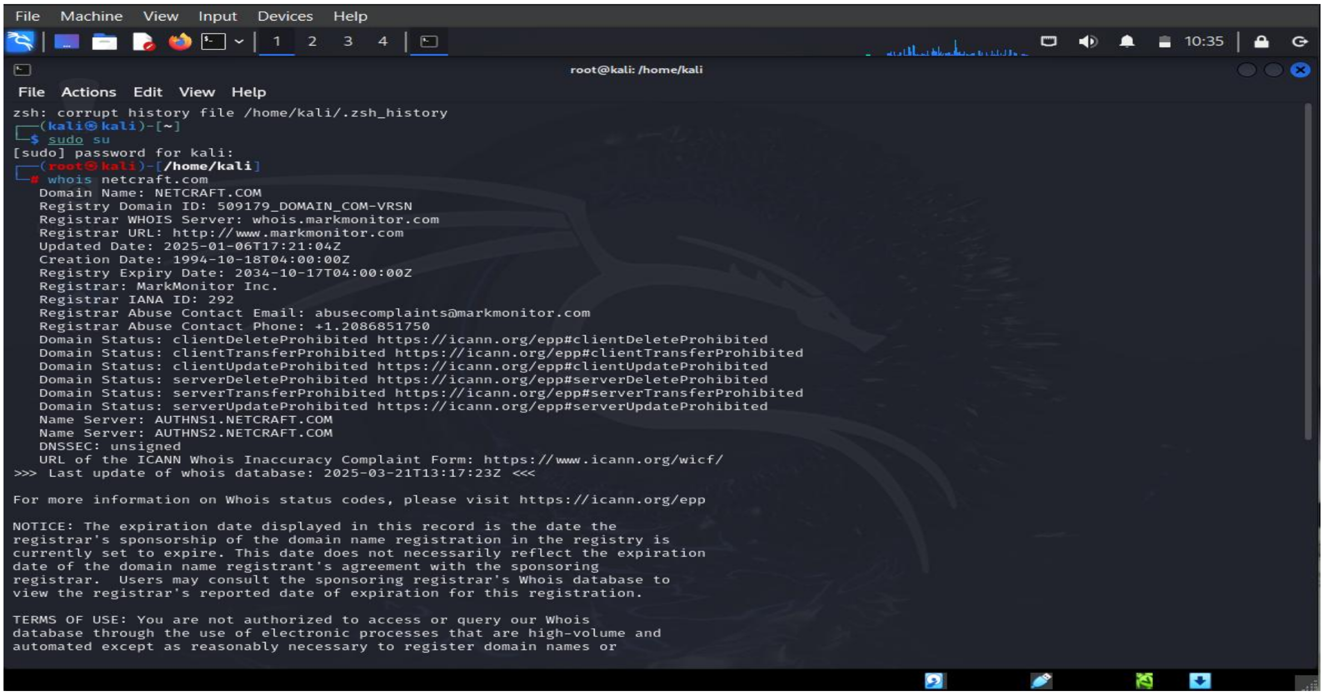
Registrar: MarkMonitor Inc.

Registrar IANA ID: 292

Registrar Abuse Contact Email: abusecomplaints@markmonitor.com

Registrar Abuse Contact Phone: +1.2086851750

Screenshot:



```
zsh: corrupt history file /home/kali/.zsh_history
┌──(kali㉿kali)-[~]
└─$ sudo su
[sudo] password for kali:
┌──(root㉿kali)-[/home/kali]
└─# whois netcraft.com
   Domain Name: NETCRAFT.COM
   Registry Domain ID: 509179_DOMAIN_COM-VRSN
   Registrar WHOIS Server: whois.markmonitor.com
   Registrar URL: http://www.markmonitor.com
   Updated Date: 2025-01-06T17:21:04Z
   Creation Date: 1994-10-18T04:00:00Z
   Registry Expiry Date: 2034-10-17T04:00:00Z
   Registrar: MarkMonitor Inc.
   Registrar IANA ID: 292
   Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
   Registrar Abuse Contact Phone: +1.2086851750
   Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
   Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
   Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
   Domain Status: serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited
   Domain Status: serverTransferProhibited https://icann.org/epp#serverTransferProhibited
   Domain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited
   Name Server: AUTHNS1.NETCRAFT.COM
   Name Server: AUTHNS2.NETCRAFT.COM
   DNSSEC: unsigned
   URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2025-03-21T13:17:23Z <<<

For more information on Whois status codes, please visit https://icann.org/epp

NOTICE: The expiration date displayed in this record is the date the
registrar's sponsorship of the domain name registration in the registry is
currently set to expire. This date does not necessarily reflect the expiration
date of the domain name registrant's agreement with the sponsoring
registrar.  Users may consult the sponsoring registrar's Whois database to
view the registrar's reported date of expiration for this registration.

TERMS OF USE: You are not authorized to access or query our Whois
database through the use of electronic processes that are high-volume and
automated except as reasonably necessary to register domain names or
```

Assignment no: 02

Topic: Gather DNS, OS, and tracerouting information of IPs using different tools

Use dig to gather DNS information

Review of the test :

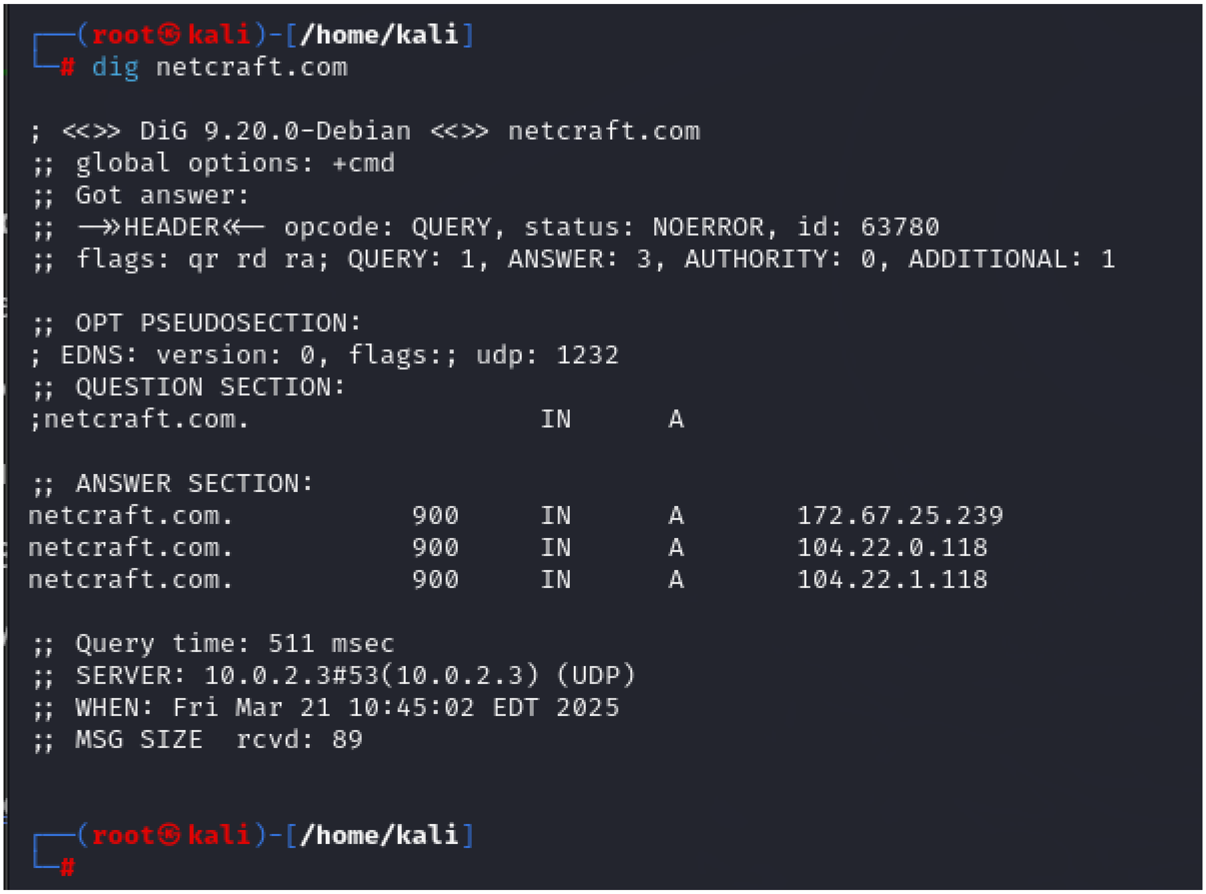
opcode: QUERY,

status: NOERROR,

id: 63780

SERVER: 10.0.2.3#53(10.0.2.3) (UDP)

Screenshot :



```
┌──(root㉿kali)-[/home/kali]
└─# dig netcraft.com

; <<>> DiG 9.20.0-Debian <<>> netcraft.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 63780
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; QUESTION SECTION:
;netcraft.com.                  IN      A

;; ANSWER SECTION:
netcraft.com.           900     IN      A       172.67.25.239
netcraft.com.           900     IN      A       104.22.0.118
netcraft.com.           900     IN      A       104.22.1.118

;; Query time: 511 msec
;; SERVER: 10.0.2.3#53(10.0.2.3) (UDP)
;; WHEN: Fri Mar 21 10:45:02 EDT 2025
;; MSG SIZE  rcvd: 89


┌──(root㉿kali)-[/home/kali]
└─#
```

Assignment no: 02

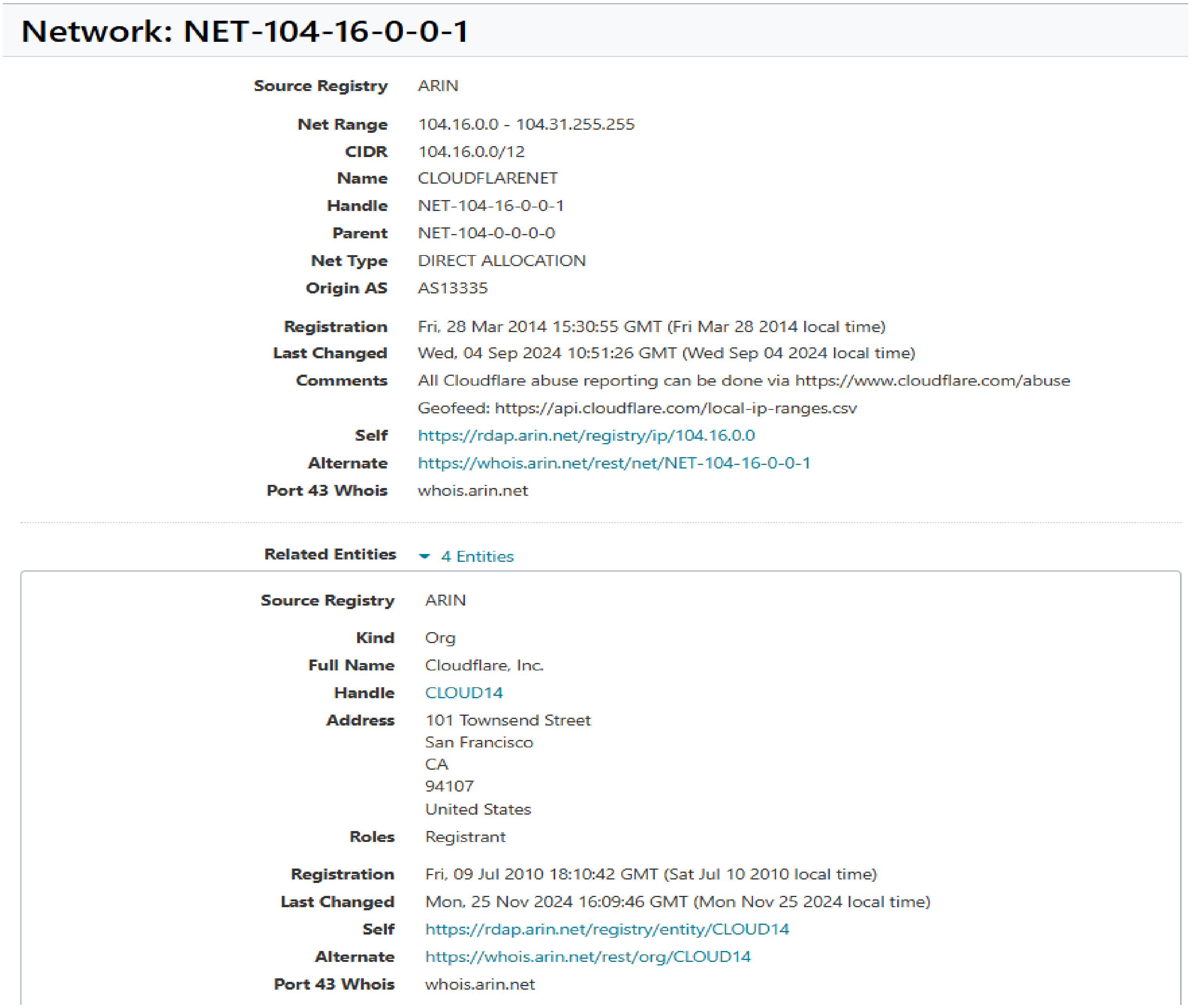
Topic: Gather DNS, OS, and tracerouting information of IPs using different tools

Use the ARIN website to check the IP range:

IP Address: 104.22.1.118

Net Range: 104.16.0.0 - 104.31.255.255

Screenshot :



Network: NET-104-16-0-0-1

Source Registry	ARIN
Net Range	104.16.0.0 - 104.31.255.255
CIDR	104.16.0.0/12
Name	CLOUDFLARENET
Handle	NET-104-16-0-0-1
Parent	NET-104-0-0-0-0
Net Type	DIRECT ALLOCATION
Origin AS	AS13335
Registration	Fri, 28 Mar 2014 15:30:55 GMT (Fri Mar 28 2014 local time)
Last Changed	Wed, 04 Sep 2024 10:51:26 GMT (Wed Sep 04 2024 local time)
Comments	All Cloudflare abuse reporting can be done via https://www.cloudflare.com/abuse Geofeed: https://api.cloudflare.com/local-ip-ranges.csv
Self	https://rdap.arin.net/registry/ip/104.16.0.0
Alternate	https://whois.arin.net/rest/net/NET-104-16-0-0-1
Port 43 Whois	whois.arin.net

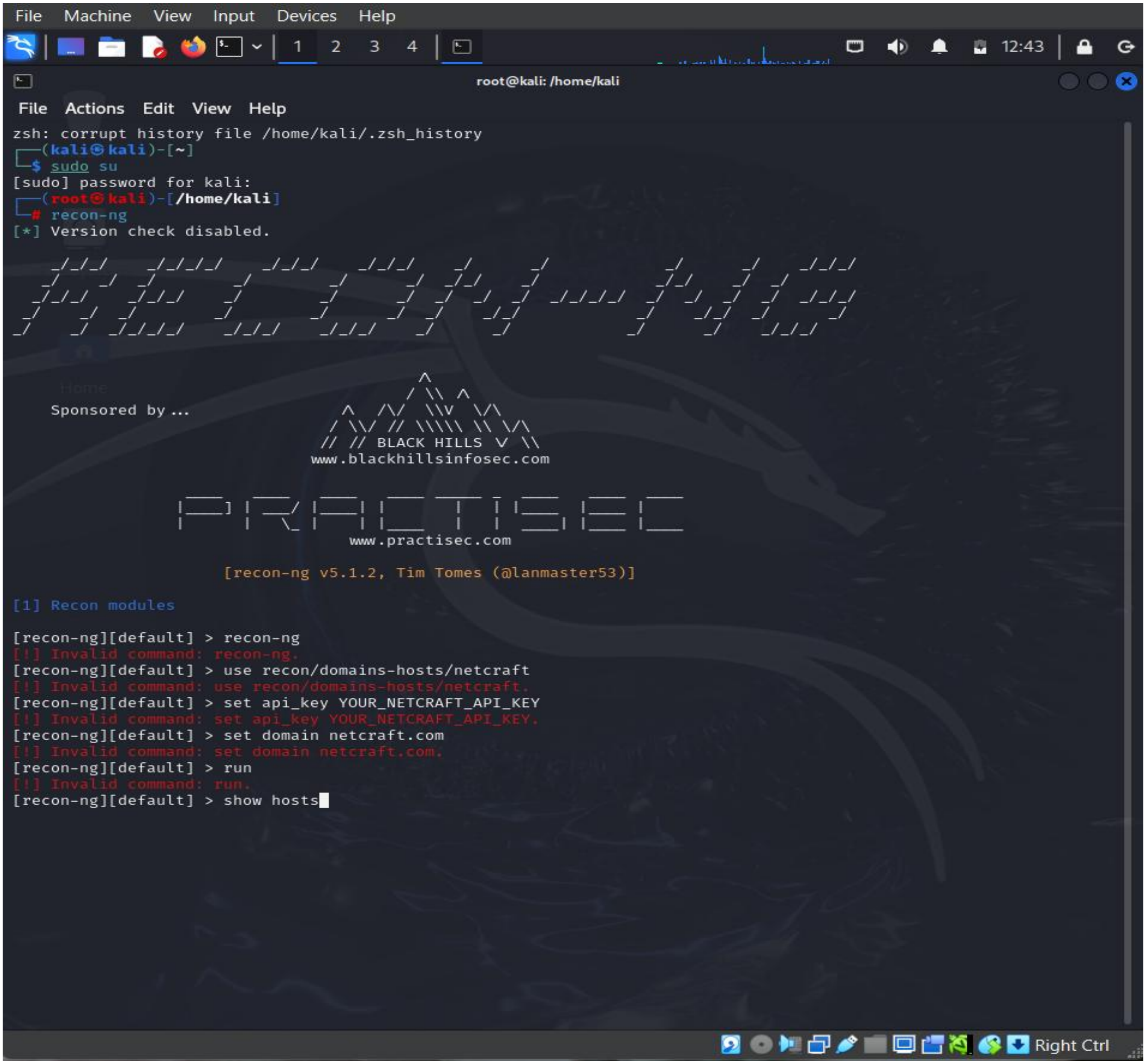
Related Entities ▾ 4 Entities

Source Registry	ARIN
Kind	Org
Full Name	Cloudflare, Inc.
Handle	CLOUD14
Address	101 Townsend Street San Francisco CA 94107 United States
Roles	Registrant
Registration	Fri, 09 Jul 2010 18:10:42 GMT (Sat Jul 10 2010 local time)
Last Changed	Mon, 25 Nov 2024 16:09:46 GMT (Mon Nov 25 2024 local time)
Self	https://rdap.arin.net/registry/entity/CLOUD14
Alternate	https://whois.arin.net/rest/org/CLOUD14
Port 43 Whois	whois.arin.net

Assignment no: 02

Topic: Gather DNS, OS, and tracerouting information of IPs using different tools

Using Recon-ng tools:



File Machine View Input Devices Help
1 2 3 4
12:43
root@kali: /home/kali
File Actions Edit View Help
Right Ctrl

```
zsh: corrupt history file /home/kali/.zsh_history
┌──(kali㉿kali)-[~]
└─$ sudo su
[sudo] password for kali:
┌──(root㉿kali)-[/home/kali]
└─# recon-ng
[*] Version check disabled.

    _/_/_/    _/_/_/_/    _/_/_/    _/_/_/    _/      _/            _/      _/    _/_/_/
   _/    _/  _/        _/        _/      _/  _/_/    _/            _/_/    _/  _/
  _/_/_/    _/_/_/    _/        _/      _/  _/  _/  _/  _/_/_/_/  _/  _/  _/  _/  _/_/_/
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                 |      |    \_ |    | |____    |     |   ____| |____  |____
                                   www.practisec.com

                      [recon-ng v5.1.2, Tim Tomes (@lanmaster53)]

[1] Recon modules

[recon-ng][default] > recon-ng
[!] Invalid command: recon-ng.
[recon-ng][default] > use recon/domains-hosts/netcraft
[!] Invalid command: use recon/domains-hosts/netcraft.
[recon-ng][default] > set api_key YOUR_NETCRAFT_API_KEY
[!] Invalid command: set api_key YOUR_NETCRAFT_API_KEY.
[recon-ng][default] > set domain netcraft.com
[!] Invalid command: set domain netcraft.com.
[recon-ng][default] > run
[!] Invalid command: run.
[recon-ng][default] > show hosts
```

Assignment no: 02

Topic: Gather DNS, OS, and tracerouting information of IPs using different tools