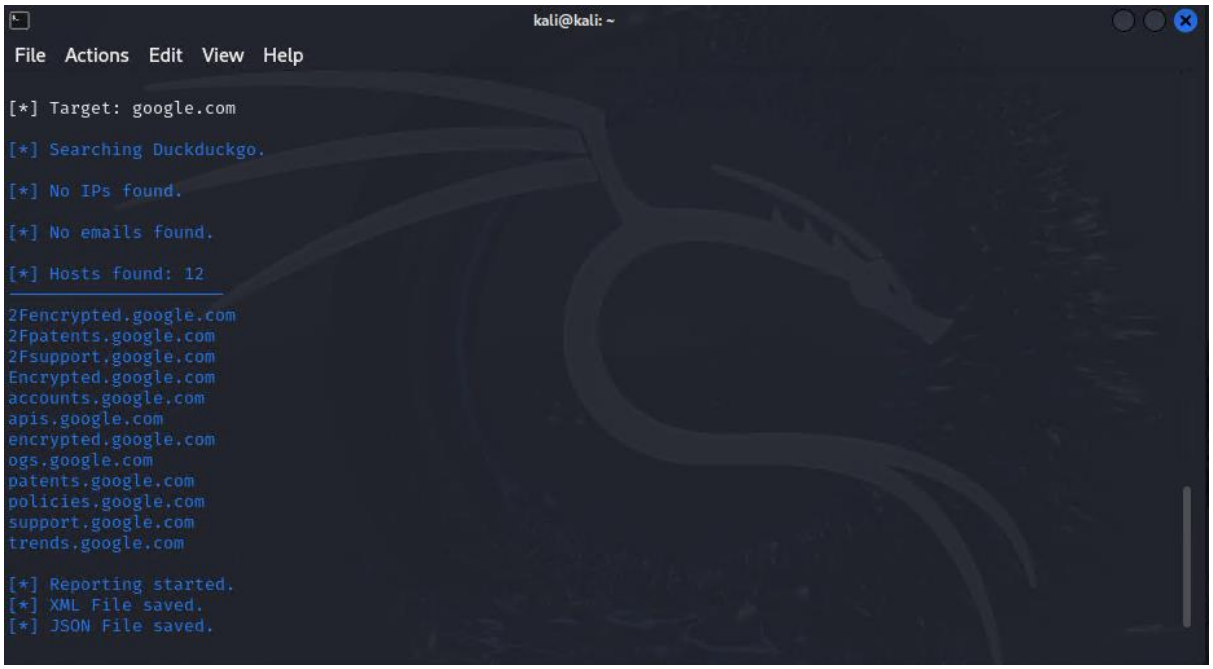
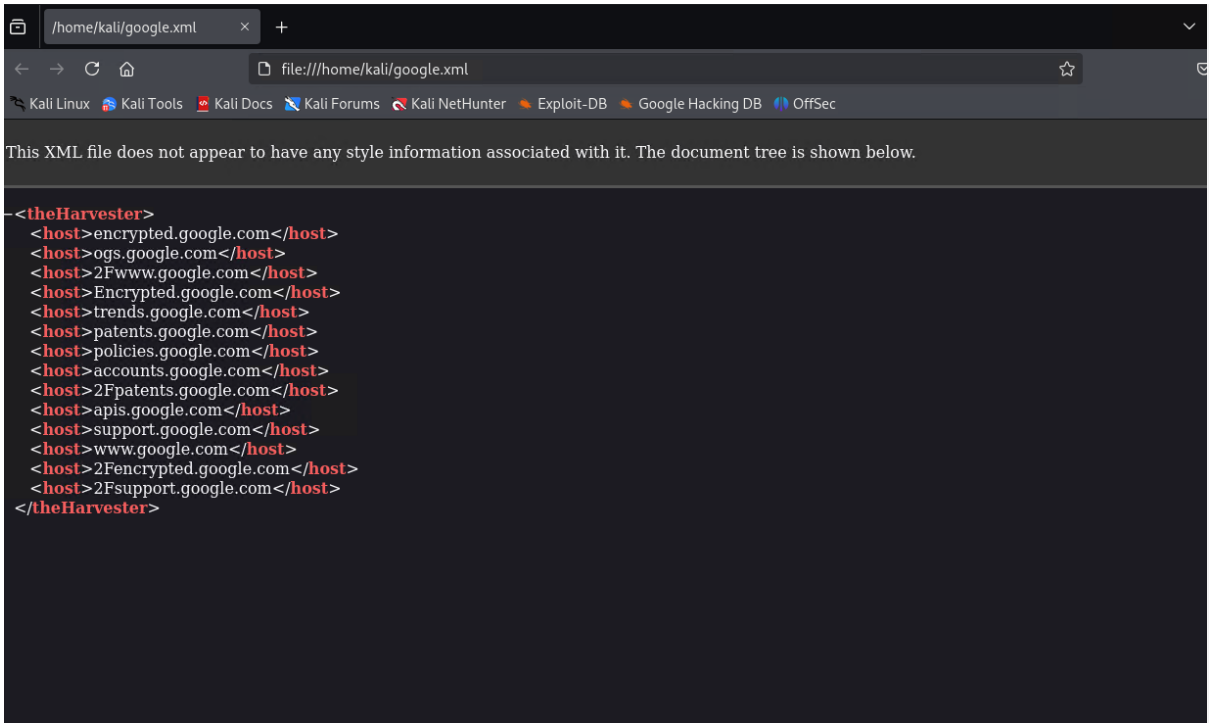
Lab 1

Ran harvester against google.com

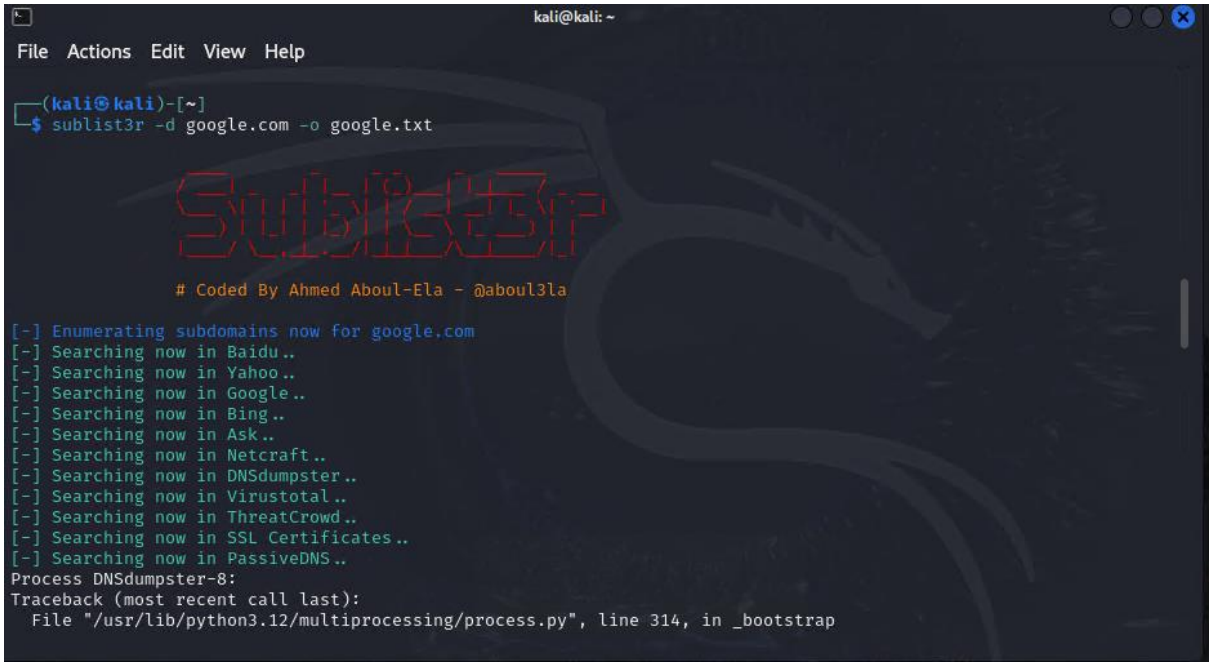


Information listed

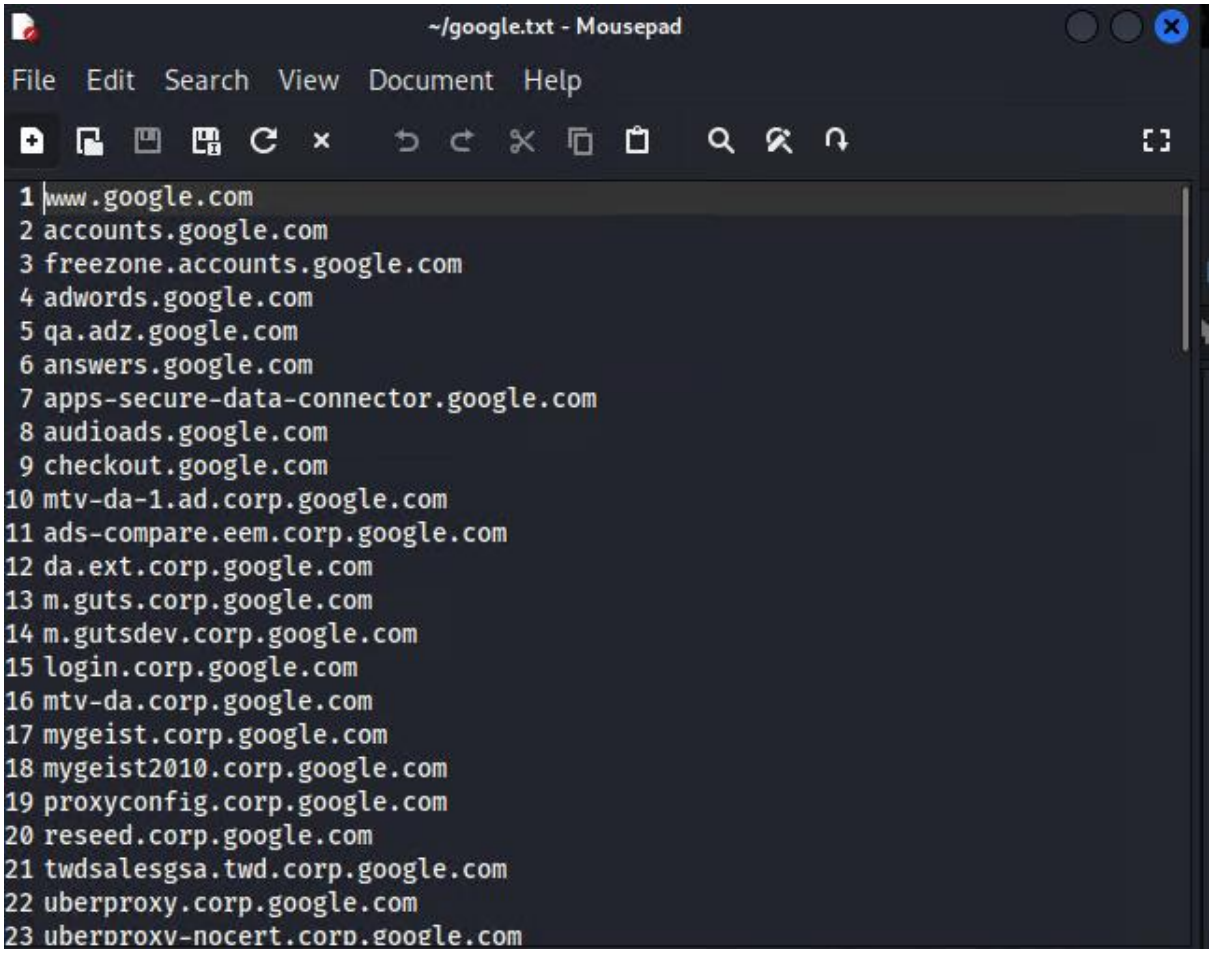


Also able to view through xml file but the content is same

help command of sublist3r



ran the scan using sublist3r

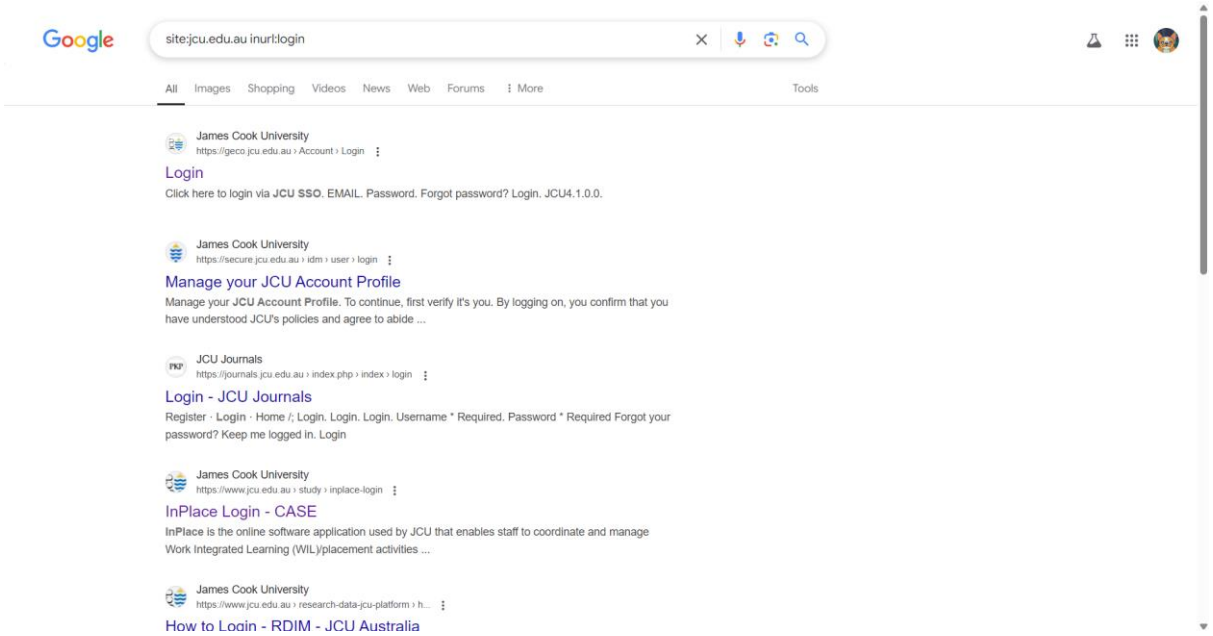


there are loads of urls when scanned through sublist3r

This thing happens because compared to theHarvester, sublsit3r uses multiple search engines to gather information, and when theHarvester is doing information gathering, it requires api keys while sublist3r does not

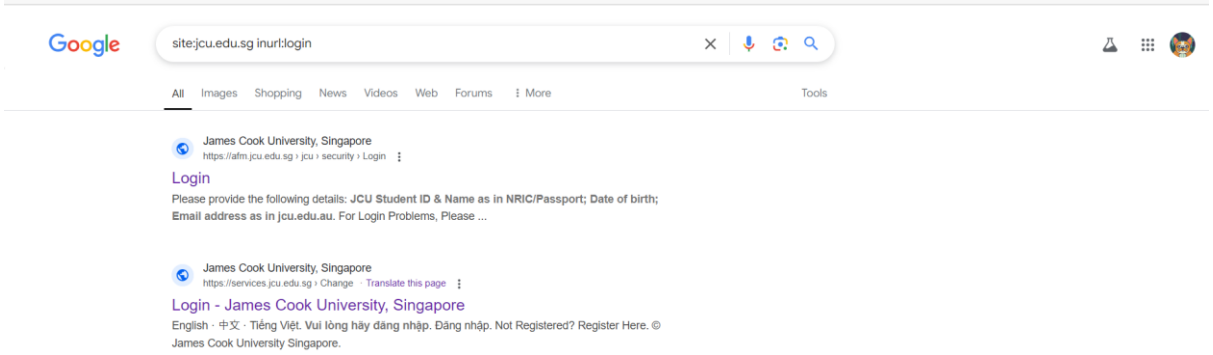
Following the difference, when gathering information for hacking purposes, using sublist3r is beneficial due to its wide range of gathering related information

Lab 2



Firstly searched login pages of jcu.edu.au

There were multiple pages of login



But when searched Singapore there were only 2 results

I think this happens because when logging into jcu server, we pass through au domain either campus

Our learn jcu portal's domain is au

Google dorking could be effective when finding the main domain of a enterprise or schools like jcu, because if such thing similar to sg and au happens, the attacker will instantly notice au is where the jcu main campus is located

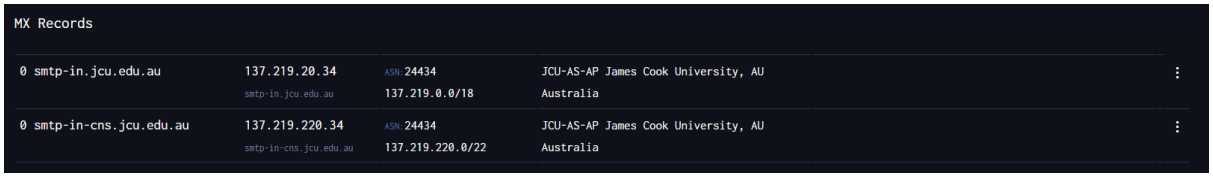
Lab 3

NS Records

ns0200.secondary.cloudflare.com	162.159.33.75 ns0200.secondary.cloudflare.com	ASN 13335 162.159.32.0/23	CLOUDFLARENET	http: cloudflare title: Direct IP access not allowed tech: Cloudflare http8080: cloudflare title: Direct IP access not allowed tech: Cloudflare
ns0074.secondary.cloudflare.com	162.159.32.75 ns0074.secondary.cloudflare.com	ASN 13335 162.159.32.0/23	CLOUDFLARENET	http: cloudflare title: Direct IP access not allowed tech: Cloudflare http8080: cloudflare title: Direct IP access not allowed tech: Cloudflare

162.159.33.75 and 162.159.32.75 is the ns ip address

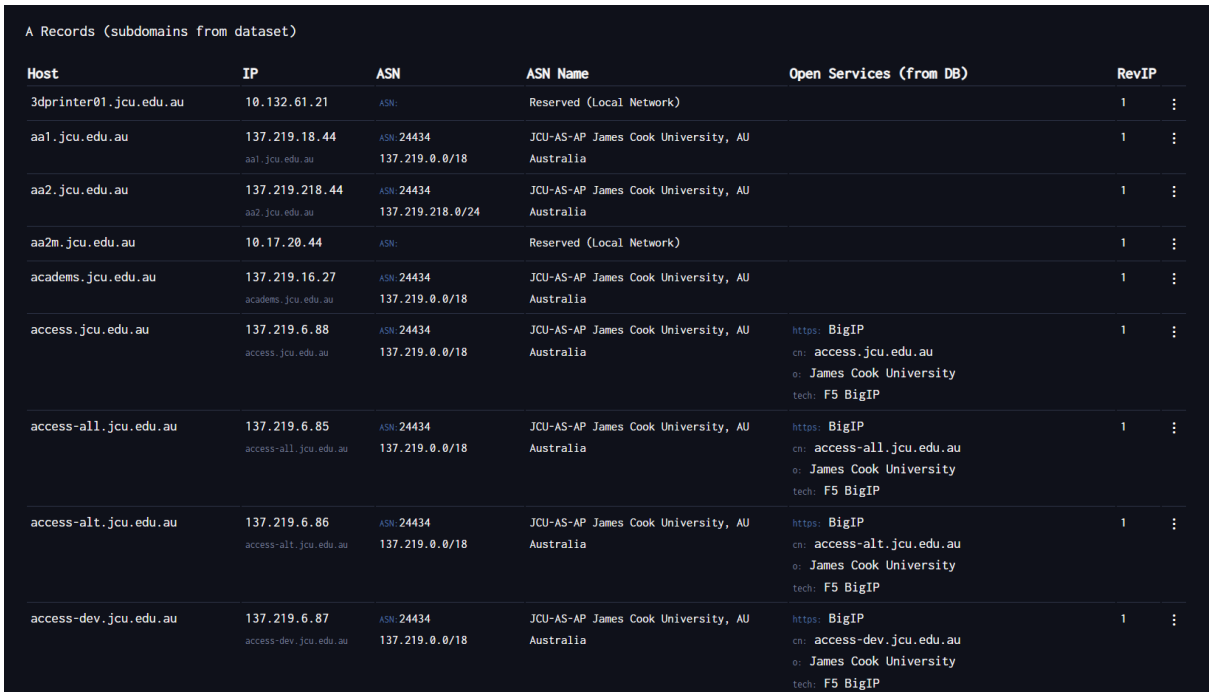
The ip belongs to cloudflare from here we can know that jcu uses cloudflare as dns provider



MX Records

0 smtp-in.jcu.edu.au	137.219.20.34 smtp-in.jcu.edu.au	ASN 24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia
0 smtp-in-cns.jcu.edu.au	137.219.220.34 smtp-in-cns.jcu.edu.au	ASN 24434 137.219.220.0/22	JCU-AS-AP James Cook University, AU Australia

137.219.20.34 and 137.219.220.34



A Records (subdomains from dataset)

Host	IP	ASN	ASN Name	Open Services (from DB)	RevIP
3dprinter01.jcu.edu.au	10.132.61.21	ASN:	Reserved (Local Network)		1
aa1.jcu.edu.au	137.219.18.44 aa1.jcu.edu.au	ASN 24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
aa2.jcu.edu.au	137.219.218.44 aa2.jcu.edu.au	ASN 24434 137.219.218.0/24	JCU-AS-AP James Cook University, AU Australia		1
aa2m.jcu.edu.au	10.17.20.44	ASN:	Reserved (Local Network)		1
academs.jcu.edu.au	137.219.16.27 academs.jcu.edu.au	ASN 24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
access.jcu.edu.au	137.219.6.88 access.jcu.edu.au	ASN 24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia	https: BigIP cn: access.jcu.edu.au o: James Cook University tech: F5 BigIP	1
access-all.jcu.edu.au	137.219.6.85 access-all.jcu.edu.au	ASN 24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia	https: BigIP cn: access-all.jcu.edu.au o: James Cook University tech: F5 BigIP	1
access-alt.jcu.edu.au	137.219.6.86 access-alt.jcu.edu.au	ASN 24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia	https: BigIP cn: access-alt.jcu.edu.au o: James Cook University tech: F5 BigIP	1
access-dev.jcu.edu.au	137.219.6.87 access-dev.jcu.edu.au	ASN 24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia	https: BigIP cn: access-dev.jcu.edu.au o: James Cook University tech: F5 BigIP	1

				cn: secure.levartdistributionsystems.com.au tech: Apache HTTP Server		
saintscatholiccollege.accommodation.jcu.edu.au	103.10.8.50 web.levart.com.au	ASN:38830 103.10.8.0/24	LEVART-AS-AU-AP Levart Distribution Systems Pty Ltd, AU Australia	http: Apache title: 403 Forbidden tech: Apache HTTP Server https: Apache title: 403 Forbidden cn: secure.levartdistributionsystems.com.au tech: Apache HTTP Server	1009	⋮
www.saintscatholiccollege.accommodation.jcu.edu.au	103.10.8.50 web.levart.com.au	ASN:38830 103.10.8.0/24	LEVART-AS-AU-AP Levart Distribution Systems Pty Ltd, AU Australia	http: Apache title: 403 Forbidden tech: Apache HTTP Server https: Apache title: 403 Forbidden cn: secure.levartdistributionsystems.com.au tech: Apache HTTP Server	1009	⋮
ad-bdc-dc-1.jcu.edu.au	137.219.218.13 ad-bdc-dc-1.ad.jcu.edu.au	ASN:24434 137.219.218.0/24	JCU-AS-AP James Cook University, AU Australia		1	⋮
ad-bdc-dc-2.jcu.edu.au	137.219.218.14 ad-bdc-dc-2.ad.jcu.edu.au	ASN:24434 137.219.218.0/24	JCU-AS-AP James Cook University, AU Australia		1	⋮
ad-tdc-ca-1.jcu.edu.au	137.219.18.21 ad-tdc-ca-1.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1	⋮
ad-tdc-dc-1.jcu.edu.au	137.219.18.11 ad-tdc-dc-1.ad.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1	⋮
ad-tdc-dc-2.jcu.edu.au	137.219.18.12 ad-tdc-dc-2.ad.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1	⋮
adfs.jcu.edu.au	137.219.20.61 adfs.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1	⋮

adfs-test.jcu.edu.au	137.219.20.80 adfs-test.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
aims.jcu.edu.au	45.42.212.136 ips136.securednshost.com	ASN:13649 45.42.212.0/24	ASN-FLEXENTIAL United States	ftp: 20- Welcome to Pure-FTPd privsep TLS - 20-You are user number 1 of 50 alowed. 20- Local time is now 1 http: Apache tech: Apache HTTP Server https: Apache title: Index of / cn: .betta.mobi tech: Apache HTTP Server	516
aimswebbox.jcu.edu.au	137.219.5.12 aimswebbox.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
airflow.jcu.edu.au	137.219.20.159 airflow.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
airflow-dev01.jcu.edu.au	137.219.20.135 airflow-dev01.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
airflow-dev02.jcu.edu.au	137.219.20.138 airflow-dev02.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
airflow-dl.jcu.edu.au	137.219.20.158 airflow-dl.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
airflow-uat.jcu.edu.au	137.219.20.144 airflow-uat.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
aithm.jcu.edu.au	101.0.92.98 ded116126.smartservers.com.au	ASN:55803 101.0.64.0/18	HOSTOPIA-AU Hostopia Australia Web Pty Ltd, AU Australia	http: Apache tech: Apache HTTP Server	
www.aithm.jcu.edu.au	101.0.92.98 ded116126.smartservers.co	ASN:55803 101.0.64.0/18	HOSTOPIA-AU Hostopia Australia Web Pty Ltd, AU	http: Apache tech: Apache HTTP Server	

xargo.aithm.jcu.edu.au	101.0.92.98 ded116126.smartservers.com.au	ASN:55803 101.0.64.0/18	HOSTOPIA-AU Hostopia Australia Web Pty Ltd, AU Australia	http: Apache tech: Apache HTTP Server	
aithmtrf.jcu.edu.au	54.252.90.196 cp1.awsia.com	ASN:16509 54.252.0.0/17	AMAZON-02 Australia		20
alesco.jcu.edu.au	137.219.23.126 alesco.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
alesco-dev02.jcu.edu.au	137.219.23.176 rims-dev1.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		2
alesco-dev03.jcu.edu.au	137.219.23.182 alesco-dev03.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
alesco-sup01.jcu.edu.au	137.219.20.162 idcard-admin.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		
alesco-test02.jcu.edu.au	137.219.23.170 alesco-test02.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
alesco-train02.jcu.edu.au	137.219.23.173 alesco-train02.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
alesco-tst02.jcu.edu.au	137.219.20.165 alesco-tst02.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
alesco-uat02.jcu.edu.au	137.219.23.179 alesco-uat02.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
amxrms.jcu.edu.au	137.219.23.101 amxrms.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
amxrmsdb01.jcu.edu.au	137.219.23.102 amxrmsdb01.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1
angler.jcu.edu.au	137.219.3.32 angler.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1

anypoint.jcu.edu.au	137.219.20.11 anypoint.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1	⋮
anypoint-test.jcu.edu.au	137.219.23.30 anypoint-test.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1	⋮
anypoint-uat.jcu.edu.au	137.219.23.31 anypoint-uat.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1	⋮
api.jcu.edu.au	137.219.20.137 api.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia	https: unknown server cn: api.jcu.edu.au o: James Cook University	1	⋮
api-designer.jcu.edu.au	137.219.20.66 api-designer.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1	⋮
api-test.jcu.edu.au	137.219.23.32 api-test.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia	https: unknown server cn: .api-test.jcu.edu.au o: James Cook University		⋮
api-uat.jcu.edu.au	137.219.23.33 api-uat.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1	⋮
artifactory.jcu.edu.au	137.219.20.96 artifactory.jcu.edu.au	ASN:24434 137.219.0.0/18	JCU-AS-AP James Cook University, AU Australia		1	⋮

There are a lot records of A record

137.219.218.13

137.219.218.14

137.219.18.21

137.219.18.11

137.219.18.12

These ip addresses have ad which is active directory controlling services, possibly be used as ldap server

Ns records show dns sesrvers

Mx records show email servers where received email of jcu is handled

A records show ip address of domain name and their ip addresses

Dns dumpster helps in mapping the attack surface, identifying subdomains

But the accuracy is not certified and only 50 results were visible limiting the information for hackig