



الكلية الذكية للتعليم الحديث
SMART COLLEGE FOR MODERN EDUCATION

نبني المستقبل بذكاء

MOBILE FORENSICS

التحليل الجنائي لأجهزة الهواتف الذكية



By: Mohammed Adnan Moreb, Ph.D.

Smart College for Modern Education (SCME)

Hebron, Palestine, P.O. Box 777

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Dr. Moreb Researchs:

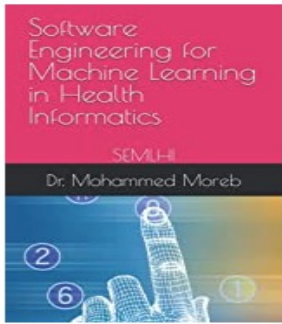
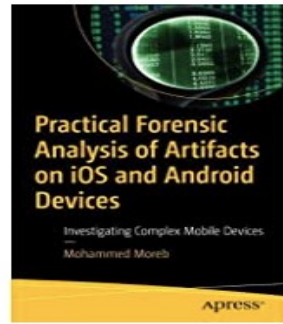
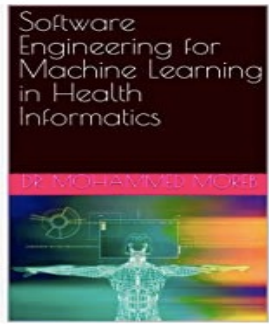
- 3 Books
- Journal Articles - 12 articles
- Conference articles – 30 (ML+ Security + IVG+)
- Supervisor for master research students – 5 (ongoing) + 3 complete



Dr. Mohammed Adnan Moreb

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Software Engineering for Modern Web Applications: Requirement, Design, and Implementation

Mohammed Adnan Moreb (Arab American University Palestine (AAUP), Palestinian Territory)

Pages: 300
DOI: 10.4018/978-1-6684-4844-1
ISBN13: 9781668448441 | ISBN10: 1668448440 | EISBN13: 9781668448465 | ISBN13 Softcover: 9781668448458



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Practical use ChatGpt in Classroom

يوم الأربعاء



20:30-19:00
بتوقيت القدس

18:30-17:00
بتوقيت المغرب



أ.د نمر بياعة

رئيس مركز تكنولوجيا
المعلومات والاتصالات

أكاديمية القاسمي



د. هدى شايب

محاضرة ومركزة
البيداغوجيا المبتكرة

أكاديمية القاسمي



د. أسماء الغازي

أستاذة ورئيسة قسم
تكنولوجيا المعلومات

المدرسة العليا للإدارة
والاتصالات وعلوم الحاسوب



د. محمد مرعب

نائب الرئيس للشؤون
الأكاديمية

الكلية الذكية للتعليم الحديث



رابط اللقاء

تنقسم الورشة إلى 3 محاضرات متتالية، كل متحدث 20 دقيقة،
ويتم فتح نقاش مع الجمهور لمدة نصف ساعة (30 دقيقة) بعد انتهاء عرض المحاضرات.

Text



ChatGPT
OpenAI



ChatGPT is fine-tuned from GPT-3.5, a language model trained to produce text.

Free



GPT-4
OpenAI



GPT-4 is OpenAI's most advanced system, producing safer and more useful responses



Notion AI
Notion



A connected assistant which produces text responses based on user's questions and the current page context.

Free

Image



Stable Diffusion
Stability.ai



A deep learning, text-to-image model, used to generate detailed images conditioned on text descriptions.

Free



Image Creator
Microsoft Bing



Image Creator generates AI images based on your text

Free



Midjourney
Midjourney



Midjourney is an AI program which generates images from natural language descriptions(prompts).

Free

Video



Runway
Runway



A multi-modal AI system that can generate novel videos with text, images, or video clips.

Free



Fliki
Fliki



Fliki is a text to video and text to speech creator powered by generative AI.

Free



Wonder...
Wonder Studio



An AI tool that automatically animates, lights and composes CG characters into a live-action scene

Free

Audio



JukeBox
OpenAI



A neural net that generates music, including rudimentary singing, as raw audio in a variety of genres and artist..

Free



MusicLM
Google Research



MusicLM is an AI model that can generate high-fidelity music from text.

Free



Text to Speech
Microsoft Azure



AI voice generators to speak naturally using synthesized speech from input text

Free

3D



Point-E
OpenAI



A system for generating 3D point clouds from complex prompts

Free



Magic3D
NVIDIA



Magic3D is a new text-to-3D content creation tool that creates 3D mesh models with unprecedented quality.

Free



Imagine 3D
Luma AI



An early experiment to prototype and create 3D with text.

Free

Coding



Copilot X
Github



An AI pair programmer with an early adoption of OpenAI's GPT-4

Free



Codex
OpenAI



An AI system that translates natural language to code

Free



CodeWhisperer
Amazon



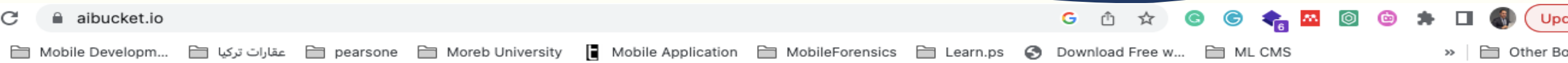
CodeWhisperer can generate code suggestions ranging from snippets to full functions based on your comments and..

Free

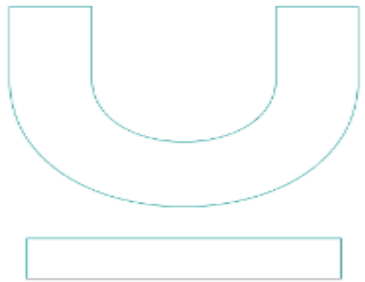
تصنيف ادوات الذكاء الاصطناعي حسب البيانات المدخلة



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Cre8tive AI

cre8tiveAI



Steve AI

Steve AI



DeepBrain AI



Elai AI

ELAI



Kamua AI

kamua



Opus Clip AI

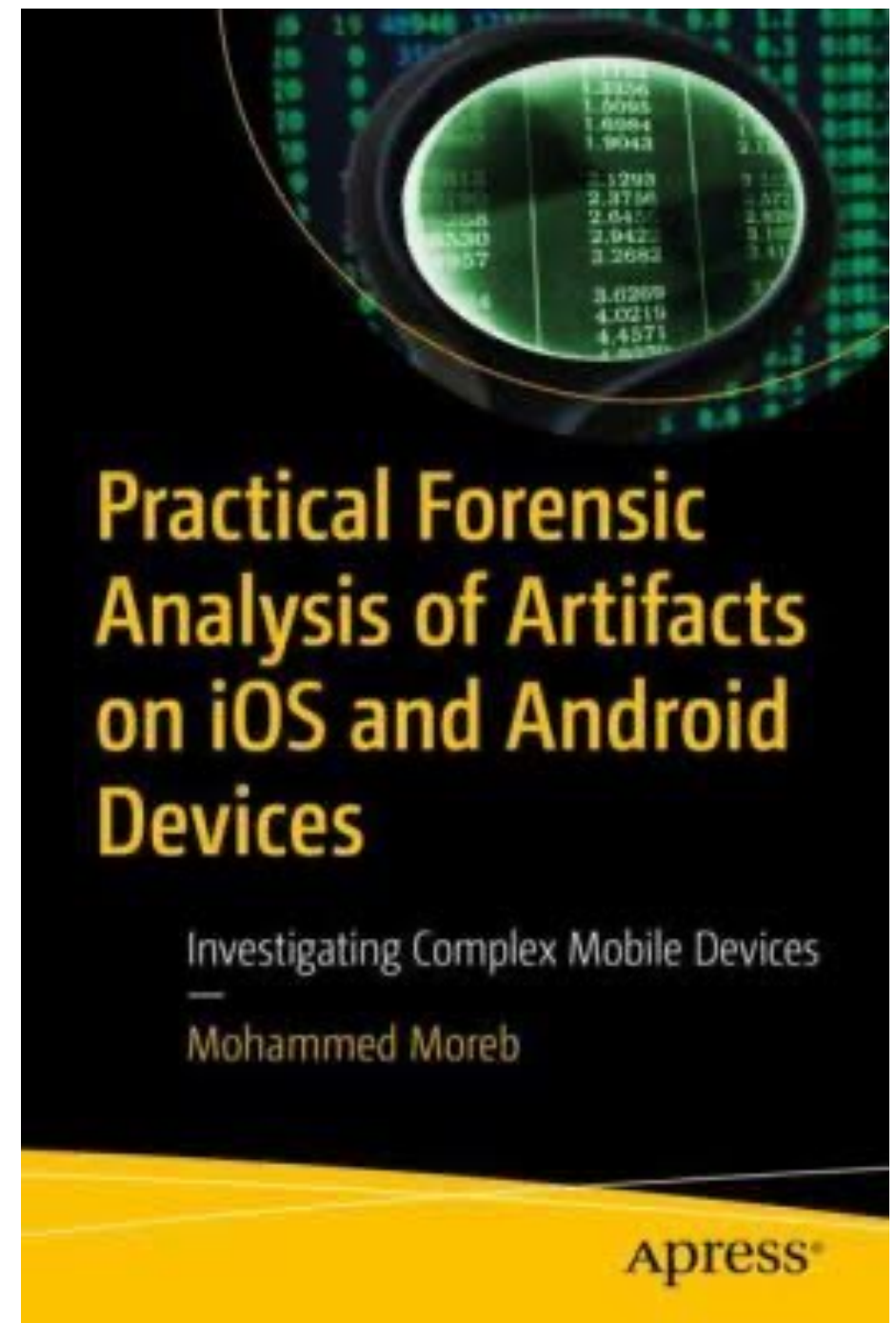
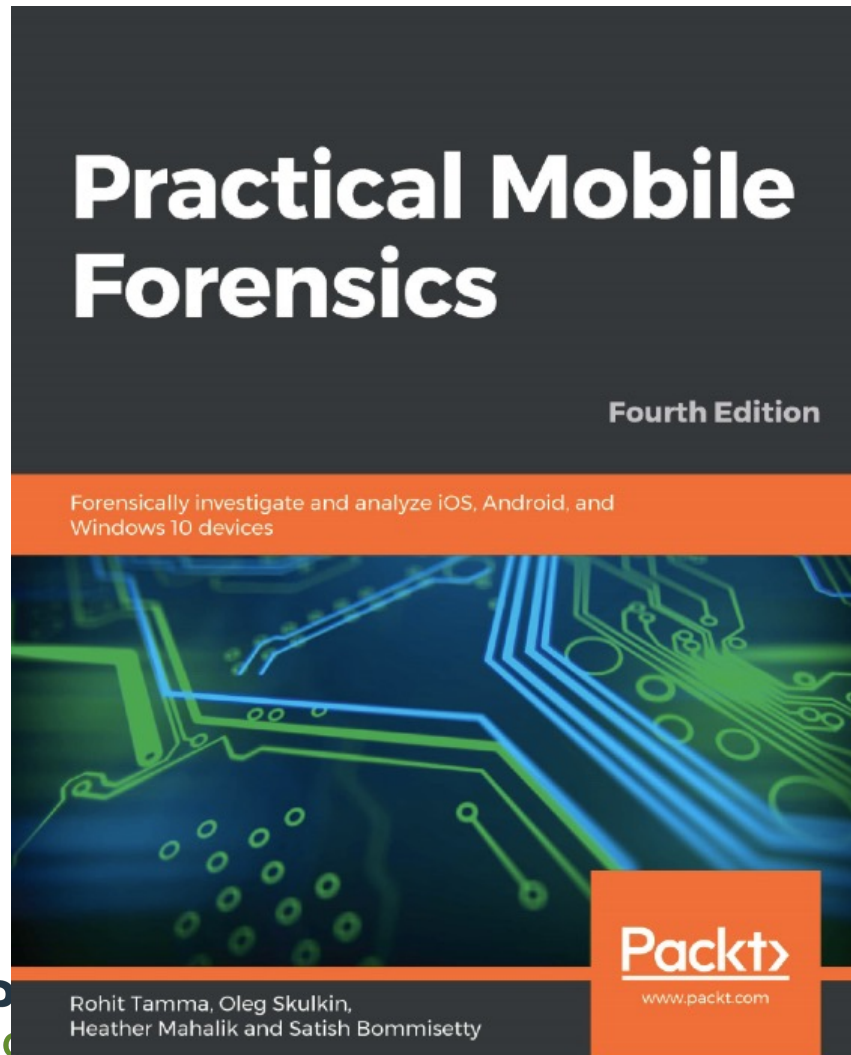


COURSE OUTLINE DISCUSSION

<https://moodle.scme.edu.ps/course/view.php?id=530#section-0>



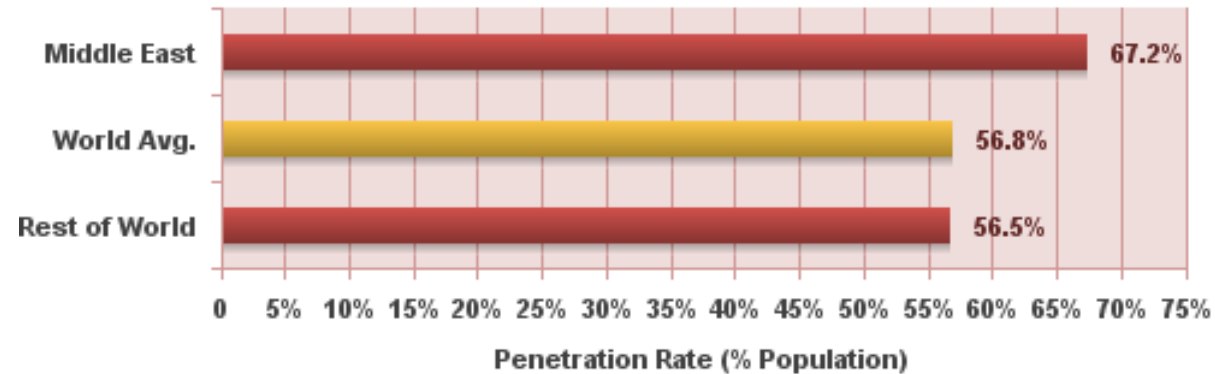
Books and References ...



INTERNET USERS IN THE MIDDLE EAST AND THE WORLD IN 2021

<u>MIDDLE EAST REGION</u>	Population (2021 Est.)	Pop. % of World	Internet Users 31-DEC-2020	% Population (Penetration)	Internet % Users	Facebook 31-DEC-2020
<u>Total Middle East</u>	265,587,661	3.4 %	188,132,198	70.8 %	3.7 %	143,741,600
<u>Rest of the World</u>	7,610,177,923	96.6 %	4,910,331,574	64.5 %	96.3 %	2,585,782,501
WORLD TOTAL	7,875,765,584	100.0 %	5,098,463,772	64.7 %	100.0 %	2,729,524,101

Internet Penetration in the Middle East in April 30, 2019



Source: Internet World Stats - www.internetworldstats.com/stats5.htm
 173,542,069 Internet users in the Middle East estimated in April 2019
 Copyright © 2019, Miniwatts Marketing Group



Middle East Internet Users, Population and Facebook Statistics 2021

<u>MIDDLE EAST</u>	Population (2021 Est.)	Users, in Dec/2000	Internet Usage 31-Dec-2020	% Population (Penetration)	Internet % users	Facebook 31-DEC- 2020
<u>Bahrain</u>	1,748,296	40,000	1,707,533	97.7 %	0.9 %	1,445,600
<u>Iran</u>	85,028,759	250,000	67,602,731	79.5 %	35.9 %	40,000,000
<u>Iraq</u>	41,179,350	12,500	24,525,000	59.6 %	13.0 %	24,525,000
<u>Israel</u>	8,789,774	1,270,000	7,002,759	79.7 %	3.7 %	6,090,000
<u>Jordan</u>	10,269,021	127,300	8,700,000	84.7 %	4.6 %	6,258,000
<u>Kuwait</u>	4,328,550	150,000	4,256,466	98.3 %	2.3 %	4,164,000
<u>Lebanon</u>	6,769,146	300,000	5,546,494	81.9 %	2.9 %	4,033,000
<u>Oman</u>	5,223,375	90,000	4,011,004	76.8 %	2.1 %	2,970,000
<u>Palestine (State of)</u>	5,222,748	35,000	3,381,787	64.8 %	1.8 %	3,033,000
<u>Qatar</u>	2,930,528	30,000	3,056,000	104.3 %	1.6 %	3,056,000
<u>Saudi Arabia</u>	35,340,683	200,000	31,856,652	90.1 %	16.9 %	26,350,000
<u>Syria</u>	18,275,702	30,000	8,500,000	46.5 %	4.5 %	8,500,000
<u>United Arab Emirates</u>	9,991,089	735,000	10,082,000	100.9 %	5.4 %	8,737,000
<u>Yemen</u>	30,490,640	15,000	7,903,772	25.9 %	4.2 %	3,235,000
<u>TOTAL Middle East</u>	265,587,661	3,284,800	188,132,198	70.8 %	100.0 %	143,741,600

Telecommunications Research List of Countries



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- Middle East - Fixed Broadband Market
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Research

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- **Telecoms Maturity Index**
- Data Centre

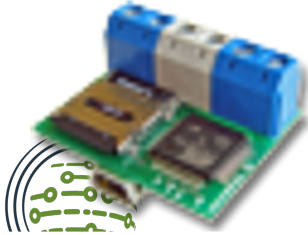


Do you use any of below Devices ?



KeyGrabber

Hardware keylogger - Ke



keylogger HW

- his **wireless keylogger** is packed with state-of-the-art electronics :
- **two powerful processors**, a full **TCP/IP** stack, a **WLAN** transceiver, and **4 Gigabytes** of memory .
- **How does it work ?**

Besides standard [PS/2](#) and [USB keylogger](#) functionality, it features remote access over the Internet.

This wireless keylogger will connect to a local **Wi-Fi Access Point**, and send **E-mails containing recorded keystroke data**.

You can also connect to the keylogger at any time over **TCP/IP** and view the captured log. All this in a device less than 2 inches (5 cm) long!



Android KeyLog

- Can we use below app for mobile or family log?

<https://play.google.com/store/search?q=keylogger&c=apps&hl=en&gl=US>



Are your Mobile Secure?



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***#21#**

هل يتم تحويل مكالماتك او sms؟
With this code, you can find out
whether your calls, messages,
and other data are being
diverted .



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Call forwarding
unconditionally
Voice: Not forwarded
Data: Not forwarded
FAX: Not forwarded
SMS: Not forwarded
Sync: Not forwarded
Async: Not forwarded
Packet: Not forwarded
PAD: Not forwarded

OK

*

0
+

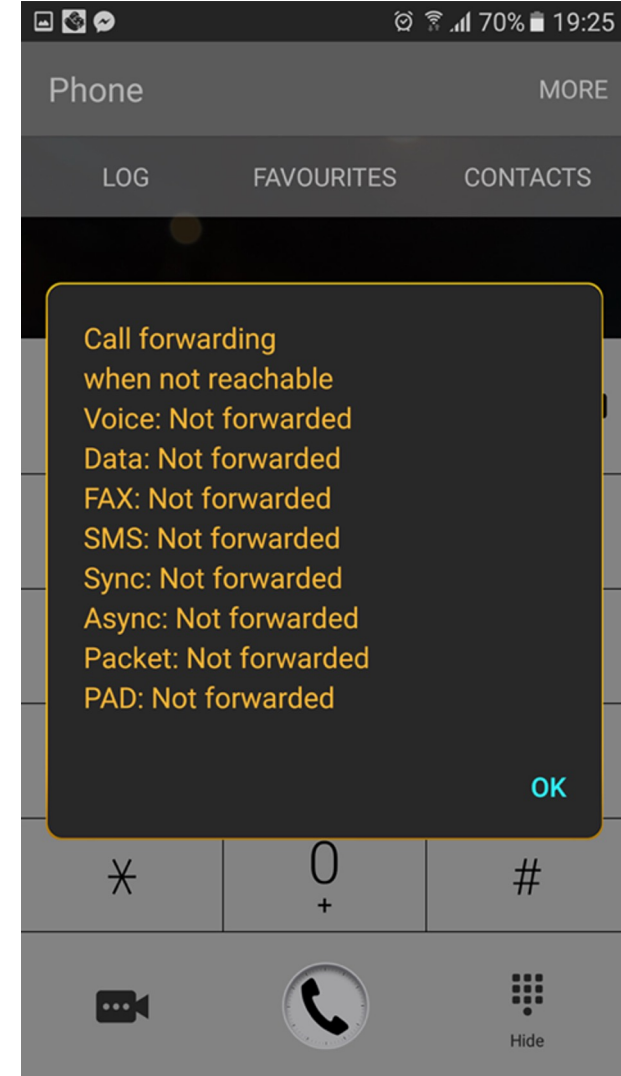
#



***#62#**

هل يتم تحويل مكالماتك في حال عدم الوصول الى مشغل اخر؟

Dial this code if you want to find out where calls, messages, and data are being redirected to if it seems that no one can get through to you. The chances are in this case that your voice calls are being redirected to one of your cell phone operator's numbers.

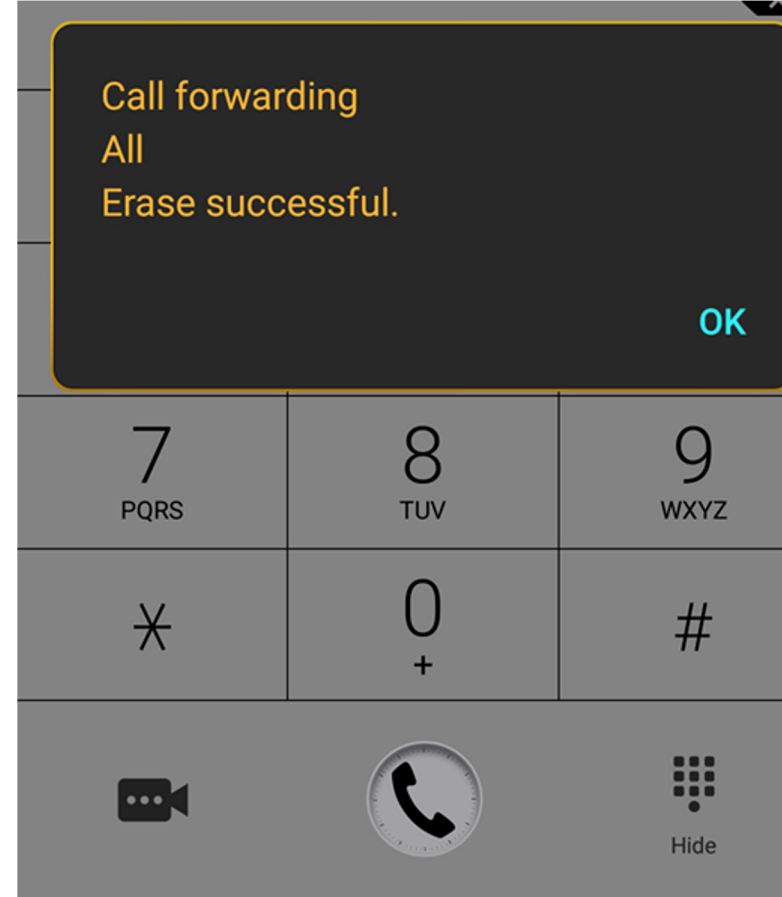


##002#

ايقاف وحذف خدمة تحويل المكالمات.

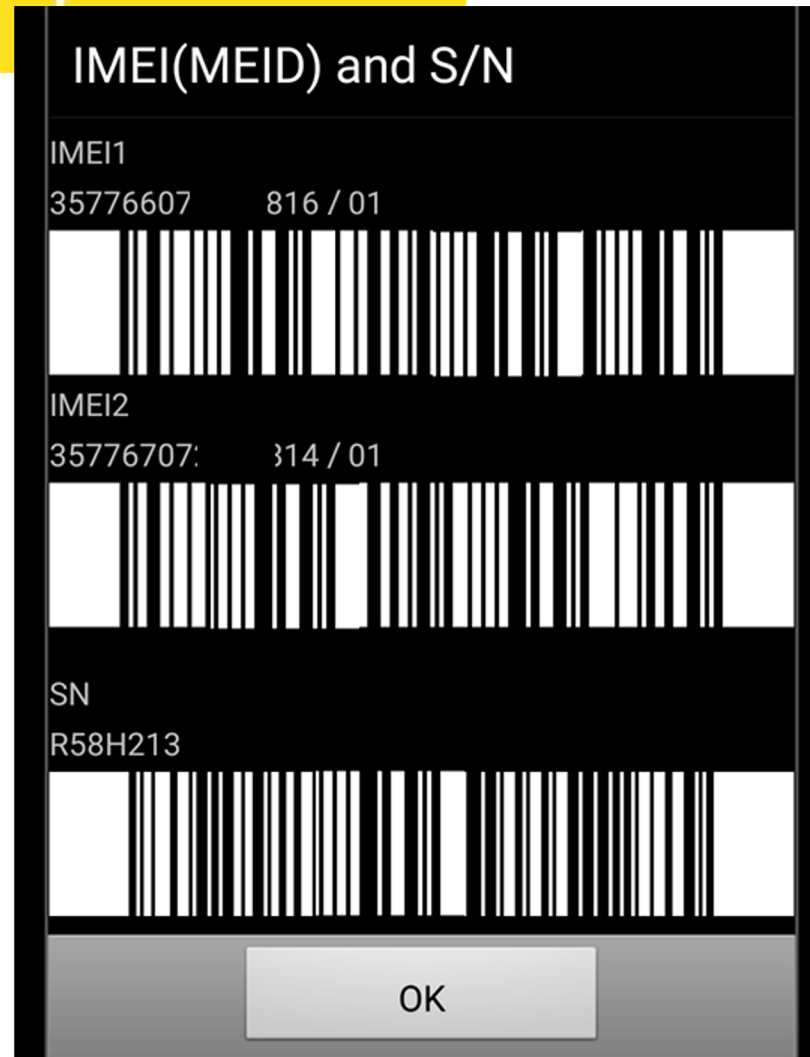
This is a universal code for switching off all forms of redirection away from your phone. It's a good idea to use this before you have to use roaming. In this case, money won't be taken from your account for calls that are redirected by default to your

voice mail.



***#06#**

IMEI (International Mobile Equipment Identifier). its location is automatically conveyed to the network operator even if a different SIM card is inserted. If someone knows your IMEI number ,they can find out the model and technical characteristics of your phone.



Activity 1.1 – Locate Cell Towers locat

To localize the sector of the base station (CellId) you need to know next 4 parameters:

- MCC — a Mobile Country Code. This code identifies the country. For example, in China MCC is equal to 460, in USA - 310, Hungary - 216, Belorussia - 257.
- MNC - a Mobile Network Code. This code identifies the mobile operator. The detailed table with MCC and MNC codes is available [here](#).
- LAC - Location Area Code is a unique number of current location area. A location area is a set of base stations that are grouped together to optimize signalling.
- CellID (CID) — is a generally unique number used to identify each Base transceiver station (BTS) or sector of a BTS within a Location area code.



or iPhone *#12345#3001* :

for Android *##4636##* :or*##197328640##*

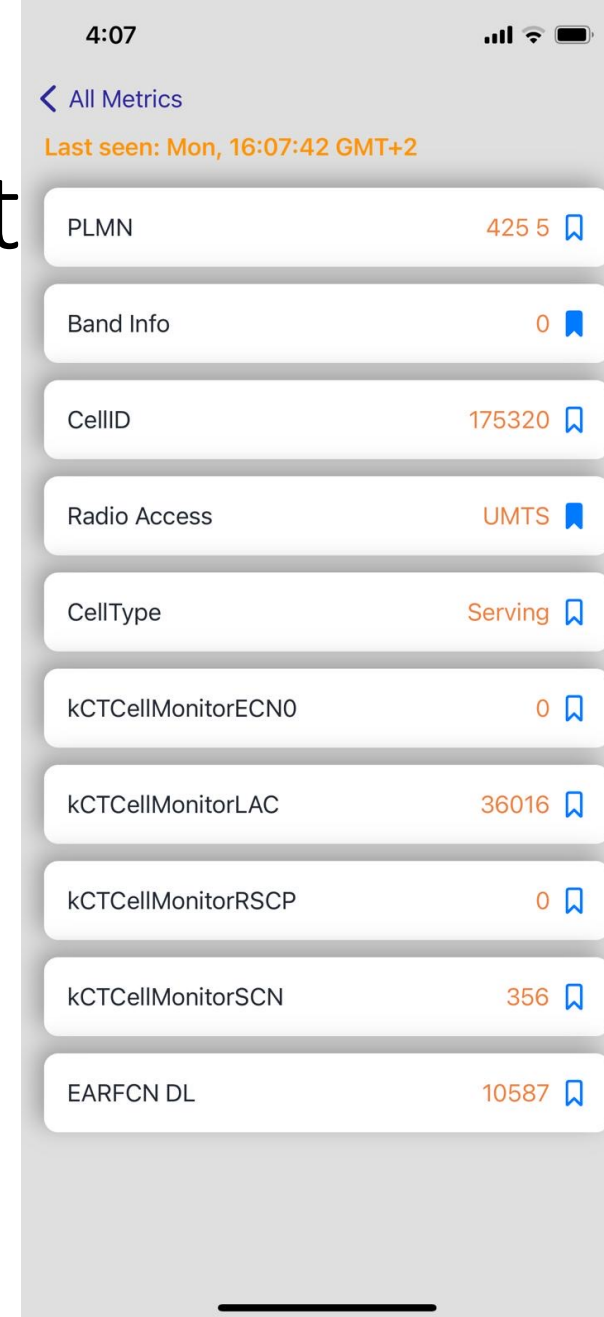
Example:

MCC: 425

MNC: 6

LAC: 2000

CID: 10542



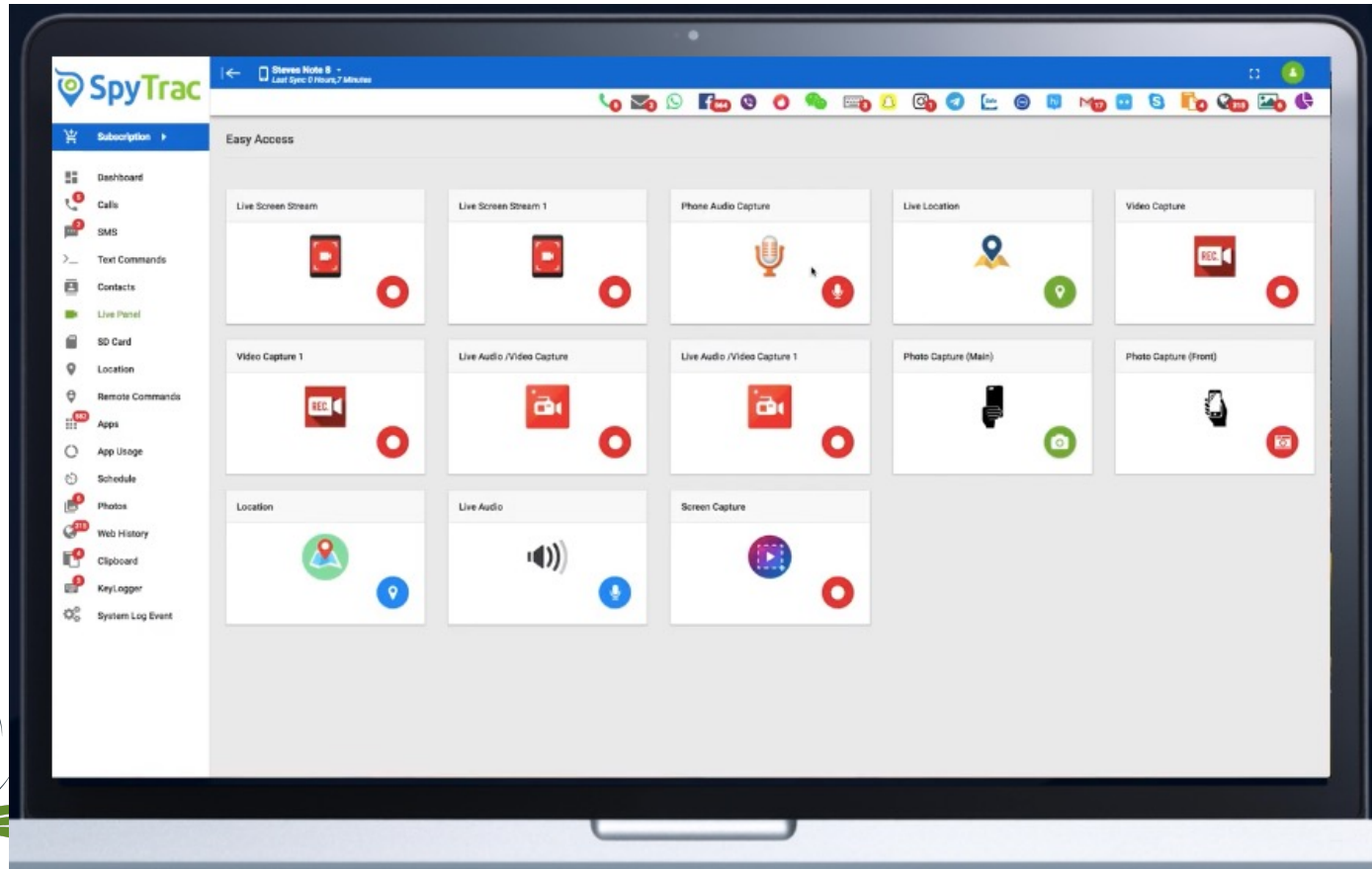
number of logical cells per radio standard and the total number of cells

Country Name	Total Cells	GSM	CDMA	UMTS	LTE
United States of America	6,525,086	279,748	601,785	1,607,682	4,035,756
Germany	2,725,204	1,251,434	0	1,145,094	328,389
India	2,388,171	1,322,546	15	699,822	365,777
Russian Federation	1,982,989	556,384	8	1,125,721	300,868
France	1,917,354	474,034	0	1,051,838	391,436
Brazil	1,835,225	327,599	0	1,257,686	249,939
United Kingdom	1,592,321	318,324	0	966,010	307,977
Poland	1,426,836	458,452	0	737,522	230,846
Indonesia	1,371,391	321,992	971	873,956	174,469
Japan	1,370,722	556	514	261,501	1,108,149
Italy	1,289,598	244,728	0	807,453	237,416
Thailand	1,270,152	113,727	0	861,178	295,247
Spain	966,859	206,013	0	597,470	163,338
Canada	944,974	144,944	8,613	425,165	366,235
China	868,121	371,533	16	182,456	314,115
South Korea	858,853	117	41	97,744	760,951
Mexico	712,834	91,777	819	477,389	142,847
Turkey	612,699	77,264	0	468,265	66,820



Activity 1.2:

Which tools hacker use to spy user Mobile?



Activity 1.3:

How we can control family Mobile devise considering Security and Privacy?

- Google Family Link
- Parental Control App & Location Tracker - FamiSafe
- mspy.com/easter-21.html



Hacking web camera using google

- Codes:

intitle:"Live View / - AXIS"

inurl:"viewerframe?mode=refresh"

intitle:"i -Catcher Console - Web Monitor"

intitle:"Toshiba Network Camera" user login

intitle:"Live View / - AXIS 210?"



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Shodan.io

Shodan Developers Book View All...

SHODAN netcam country:"il" [Q](#) [Explore](#) [Downloads](#) [Reports](#) [Enterprise Access](#)

[Exploits](#) [Maps](#) [Share Search](#) [Download Results](#) [Create Report](#)

TOP COUNTRIES



Israel 10

TOP CITIES

Barak 3

Ashdod 1

TOP SERVICES

HTTP 4

HTTP (83) 3

HTTP (81) 2

HTTP (8080) 1

TOP ORGANIZATIONS

013 Netvision 4

HOTnet 3

Bezeq International 2

Actoom - Active Communicatio... 1

Total results: 10

46.117.238.148

46-117-238-148.bb.netvision.net.il

013 Netvision

Added on 2017-01-17 14:20:58 GMT

[Israel](#), [Barak](#)

[Details](#)

HTTP/1.1 401 Unauthorized

Content-Type: text/html

Connection: keep-alive

WWW-Authenticate: Basic

realm="netcam"

Content-Length: 17

5.29.245.160

HOTnet

Added on 2017-01-15 20:06:15 GMT

[Israel](#), [Ashdod](#)

[Details](#)

HTTP/1.1 401 Unauthorized

Content-Type: text/html

Connection: keep-alive

Pragma: no-cache

WWW-Authenticate: Basic

realm="netcam"

Content-Length: 17

46.117.238.148

46-117-238-148.bb.netvision.net.il

013 Netvision

Added on 2017-01-14 20:25:00 GMT

[Israel](#), [Barak](#)

[Details](#)

HTTP/1.1 401 Unauthorized

Content-Type: text/html

Connection: keep-alive

WWW-Authenticate: Basic

TOP COUNTRIES



Israel

697,665

TOP CITIES

Tel Aviv	58,952
Haifa	13,152
Jerusalem	11,198
Ramat Gan	8,160
Holon	5,794

TOP SERVICES

HTTP	114,850
HTTPS	65,689
Telnet	36,964
SIP	34,922
4567	32,123

Total results: 697,670

index

82.81.13.0

bzq-82-81-13-0.red.bezeqint.net

Bezeq International

Added on 2017-01-23 17:48:22 GMT

Israel, Even Yehuda

[Details](#)

HTTP/1.0 200 OK

Date: Mon Jan 23 20:38:46 2017

Server: DVRDVS-Webs

Last-modified: Fri Dec 21 08:25:34 2012

Content-length: 1577

Content-type: text/html

81.218.92.106

Bezeq International

Added on 2017-01-23 17:48:21 GMT

Israel

[Details](#)

vpn

VPN (IKE)

Initiator SPI: e5f858a0876af576

Responder SPI: 7f93573a8cba476a

Next Payload: Security Association (SA)

Version: 1.0

Exchange Type: Identity Protection

Flags:

Encryption: False

Commit: False


Authentication: False

Message ID: 00000000

Length: 132





 82.81.13.9 bzq-82-81-13-9.red.bezeqint.net

City	Even Yehuda
Country	Israel
Organization	Bezeq International
ISP	Bezeq International
Last Update	2017-01-23T17:46:22.236252
Hostnames	bzq-82-81-13-9.red.bezeqint.net
ASN	AS8551

Ports

80

554

Services

80

tcp

http

HTTP/1.0 200 OK

Date: Mon Jan 23 20:38:46 2017

Server: DVRDVS-Webs

Last-modified: Fri Dec 21 08:25:34 2012

Content-length: 1577

Content-type: text/html



Username : admin | password : admin

Username : admin | password : (blank password)

Username : admin | password : 12345

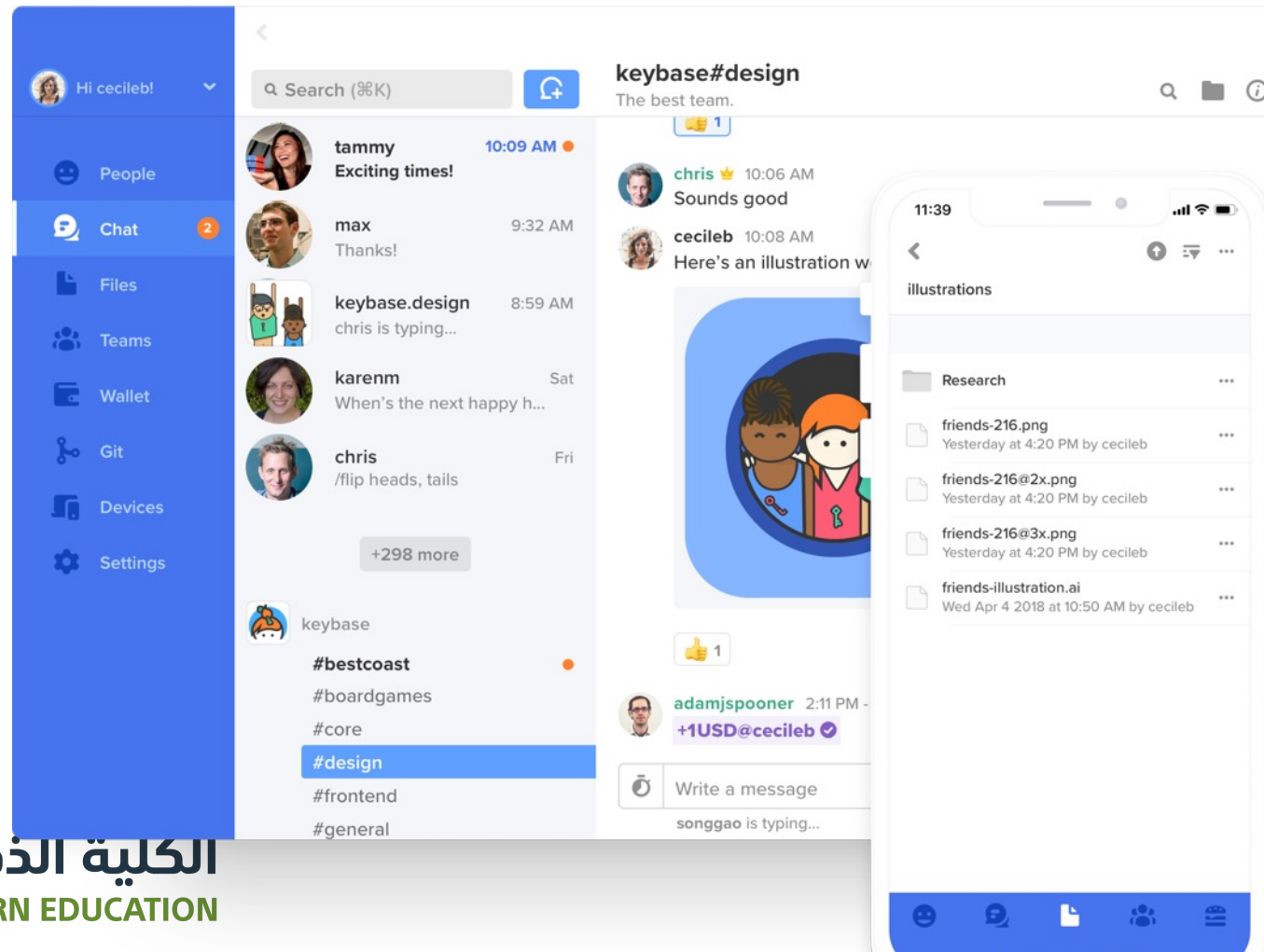
Username : admin | password : 9999



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<http://fncuwbiisyh6ak3i.onion/>
Secure groups, files, and chat for everyone!



<https://www.facebookcorewwi.onion/>



Bitcoin Block Explorer - Blockchain.info - Tor Browser

Blockchain Luxembourg S.A.R.L (LU) https://blockchainbdgpkz.onion

B BLOCKCHAIN info Home Charts Stats Markets API Wallet English

Home

Welcome to Blockchain [More...](#)

Height	Age	Transactions	Total Sent	Relayed By	Size (kB)
423755	11 minutes	272	1,216.17 BTC	Kano CKPool	978.73
423754	11 minutes	2388	16,271.12 BTC	BTCC Pool	998.17
423753	28 minutes	181	976.51 BTC	HaoBTC	994.04
423752	29 minutes	1205	10,225.32 BTC	BTCC Pool	906
423751	37 minutes	506	4,417.55 BTC	BeFury	995.92
423750	40 minutes	858	5,710.37 BTC	AntPool	943.53

Latest Transactions

634199631f5b93fc31569425...	< 1 minute	11,816,535,97 BTC
e87356c9da6743c35d72cee66...	< 1 minute	0.15341311 BTC
142f901da48c63f74b76d83e...	< 1 minute	0.02535787 BTC
8c6b2fc3f231dc747b18842...	< 1 minute	0.8354657 BTC

Search

You may enter a block height, address, block hash, transaction hash, hash160, or ipv4 address.

<https://blockchainbdgpkz.onion/>

<http://owmx2uvjkmkgap2.onion/>

The Network for Police Monitoring - Tor Browser

The Network for Police ... x +

owmx2uvjkmkgap2.onion/

Congratulations!

NET POL The Network for Police Monitoring

Welcome to Netpoleaks

Network for Police Monitoring (Netpol)
Blow the whistle on excessive and discriminatory public order, protest and community policing and surveillance

Are you a whistleblower?

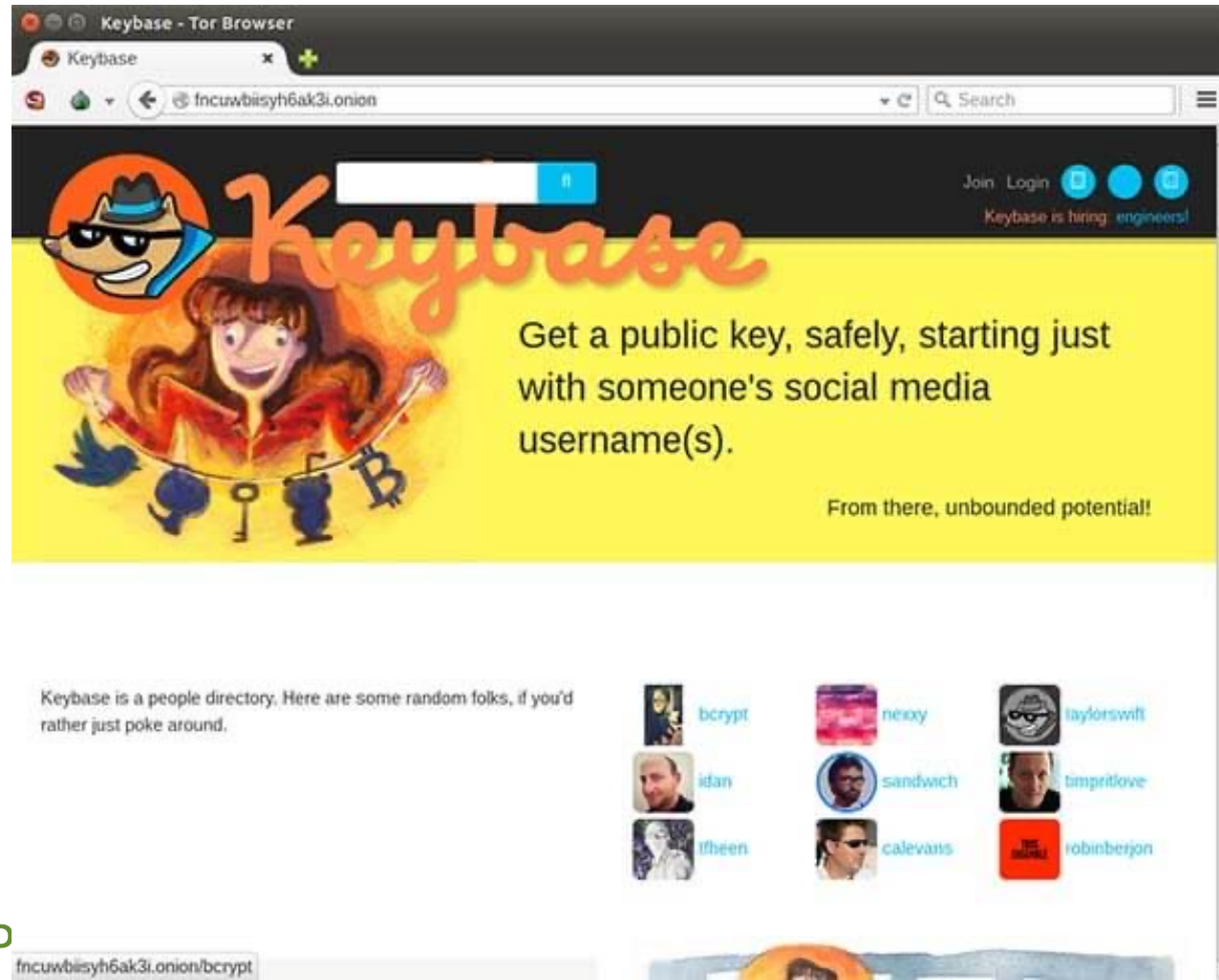
PROCEED

Have you already filed a submission? Enter your key code.

XXXX XXXX XXXX XXX **Log in**

This platform makes use of GlobaLeaks software specifically designed to protect the identity for submitter and recipient in the exchange of content.
The software is developed by the non-profit Hermes Center for Transparency and Digital Human Rights. Please support Hermes through their

<http://fncuwbiisyh6ak3i.onion>



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Hiren's BootCD

<https://www.hirensbootcd.org/download/>

Hiren's BootCD PE x64 (v1.0.1) – ISO Content (changelog)

BCD-MBR Tools

- Bootlce v1.3.3
- EasyBCD v2.3

Hard Disk Tools – Data Recovery

- CheckDisk GUI v1.2.0
- Lazesoft Data Recovery v4.0.0.1
- Puran Data Recovery v1.2.0
- Puran File Recovery v1.2.0
- Recuva v1.53.0.1087
- Runtime GetDataBack for FAT v4.3.3
- Runtime GetDataBack for NTFS v4.3.3
- Runtime GetDataBack Simple v5.0.0
- Runtime NAS Data Recovery v4.0.0
- Runtime RAID Reconstructor v4.4.0
- Runtime RAID Recovery for Windows v4.0.0

Hard Disk Tools – Defrag

- Defraggler v2.22.33.995

Hard Disk Tools – Diagnostic

- GSmartControl v1.1.3

Other Tools

- FSViewer v6.5.0
- Free Office rev 703
- Sumatra PDF v3.1.2
- 7-Zip v18.05
- ExamDiff Pro v10.0.0.6
- HxD v2.0.0
- Notepad++ v7.5.6
- WinMerge v2.14

Removable Drive Tools

- CDBurnerXP v4.5.8.6795
- Rufus v3.0.1304

Security – AntiVirus

- ESET Online Scanner v2.0.22
- Malwarebytes Anti-Malware v2.2.1.1043

Security – KeyFinders

- ProduKey v1.92
- ShowKeyPlus v1.0.6610

Security – Passwords



ذكية للتعليم الحديث

SMART COLLEGE FOR MODERN EDUCATION

Activity 1.3 (team work - 2 min each)

Remote control for Mobil and devises?

During day to days activity, which tool you prefer to use for remote control on mobile devices and why?

- <https://web.airdroid.com/>
- <https://anydesk.com/en>
- <https://www.teamviewer.com/en>

