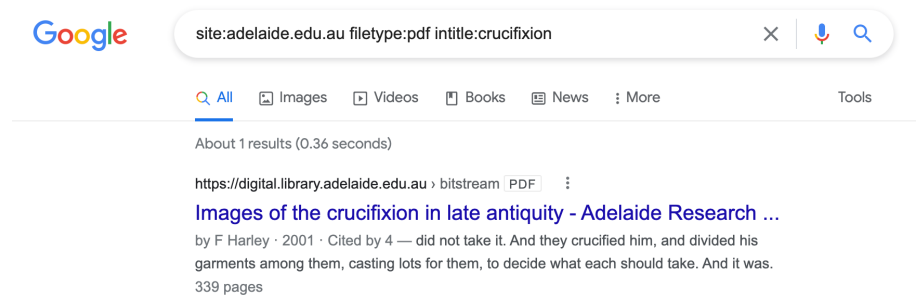


Assignment 0x02

Question 1

(a) Google Search syntax: **site:adelaide.edu.au filetype:pdf intitle:crucifixion**

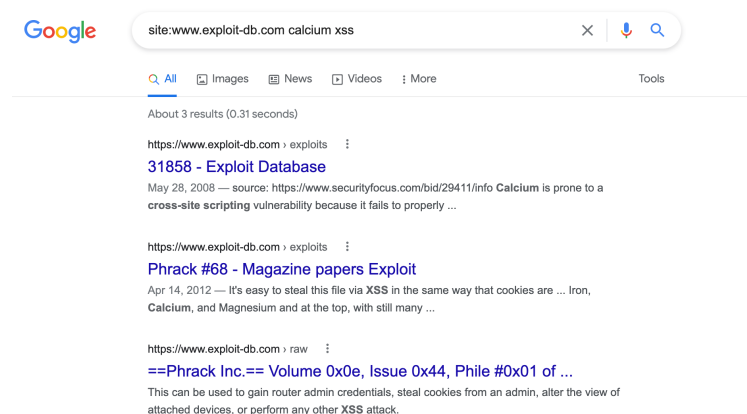


(b) The author is **F Harley**

Question 2

Exploit-db is a good hack database (<https://www.exploit-db.com/>)

Search using: **site:www.exploit-db.com calcium xss**



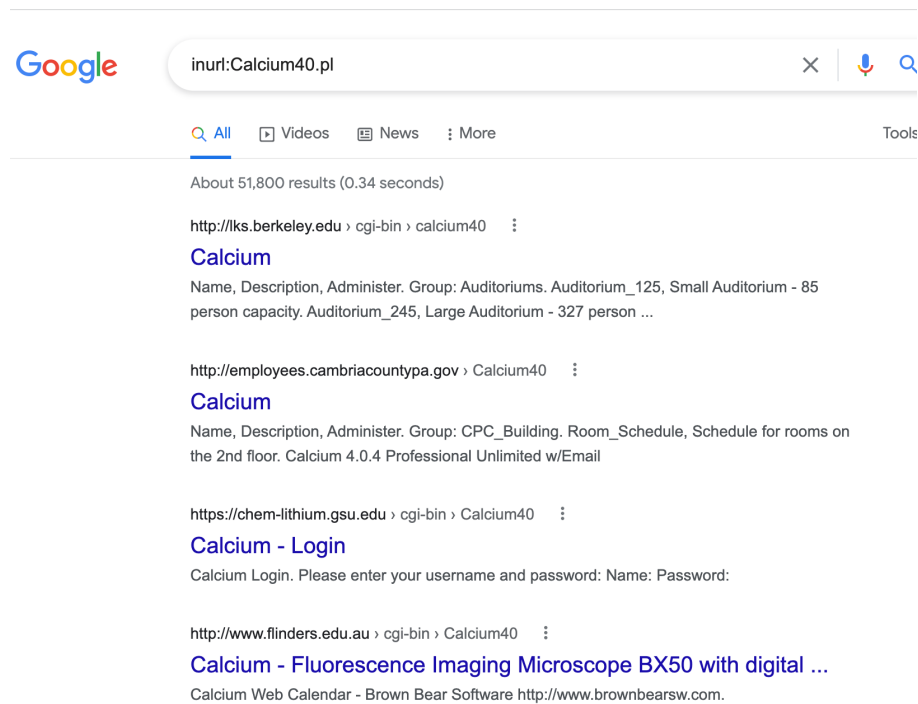
And the content:



Pay attention to:

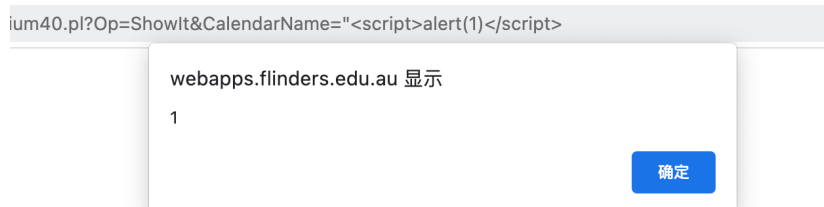
[http://www.example.com/cgi-bin/Calcium40.pl?Op=ShowIt&CalendarName=\[xss\]](http://www.example.com/cgi-bin/Calcium40.pl?Op=ShowIt&CalendarName=[xss])

Search the URL which contains key word:



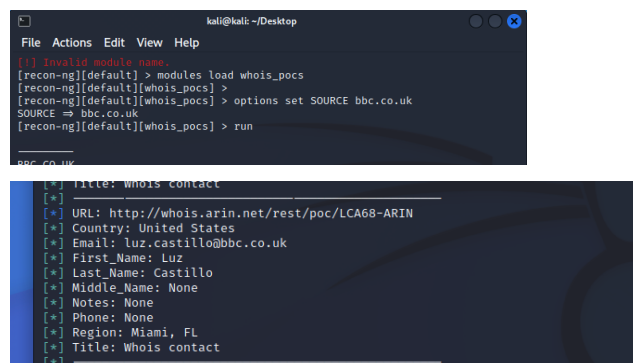
Test one of them: We could configurate specific js script to make it able to run, such as

[https://webapps.flinders.edu.au/cgi-bin/Calcium40.pl?Op=ShowIt&CalendarName="<script>alert\(1\)</script>](https://webapps.flinders.edu.au/cgi-bin/Calcium40.pl?Op=ShowIt&CalendarName=\)



Question 3

Install tools: **marketplace install whois_pocs**



The name is **Luz Castillo**

Question 4

(1) Using **dig dunstan.org.au**

```
; <<> DiG 9.10.6 <<> dunstan.org.au
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 22788
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0

;; QUESTION SECTION:
;dunstan.org.au.                IN      A

;; ANSWER SECTION:
dunstan.org.au.                900     IN      A      151.101.194.159

;; Query time: 521 msec
;; SERVER: 192.168.0.1#53(192.168.0.1)
;; WHEN: Sat Apr 02 11:18:17 CST 2022
;; MSG SIZE rcvd: 48
```

The IP address is 151.101.194.159

(2) Using **dig -x 151.101.194.159**

```
; <<> DiG 9.10.6 <<> -x 151.101.194.159
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NXDOMAIN, id: 34822
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 0

;; QUESTION SECTION:
;159.194.101.151.in-addr.arpa.  IN      PTR

;; AUTHORITY SECTION:
151.in-addr.arpa.              3600    IN      SOA     pri.authdns.ripe.net. dns.ripe.net. 1648818962 3600 600 864000 3600

;; Query time: 266 msec
;; SERVER: 192.168.0.1#53(192.168.0.1)
;; WHEN: Sat Apr 02 11:19:34 CST 2022
;; MSG SIZE rcvd: 106
```

Domain names: pri.authdns.ripe.net. dns.ripe.net.

(3) Using **whois 151.101.194.159**

```
OrgName:      Fastly
OrgId:        SKYCA-3
Address:      PO Box 78266
City:         San Francisco
StateProv:    CA
PostalCode:   94107
Country:      US
RegDate:      2011-09-16
Updated:      2021-09-20
Ref:          https://rdap.arin.net/registry/entity/SKYCA-3
```

The owner is **Fastly**

(4) The IP range is **151.101.0.0 - 151.101.255.255**

```
NetRange:      151.101.0.0 - 151.101.255.255
CIDR:          151.101.0.0/16
NetName:       SKYCA-3
NetHandle:     NET-151-101-0-1
```

(5) The ASN number is **54113**

151.101.194.159

Regular ViewRaw DataHistory

// TAGS:cdn

General Information

Hostnames

arcarecyclinginc.com, www.arcarecyclinginc.com

Domains

ARCARECYCLINGINC.COM

Country

United States

City

San Francisco

Organization

Fastly

ISP

Fastly

ASN

AS54113

(6) Using online tools: <https://mxtoolbox.com/SuperTool.aspx>

Total amount of IPs for this ASN: 524,880			
As Number	As Name	CIDR Range	Monitor
54113	Fastly	23.154.64.0/24	Monitor this
54113	Fastly	23.185.0.0/24	Monitor this
54113	Fastly	23.235.32.0/21	Monitor this
54113	Fastly	23.235.40.0/24	Monitor this
54113	Fastly	23.235.42.0/23	Monitor this
54113	Fastly	23.235.44.0/22	Monitor this
54113	Fastly	43.249.72.0/24	Monitor this
54113	Fastly	43.249.74.0/24	Monitor this
54113	Fastly	103.245.222.0/23	Monitor this
54113	Fastly	103.245.224.0/24	Monitor this
54113	Fastly	104.156.80.0/21	Monitor this

Question 5

(1)

SHODAN

Explore

Downloads

Pricing

Pfizer port:264

TOTAL RESULTS

1

View Report

View on Map

New Service: Keep track of what you have connected to the Internet. Check out [Shodan Monitor](#)

54.161.168.179

ec2-54-161-168-179.co
mpute-1.amazonaws.co
m
[Amazon Technologies Inc.](#)
 United States, Ashburn

CheckPoint:
Firewall Host: **Pfizer**-GW-01
SmartCenter Host: mgmt-aws

(2) org:'Pfizer' product:'IIS'

SHODAN

Explore

Downloads

Pricing

org:Pfizer product:'IIS'

TOTAL RESULTS

3

TOP VERSIONS

8.02

10.01

View Report

Download Results

Historical Trend

View on Map

New Service: Keep track of what you have connected to the Internet. Check out [Shodan Monitor](#)

148.168.102.171

bolino.pfizer.com

www.bolino.pfizer.com

Pfizer Inc.

United States, Newark

SSL Certificate

Issued By:

- Common Name:

Entrust Certification Authority - L1K

- Organization:

Entrust, Inc.

Issued To:

- Common Name:

bolino.pfizer.com

- Organization:

Pfizer Incorporated

Supported SSL Versions:

TLSv1.2, TLSv1.3

HTTP/1.1 200 OK

Date: Sun, 03 Apr 2022 12:23:27 GMT

Server: Microsoft-IIS/10.0

Cache-Control: private

Content-Type: text/html; charset=utf-8

X-AspNet-Version: 4.0.30319

X-Frame-Options: SAMEORIGIN

Content-Length: 13689

Set-Cookie: ASP.NET_SessionId=0y3qnxcatu5n23figielovhi; path=/;

Microsoft Internet Information Services 8

148.168.102.245

www.owaspdmz.pfizer.com

ecfpartner2013-mdh.pfizer.com

SSL Certificate

Issued By:

- Common Name:

HTTP/1.1 200 OK

Content-Type: text/html

Last-Modified: Thu, 22 Oct 2020 17:03:34 GMT

We see 8.0 and 10.0

(3) CVE-2014-4078

Vulnerabilities

Note: the device may not be impacted by all of these issues. The vulnerabilities are implied based on the software and version.

CVE-2014-4078

The IP Security feature in Microsoft Internet Information Services (IIS) 8.0 and 8.5 does not properly process wildcard allow and deny rules for domains within the "IP Address and Domain Restrictions" list, which makes it easier for remote attackers to bypass an intended rule set via an HTTP request, aka "IIS Security Feature Bypass Vulnerability."

(4) (AV:N/AC:H/Au:N/C:P/I:P/A:P)

Current Description

The IP Security feature in Microsoft Internet Information Services (IIS) 8.0 and 8.5 does not properly process wildcard allow and deny rules for domains within the "IP Address and Domain Restrictions" list, which makes it easier for remote attackers to bypass an intended rule set via an HTTP request, aka "IIS Security Feature Bypass Vulnerability."

View Analysis Description

Severity

CVSS Version 3.x

CVSS Version 2.0

CVSS 2.0 Severity and Metrics:

NVD

NIST: NVD

Base Score: 5.1 MEDIUM

Vector: (AV:N/AC:H/Au:N/C:P/I:P/A:P)

NVD Analysts use publicly available information to associate vector strings and CVSS scores. We also display any CVSS information provided within the CVE List from the CNA.

Note: NVD Analysts have published a CVSS score for this CVE based on publicly available information at the time of analysis. The CNA has not provided a score within the CVE List.

Question 6

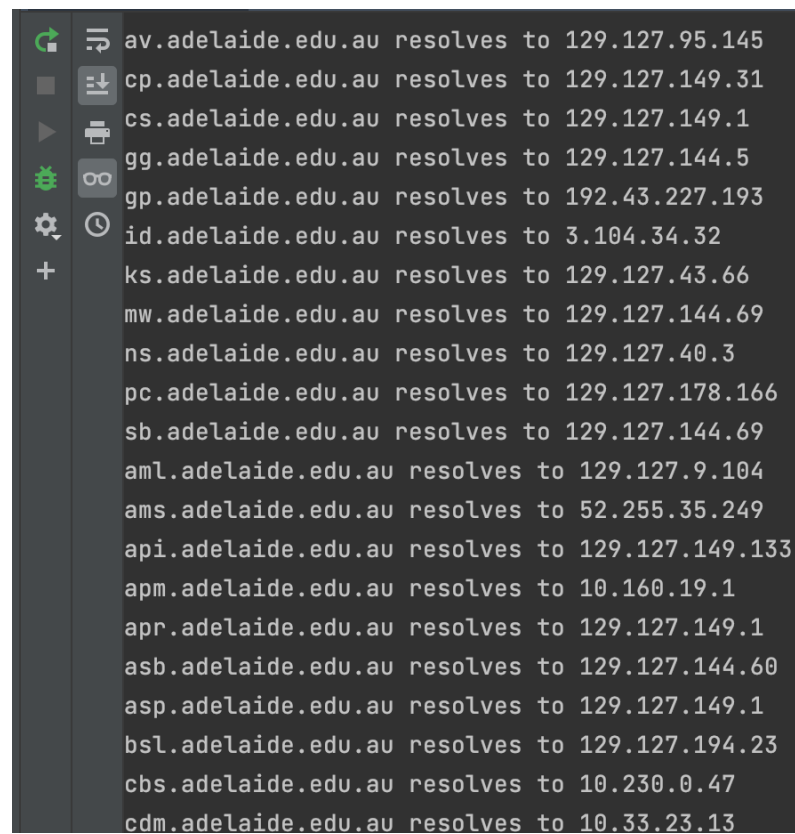
The python code for this question:

```

import sys, socket
socket.setdefaulttimeout(0.1)
base = "adelaide.edu.au"
with open("dnsmap.txt") as f:
    for line in f:
        try:
            host = line.strip()+ "." + base
            ip = socket.gethostbyname(host)
            print(f"{host} resolves to {ip}")
        except:
            pass

```

The result:



```

av.adelaide.edu.au resolves to 129.127.95.145
cp.adelaide.edu.au resolves to 129.127.149.31
cs.adelaide.edu.au resolves to 129.127.149.1
gg.adelaide.edu.au resolves to 129.127.144.5
gp.adelaide.edu.au resolves to 192.43.227.193
id.adelaide.edu.au resolves to 3.104.34.32
ks.adelaide.edu.au resolves to 129.127.43.66
mw.adelaide.edu.au resolves to 129.127.144.69
ns.adelaide.edu.au resolves to 129.127.40.3
pc.adelaide.edu.au resolves to 129.127.178.166
sb.adelaide.edu.au resolves to 129.127.144.69
aml.adelaide.edu.au resolves to 129.127.9.104
ams.adelaide.edu.au resolves to 52.255.35.249
api.adelaide.edu.au resolves to 129.127.149.133
apm.adelaide.edu.au resolves to 10.160.19.1
apr.adelaide.edu.au resolves to 129.127.149.1
asb.adelaide.edu.au resolves to 129.127.144.60
asp.adelaide.edu.au resolves to 129.127.149.1
bsl.adelaide.edu.au resolves to 129.127.194.23
cbs.adelaide.edu.au resolves to 10.230.0.47
cdm.adelaide.edu.au resolves to 10.33.23.13

```

Question 7

Now:

← → ↻ access.adelaide.edu.au/sa/login.asp

The University of Adelaide

Access Adelaide

Login

Username:

Password:

Login

[Need Some Help?](#)
[Forgotten your password?](#)

© 2022 The University of Adelaide
Last Modified 27/03/2014 [Ask Adelaide](#)
CRICOS Provider Number 00123M

10 years ago:

← → ↻ web.archive.org/web/20120320084539/https://access.adelaide.edu.au/sa/login.asp

INTERNET ARCHIVE
Wayback Machine
200 captures
9 Apr 2004 – 18 Mar 2022

https://access.adelaide.edu.au/sa/login.asp

The University of Adelaide

Access Adelaide

Login

Username:

Password:

Login

Please note: Access Adelaide is unavailable due to backup from 1:30am ea

[Need Some Help?](#)
[Forgotten your password?](#)

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Last Modified 14/12/2011 [Student Centre](#)
CRICOS Provider Number 00123M

We can find that Access Adelaide has really not changed much in the last 10 years.

Question 8

Using nmap scan the port of HackLab-VM: `nmap -p 20000-60000 192.168.229.130`

```
(kali㉿kali)-[~/Desktop]
└─$ nmap -p 20000-60000 192.168.229.130
Starting Nmap 7.92 ( https://nmap.org ) at 2022-04-03 10:09 EDT
Nmap scan report for 192.168.229.130
Host is up (0.00096s latency).
Not shown: 40000 filtered tcp ports (no-response)
PORT      STATE SERVICE
55554/tcp  open  unknown

Nmap done: 1 IP address (1 host up) scanned in 71.37 seconds
```

We could find that the port 55554 is opened.

Then using netcat to find information: `netcat 192.168.229.130 55554`

```
(kali㉿kali)-[~/Desktop]
$ netcat 192.168.229.130 55554

< csf2022_{mustard-request-chaos} >

SUMMARY \ ^ ^
         \ (oo)\_____
[recon-ng][defa ( _)\_ (com)\/\ found.
[recon-ng][defa ||——w | _pocs] >
[recon-ng][defa || ||_wp | _pocs] >
[recon-ng][defa || ||_wp | _pocs] >
```

Question 9

```
netcat 192.168.229.130 12345

(kali㉿kali)-[/etc]
$ netcat 192.168.229.130 12345

< csf2022_{reapprove-willfully-sharpener} >

SUMMARY \ ^ ^
         \ (oo)\_____
[recon-ng][defa ( _)\_ (com)\/\ found.
[recon-ng][defa ||——w | _pocs] >
[recon-ng][defa || ||_wp | _pocs] >
```