

Issued by the National Policing DCG Futures Group Version 2016\_07 27 July 2016

## Stay Secure Online 2016

A review of the privacy options currently available to users





This document only describes the privacy options available to users.

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### Foreword



By ACC Richard Berry, Assistant Chief Constable, Gloucestershire Constabulary

We live in the age of the digital, with information readily accessible to all who seek to find it, including those who we wish to keep it safe from. With every tweet, like or share, our digital footprint grows. It is our responsibility, as individuals, to keep our data safe.

This book provides tips and guidance on protecting your online data across a range of social media platforms, browsers and devices. This guide has been written with sharing in mind so please feel free to share it with family and friends, as in some cases it is they who may be putting information about you online when you would rather they did not.

Richard Berry, January 2016

Richard Berry is the National Policing lead for Communications Data and Chair of the Data Communications Group. He is a core member of the NPCC Capability Management Group for digital investigations and has specific responsibility for the People strand. Richard has been engaged in developing a range of leading edge digital capabilities and cyber-crime projects both locally and nationally.



**Important note**: This book contains a summary of the common body of knowledge with respect to online security for social media, browsers and smartphones as at end December 2015. It is not an operational guide and merely sets out the security options available. Online sites and services change all the time and readers should consult other sources, or new releases of this document, for updated information. See the disclaimer on the final page for further information.

# Hacker Girl Episode One The Case of the Naïve Banker

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ACKER GIRL IS IN DEBT TO A CRIME GANG. UNFORTUNATELY, THEY HAVE LEARNED OF HER HACKING SKILLS AND NOW SHE HAS TO WORK OFF WHAT SHE OWES...



THE DOESN'T WANT TO DO IT, BUT SHE HAS NO WAY OUT. SHE'S CONVINCED THE GANG WILL KILL HER IF SHE DOESN'T HELP THEM. TIME TO GET TO IT, SHE DECIDES. SHE WILL START BY SEARCHING LINKEDIN AND THEN SHE'LL TRY SOME OLD FASHIONED SURVEILLANCE.





BACK AT HOME, HACKER GIRL UPLOADS THE STOLEN EMAILS AND ATTACHMENTS TO THE CRIME GANG...

OH

WOW...

öÖ

THAT'S HIM!

GOOD FIRST

JOB, BUTWE

NEED HIS LAPTOP?

HE GANG WANTS

MORE FROM HER...

EANWHILE, EOB CLIENTS HAVE BEEN DEFRAUDED AND BANK STAFF ARE BEING FIRED...

B HACKED

NUNDREADS OF

JOBS ON THE L

N000...

ACKER GIRL HAS A CHANCE ENCOUNTER WITH HER EOB TARGET IN THE PARK. HE LOOKS VERY DEJECTED.

I HOPE THIS IS THE END OF

IT...

,0

TRANSFER

68%

I FEEL AWFUL.

W HAT WILL HACKER GIRL DO NEXT? CAN SHE MAKE AMENDS, OR WILL SHE CONTINUE TO WORK FOR THE CRIME GANG? CATCH UP WITH HER LATER IN THIS BOOK...

### Secure Social Media

IN THE HACKER GIRL STORY, WE SAW HOW SHE USED LINKEDIN AS A TOOL TO IDENTIFY A LIKELY TARGET.

POOR SOCIAL MEDIA HABITS CAN BE A MAJOR RISK TO <u>BOTH</u> INVESTIGATORS AND VICTIMS OF CRIME.



Social media tools such as Facebook, LinkedIn and Twitter have become increasingly popular over the past decade.

In parallel, the use of social media by police officers and policing organisations, both as a means of communication and as an investigative resource, has also increased dramatically.

However, poor social media practices can lead to security breaches that might be exploited by criminals. This risk can be offset in large part by the wise utilisation of the security options provided by social media sites for their users. Unfortunately, many users are unaware of the scope of these controls and where to find them.

This section of the guide provides some high level advice about secure social media practices, as well as details on how you can adjust your security settings to better protect yourself and your colleagues online.

### Social Media Risks

Fake or malicious social media accounts have become a major risk facing social media users and organisations. In 2013 Facebook reported that between 5.5% and 11.2% of its user accounts were fakes or duplicates.

This seems to indicate that more than **100 million** fake Facebook accounts are being used daily worldwide, based on other statistics from the company. Sites such as LinkedIn are also experiencing problems of this nature.

Malicious fake accounts in various social media platforms can be used to commit a range of offences or deceptions, as shown below.



Be wary about accepting social media invitations from people you don't know. Search online to see if the image that person is using actually belongs to someone else; this happens frequently. And never post sensitive work or personal data online.

#### 10 key social media "Do's and Don'ts"



### Do

- Use social media security settings.
- 2. Turn off location services.
- 3. Secure your profile data.
- 4. Limit your search 'footprint'.
- 5. Use private browsing.
- 6. Create a strong password.
- 7. Change your passwords regularly.
- 8. Use secure encrypted connections.
- 9. Use only approved devices and networks.
- Search using a range of search engines, social feeds and languages.

### Don't

- 1. Post personal details.
- 2. Use easily identified photos.
- 3. Allow Apps to access your contacts or your location.
- 4. Install non-approved Apps.
- 5. Save payment information.
- 6. Share your passwords.
- Leave devices logged on and unattended.
- Use public WiFi for sensitive tasks.
- 9. Auto 'check-in' to hotspots or social feeds.
- Visit the profiles of persons of interest using insecure or personal accounts.

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#### Understanding your online footprint

**Online activity is** recorded by visited sites, or by spyware on infected devices. Examination of email headers & 3 other records can reveal IP your address. Insecure network connections, such as some public WiFi services, can expose you to interception.

Geo-location data, check in and travel updates on social media and other sites may be published online.

'Whois' information on registered domains listed in social media profiles can be freely obtained and often includes home addresses for small business or personal websites.

...and this is only the tip of the iceberg!

#### How a criminal might investigate you...



## Secure Facebook

Note: all screenshots taken from the Facebook.com site. Mobile apps will have differing features.

	ount settings	
	1	First click here
f Search Facebook	Q	Home <u>4</u> 💭 🖓 🗚
o <sup>o</sup> General	General Account Settings	Your Pages:
Privacy	Name John Smith	Create Page Manage Pages
Blocking	Username http://www.facebook.com	Create Group
) Language	Email Primary:	New Groups 3
🚷 Notifications	Password Password last changed over a year ago.	Create Ads Manage Ads
Followers	Networks No networks.	Activity Log 13
Apps	Temperature Fahrenheit	News Feed Preferences
🙀 Ads 🥅 Payments	Download a copy of your Facebook data.	Settings Log Out
📀 Support Inbox	Did you find what you needed? Yes $\cdot$ No $\cdot$ I didn't need anything specific	
		Help Report a Problem
3	2then click here	
	e that other users will see. ress – not your work email! rd frequently.	Search Facebook
<b>.</b> .	e account is a breach of Facebook's T&Cs	of General ∰ Security
4		<ul> <li>Privacy</li> <li>Timeline and Tagging</li> <li>Blocking</li> </ul>
Set 'Language' to 'Us	S English' to exploit all FB search tools	Language

#### Security: access & edit

Click here to access Security



Then click to edit each setting

General

Security S	Settings
------------	----------

JI Security			
Privacy	Login Alerts	Get an alert when anyone logs into your account from a new device or browser.	Edit
Timeline and Tagging	Login Approvals	Use your phone as an extra layer of security to keep other people from logging into your account.	Edit
Blocking Language	Code Generator	Use your Facebook app to get security codes when you need them.	Edit
Notifications	App Passwords	Use special passwords to log into your apps instead of using your Facebook password or Login Approvals codes.	Edit
Followers	Trusted Contacts	Pick friends you can call to help you get back into your account if you get locked out.	Edit
Apps	Your Browsers and Apps	Review which browsers you saved as ones you often use.	Edit
Ads Payments	Where You're Logged In	Review and manage where you're currently logged into Facebook.	Edit
Support Inbox	Legacy Contact	Choose a family member or close friend to care for your account if something happens to you.	Edit
	Deactivate Your Account	Choose whether you want to keep your account active or deactivate it.	Edit

2



So, I've decided to give you a few discrete pointers.

Make sure you check your settings if you don't want me to track you!

The settings you choose are all optional and may be subject to specific operational guidance or best practice standards within your organisation. <u>Check before</u> <u>making changes</u>.

#### **Security: Login alerts**

browser.
Notifications
Get notifications     Don't get notifications
<ul> <li>Email</li> <li>Email login alerts to (your email address will appear here)</li> <li>Don't get email alerts</li> </ul>
Text messages
<ul> <li>Text login alerts to (your mobile number will appear here, if assigned)</li> <li>Don't get text alerts</li> </ul>

#### Security: Login approvals

 Login Approvals
 Require a security code to access my account from unknown browsers [?]

 Save Changes
 Cancel

 You have the option to use mobile number linked to your profile to approve logins from browsers or devices that have not been used before. This is a second layer of security.

 Note that some browser settings (e.g. Cookie settings or private browser mode) may prevent you from activating this feature.

#### Security: where you're logged in



These are normally just sessions I didn't fully log out of, but if I do see a suspicious session, I investigate it (if possible) end it, and then change my password right away.



#### Security: Your browsers & apps

Your Browsers and Apps	You won't get notified or have to confirm your identity when logging in from these devices:				
	Facebook for iPhone	April 12, 2015 · Remove			
	Facebook for iPhone	November 29, 2014 · Remove			
	Firefox on Windows	March 20, 2014 · Remove			
	Save Changes Cancel				

This is a list of the browsers & apps Facebook trusts for your account. Remove any that you DO want to receive Login Alerts for. No alerts will be raised for browsers or apps remaining on this list.

#### Security: deactivate your account



Never leave an unwanted and unused account lying dormant. If it is hacked and misused, you might not notice the fact. Such misuse could continue for years in some cases. **To permanently delete an account visit** <u>https://www.facebook.com/help/delete\_account</u>



#### **Timeline & Tagging**

Make sure that only you can add posts. Approve posts friends tag you in.

Who can add things to my timeline?	Who can post on your timeline? Of		Edit	
	Review posts friends tag you in before they appear on your timeline?	On	Edit	
Who can see things on my timeline?	Review what other people see on your timeline		View As	you
	Who can see posts you've been tagged in on your timeline?	Only Me	Edit	your timeline.
	Who can see what others post on your timeline?	Only Me	Edit	n see
How can I manage tags people add and tagging suggestions?	Review tags people add to your own posts before the tags appear on Facebook?	On	Edit	լ
	When you're tagged in a post, who do you want to add to the audience if they aren't already in it?	Only Me	Edit	J

Timeline	About	Friends 456	Photos	More <b>•</b>

Social Media settings and options change all the time. Please check with the issuer (<u>DCGFutures@met.police.uk</u>) for the latest version of this guide.

## Secure LinkedIn



Note: all screenshots taken from the LinkedIn.com site. Mobile apps will have differing features.

Priva	acy & se	ettings						
				1	Fi	rst hover your moi	use <b>here</b>	
in.		<ul> <li>Search for people, j</li> </ul>	jobs, compa	anies, and more	Q	Advanced 🧧	1 15 .2	
	rofile Connections	Jobs Interes	ts		Ac	count & Settings >		
	John Smith				1	John Smith	Sign Out	
	Profile Connections Jobs Interests Account & Settings >							
	Improve your profile		3.3k c	onnections. Grow your network	•	Job Posting	Manage	
66 S	🕰 Share an update 🛛 🔀 Upload a photo		Publish a post		Language	Change		
						Privacy & Settings	Manage	
		egulatory and Corporate	Crime		0	Help Center	Get Help	
	Like • Comment • Sha	Fake lawyer 'tricking judge bbc.co.uk • Ar thinking he was	Mohamm es' - BBC	News ked high-ranking judges into				
						2then cli	ck here	

ecuri	ty: A	ccess & edit		
. Set a	a strong po	assword & change it regularly		
Edit	your emai	il address - no work email		
Avoi	id using a <sub>l</sub>	ohone number		
	@ Account	🖗 Privacy	🖸 Comm	unications
Basics		Basics		
Third parties Subscriptions		Email addresses Add or remove email addresses on your account		Change 2 email addresses
		Phone numbers Add a phone number in case you have trouble signing in		Change 0 phone numbers
		Change password Choose a unique password to protect your account		Change Last changed: September 30, 2015
		Language Select the language you use on LinkedIn		Change English
		Name, location, and industry Choose how your name and other profile fields appear to other members		Change

### **Security: Active sessions**

•	Account     Account	Other active sessions (3)	🖉 Privacy	☑ Communications
1		Last accessed	Details	
		5 days ago	United Kingdom (Approximate location)	Sign out Details
Review all sessions			LinkedIn on iOS	
that LinkedIn		2 months ago	Salford, Salford, United Kingdom (Approximate location)	Sign out Details
regards as current.			Chrome on Windows	
		2 months ago	Salford, Salford, United Kingdom (Approximate location)	Sign out Details
<b>1</b>			Chrome on Windows	Enter your password to end this session
<u> </u>				Password
				•••••
Click to end any active sessions				End session Forgot password

Secure LinkedIn

#### **Security: Profile photo & visibility**

		Autoplay videos Choose if you want videos in j	Ø Privacy your feed to autoplay	☑ Communications	
Basics Third parties Subscriptions		Select whose photos y	ide profile photos of other members		Close Connections
		Your connections 🗸	·		
Postrict w	ha can caa	your photo by color	cting 'Your connections'		

#### Security: Archive of your data

#### Getting an archive of your data

Download an archive of your account data, posts, connections, and more

#### Request your data archive

#### Download your LinkedIn data

Did you know you can request an archive of your activity and data on LinkedIn anytime?

Within minutes, you'll get the archived information that's fastest to compile including things like your messages, connections and imported contacts. We'll send you an email with a link where you can download it right away.

You'll get an email with a link where you can download the second part of your data archive in about 24 hours. You'll also be able to access your archive by going to your settings, selecting the Account tab, and clicking Request an archive of your data. Want more details? Just visit our Help Center.

#### Here's what's included

Your data archive will contain the information LinkedIn has stored for you including your activity and account history, from who invited you to join, to the time of your latest login. For the full list, visit our Help Center.



Change

#### **Security: Profile viewing options**



#### Security: Sharing profile edits

		Profile privacy Blocking and hiding Data privacy and advertising		Profile privacy	
				Edit your public profile Choose how your profile appears in search engines	Chang
		Security		Who can see your connections Choose who can see your list of connections	Chang Only yo
1	To prevent	prevent your		How You Rank Choose whether or not to be included in this feature	Chang
	connection viewing yo			Viewers of this profile also viewed Choose whether or not this feature appears when people view yo	Chang ur profile N
	list of cont select 'On	tacts,		Sharing profile edits Choose whether your network is notified about profile changes	Chang N
	Select On	iy you _			

### Security: Hiding your public profile

		@ Account		🖉 Privacy		☑ Communications
	Profile privacy Blocking and hiding Data privacy and advertising Security		Profile privacy			
			Edit your public profile Choose how your profile app		s	Change
			Who can see your conr Choose who can see your list			Change Only you
			How You Rank Choose whether or not to be	included in this featu	re	Change No
			Viewers of this profile Choose whether or not this f		people view your profile	Change No
			Sharing profile edits Choose whether your netwo	rk is notified about pr	ofile changes	Change No
1			Profile viewing option	5	mode	Change Private mode
		John Smith			500+	Your public profile URL
Return to <b>Prive</b> and choose the	-	London, Grea Recommendat	ter London, United Kingdom   Writing ions	) and Editing		Enhance your personal brand by creating a custom URL for your LinkedIn public profile.
<b>Profile Privacy</b> Then click <b>Prof</b>						www.linkedin.com/in/ John Smith
viewing option						Customize Your Public Profile
						Control how you appear when people search for you on Google, Yahoo!, Bing, etc. Learn more >
						Make my public profile visible to no one
2						<ul> <li>Make my public profile visible to everyone</li> <li>Basics</li> </ul>
						Picture     Headline
Hide the acce	ess to					✓ Websites
						<ul> <li>Summary</li> <li>Current Positions</li> </ul>
your profile	-					Details
selecting 'Mak	-					Past Positions
public profi						<ul> <li>Details</li> <li>Volunteer Experiences &amp; Causes</li> </ul>
visible to no o	one'					Courses
						Certifications
						<ul> <li>✓ Skills</li> <li>✓ Languages</li> </ul>
						<ul> <li>Languages</li> <li>Recommendations</li> </ul>
						Groups
						Save

### Security: View your applications

	-	Autoplay videos	
	@ Account	Choose if you want videos in your feed to autoplay	Communications
Basics Third parties Subscriptions		Third parties	
		Third party apps	Change
		View apps you've authorized and manage data sharing	3 connected apps
		Twitter settings Manage your Twitter info and activity on your LinkedIn account	Change Not connected
		WeChat settings Link, remove, and control visibility of your WeChat account	Change Not connected
the app You will	os you havo I see a list	d Party' section, you can view e authorised. of the <b>external</b> apps that currently have These apps can see your feed, your conn	
ird parti	es		
ird parti rd party app			cl
rd party app	S	d manage data sharing	
rd party apps apps you've au These are ext	<b>S</b> thorized and ernal partne	r applications to which you have granted access t	3 connected a
rd party apps apps you've au These are ext your LinkedIn will no longer	S ithorized and ernal partne profile and r be able to a	er applications to which you have granted access t network data. If you remove that access here, the access your LinkedIn data. To re-enable them in th	3 connected a
d party apps apps you've au These are ext your LinkedIn will no longer future, go to t	S ethorized and ernal partne profile and be able to a the applicati	er applications to which you have granted access t network data. If you remove that access here, the access your LinkedIn data. To re-enable them in th on and grant access again.	3 connected a 20 29
rd party apps apps you've au These are ext your LinkedIn will no longer future, go to t Third Party ap	S ernal partne o profile and be able to a the applicati ops you've a	er applications to which you have granted access t network data. If you remove that access here, the access your LinkedIn data. To re-enable them in th on and grant access again. dded	3 connected a 20 29 1e
rd party apps apps you've au These are ext your LinkedIn will no longer future, go to t Third Party ap LinkedIn Help	S ernal partne profile and be able to a the applicati pps you've a p Center - Cu	er applications to which you have granted access t network data. If you remove that access here, the access your LinkedIn data. To re-enable them in th on and grant access again.	3 connected a 20 29 1e
rd party apps apps you've au These are ext your LinkedIn will no longer future, go to t Third Party ap	S ernal partne profile and be able to a the applicati pps you've a p Center - Cu	er applications to which you have granted access t network data. If you remove that access here, the access your LinkedIn data. To re-enable them in th on and grant access again. dded	3 connected a co cy ne Remov
rd party apps apps you've au These are ext your LinkedIn will no longer future, go to t Third Party ap LinkedIn Help	S ernal partne profile and be able to a the applicati pps you've a p Center - Cu	er applications to which you have granted access t network data. If you remove that access here, the access your LinkedIn data. To re-enable them in th on and grant access again. dded	ey .

#### Security: Data sharing with 3<sup>rd</sup> party apps

#### Data privacy and advertising

Suggesting you as a connection based on your email address	Change
Choose who can see you as a suggested connection if they have your email address	Nobody
Suggesting you as a connection based on your phone number	Change
Choose who can see you as a suggested connection if they have your phone number	Nobody
Representing your organization	Change
Choose if we can show your profile information on your employer's pages	No
Sharing data with third parties	Change
Choose if we can share your basic profile data with third parties	No
Advertising preferences	Change
Choose whether LinkedIn can use cookies to personalize ads	No

Apply your settings as shown in the above image.

*Choose the 'No' option for data sharing, advertising and representing your organisation.* 

Select 'Nobody' to suggest you as a connection based on your personal details.

#### **DO NOT DATA SHARE**

Remember, Social Media settings and options change all the time. Please check with the issuer (<u>DCGFutures@met.police.uk</u>) for the latest version of this guide.



### Security: Closing your account

	@ Account	🖗 Privacy	☑ Communications
Basics		Subscriptions	
Third parties Subscriptions		Try Premium for free Unlock the power of LinkedIn	Change
		Closing your account Learn about your options, and close your account if you wish	Change
-	. This preve	account <b>when it is no longer</b> nts it from being hacked and	ONLY WHEN NO LONGER NEEDED

## Secure Twitter



Note: all screenshots taken from the Twitter.com site. Twitter mobile apps will have differing features

To access Setti	ngs		
	1	First click here	
🔥 Home 🧳 Notifications 🎽 Messag	jes 🍯	Search Twitter	م 🔣 🔀 Tweet
	What's happening?		John Smith Author /iew profile
	While you were away	×	ists colored by the second by
John Smith Author @John_Smith			
TWEETS FOLLOWING FOLLOWERS 257 1,665 721			Keyboard shortcuts
	<b>2</b> Then click		
	mi mi	voman tweeted y whole life's y to the whole world!	}
		trict your posts, Twitte you Tweet it you've se see!	

#### **Account settings**

1 You can edit the user name visible to other users Account Change your basic account and language settings. Username js12345 John Smith Author https://twitter.com/js12345 @John\_Smith js12345@hotmail.com Email Account > Email will not be publicly displayed. Learn more. Security and privacy > English Language Password > Cards and shipping > (GMT+01:00) Casablanca Time zone Order history >

Do not use a work email address. Edit as necessary.

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<b>A</b>	• •
Seci	urity
	arrey

		Security and privacy       use a number you KNOW you will         Change your security and privacy       have access to over the life of the         Security       Twitter account!
Account	>	Login verification Don't verify login requests Send login verification requests to +1234567890 After you log in, Twitter will send a SMS message with a code that you'll need to access your account.
Security and privacy Password	>	Send login verification requests to the Twitter app Approve requests with one tap when you enroll in login verification on Twitter for iPhone or Twitter for Android. Learn more
Cards and shipping Order history	>	You will need to generate a temporary password to log in to your Twitter account on other devices and apps. Learn more
Mobile Email notifications	>	Password reset Require personal information to reset my password When you check this box, you will be required to verify additional information before you can request a password reset with just your @username. If you
Web notifications Find friends	>	have a phone number on your account, you will be asked to verify that phone number before you can request a password reset with just your email address.
Muted accounts Blocked accounts	>	Log in with code O Allow my account to log in with either a password or login code You are not eligible for this option because you have enabled login verification. Learn more
Design Apps	>	Always require a password to log in to my account You will be asked for your password every time you log in. This means you w not be able to log in by simply receiving a login code (via SMS or email). Lea more
<b>3</b> Make sure that ot easily change you and take over you	r passwo	rd 4

\* **Note**: using the Twitter App on a mobile device might expose you to being geo-located if your geo-location settings are left on, or turned back on by you or another person.

```
Secure Twitter
```



Secure Twitter

#### **Password management**

Now click here	1	2 Choose a strong passw	ord* & change it frequently.
Account	>		
Security and privacy	>	Current password	
Password	>	Forgot your password?	
Cards and shipping	>	New password sTr0ngP@s\$wor6	DO NOT USE THIS
Order history	>		PASSWORD!
Mobile	>	Verify password	
Email notifications	>		
Web notifications	>	Save changes	
Find friends	>		

\* A strong password contains **at least** 9 characters, includes no names, dates or common words, no repeating characters, and has a mix of lower case characters, upper case characters and numbers. Special characters (e.g. &,%,£,^,\$,%, etc.) can sometimes be used as well.



#### Notifications

		_
Account	>	
Security and privacy	>	1 Optional not recommended.
Password	>	
Cards and shipping	>	
Order history	>	Control when and how often Twitter sends emails to you. Learn more.
Mobile	>	
Email notifications	>	Email is enabled. Turn off
Web notifications <b>*</b>	>	Activity related to you and your Tweets
2 You can opt to receive alerts about all retweets, mentions, follows, etc. (recommended). * The Web		<ul> <li>Tailored for you</li> <li>▼ Tweets I'm mentioned in are marked as favorites</li> <li>Tailored for you</li> <li>♥ My Tweets are retweeted</li> <li>Tailored for you</li> <li>♥ Tweets I'm mentioned in are retweeted</li> <li>Tailored for you</li> <li>♥ My Tweets get a reply or I'm mentioned in a Tweet</li> <li>Tailored for you</li> <li>♥ I'm followed by someone new</li> <li>♥ I'm sent a direct message</li> <li>♥ Someone emails a Tweet to me</li> <li>♥ Someone from my address book joins Twitter</li> </ul>
<i>notifications</i> page provides similar options, but with fewer choices.		Activity related to your Retweets Email me when My Retweets are marked as favorites Tailored for you My Retweets are retweeted Tailored for you
	-	

Blocked accounts	5	Blocked accounts	
Account > Security and privacy >	1	You can export a list of blocked accounts, or import a list of those you want to block.	
Blocked accounts > Design > Apps >	<ul> <li>Accounts you're blocking</li> <li>You've blocked these accounts. You will not see their Tweets in your timeline. Additional blocked accounts cannot follow you or view your profile while logged in to Twitter. Learn more about blocking.</li> <li>All / Imported</li> </ul>		
You can also unblock a blocked account, or		Silly Man 1 @sillyman1 Silly Man 2 Blocked	
report it to Twitter.	Si	@sillyman2     Unblock       Silly Man 3     Report	



#### **Twitter Data**

	~				
Widgets       Your Twitter data	Your Twitter data A snapshot of your account information.				
	Account history				
	Account creation	Sep 18, 2011 at 6:58 AM			
1	Username	@js12345 Edit			
Check your Twitter	Email	js12345@hotmail.com Edit			
history. If you spot anything that seriously concerns you, consider	Phone	+123456789000 Edit Activation date: Aug 11, 20 Country: United Kingdom Carrier: vodafone_uk	13		
changing your	Device history				
password or even	-	used to access your Twitter accou	int.		
deleting your account.	Phones	Phones Twitter for iPhone			
		Activated on May 19, 2015 y from an app, go to the Apps tab to pur physical location. Learn more	o revoke its access. In some cases		
	APP	DATE & TIME	IP LOCATION		
	Twitter.com	Aug 14, 2015 12:52 PM	81.156.37.108 United Kingdom		
2	Twitter for iPhone	Aug 11, 2015 7:56 PM	81.156.37.108 United Kingdom		
You can download and	Twitter.com	Aug 6, 2015 1:44 PM	217.195.248.66 Netherlands		
backup your entire Tweet history for	Other data				
evidential purposes.	Contacts Manage the contacts imported from your address book.		ted from your		
	Twitter Archive	Download your entire Twee	t history.		
	Connected apps	Review the apps that you h your Twitter account.	ave given access to		
	Muted accounts	Review the accounts you've	e muted.		
	Blocked accounts	Review the accounts you've blocked.			

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#### Deactivation

Account	>	
Security and privacy	>	
Password	>	
Cards and shipping	>	
Order history	>	
Mobile		
Email notifications	Account Change your basic a	account and language settings.
Web notifications		
	Username	MarkJ_Books
		https://twitter.com/MarkJ_Books
	Email	mark.johnson@trmg.biz
		Email will not be publicly displayed. Learn more.
	Language	English
		Interested in helping translate Twitter? Check out the Translation Center.
	Time zone	(GMT+01:00) Casablanca
	Time 2016	(Givi + 01.00) Casabianca
	Content	
	Country	United Kingdom
1		Select your country. This setting is saved to this browser.
	Tweet media	Do not inform me before showing media that may be sensitive
Click here and	Interneting and	You will see all photos or videos even if they contain sensitive media.
carefully read the		Mark media I tweet as containing material that may be sensitive
text on the page that		Please check this box if your Tweets contain sensitive media so that users can be informed prior to viewing.
appears.		
At the time of	Video Tweets	Video autoplay Videos will automatically play across the Twitter website.
writing, deactivated		
accounts remain in	Your Twitter archive	Request your archive
suspense for 30 days		You can request a file containing your information, starting with your first
before Twitter permanently deletes		Tweet. A link will be emailed to you when the file is ready to be downloaded.
them.		Save changes
		Deactivate my account
		UNLESS SURE!
# Secure Google+



Note: all screenshots taken from the Google.com site. Mobile apps may have differing features.

#### **Google+ 'Settings'**

Settings v	arch Google+ Setting	Google .
Who	can interact with you and your posts can send you notifications? Learn more can comment on your public posts? Learn more	settings area. Please see the separate Gmail guide for pointers on securing your Google email account. Your circles \$
Share	ed Endorsements Off Edit	
Notifi Email:	cation delivery	
Phone		
Oc	ge subscriptions casional updates about Google+ activity and friend s casional updates from people outside your circles	suggestions
Recei	ve notifications	
	tified by email or phone when someone	
	Posts Circles	All Google+ settings are accessed via a single page which
	Photos Hangouts	is quite lengthy. Scroll down the page for more
	Events	settings options
	Communications about Google+ Pages Communities	
► r	Polls	

Secure Google+

#### To access 'Settings'

Google+ Search Google+	٩	Google+ Search Google+
Home V	All Friends Family Acquaintanc	Home     Profile
Mouse over 'Home' to access the menu	Share what's new Image: Share what's new         Image: Share what 's new	2 then click 'Settings'

#### **Posts and Endorsements**



```
Secure Google+
```

#### **Notifications and Subscriptions**



Secure Google+



```
Secure Google+
```

#### **Customise "Your circles"**

	Click here		
Your circles			
When you share posts, phones you're just following.		other things with "Your circles"	, you're sharing to all of your circle:
Customise			
Accessibility (	Customise "You	ır circles"	
c	ircles", you're sharing w	photos, profile data and other th vith all of your circles, except th cked in this list). Learn more	
Photos and Vide c	hoose who to include i	in "Your circles":	
Show geo loca	Friends		i mo
Allow viewers	<ul> <li>Family</li> <li>Acquaintances</li> </ul>	Think carefully about ho widely you want to share	
	Following	posts, photos and profile	
Don't feature n	Book Reviewers		Lear
Upload my pho	Authors		
			ancel Save
Storage used: Buy more store		C	ancel Save
Turning on full			
Google Drive			
		2	Turn <b>ON</b> to prevent Google from using your photos in ads.
Photos and Videos			
Show geo location by defa	wit on newly shared albu	ms. You can change the setting fo	r each album. Learn more
Allow viewers to download	I my photos and videos.		
Don't feature my publicly s	hared Google+ photos as	s background images on Google p	roducts & services. Learn more
Upload my photos at full s	ize.		
1			

#### Profile

Profile	
Show your Google+ communities posts on the Posts tab of your Google+ pro	file. Learn more.
Show these profile tabs to visitors (they're always visible to you): Learn more Photos YouTube / Videos +1 Reviews Allow people to send you a message from your profile Only you \$	Consider turning all of these options off. Preventing search engine indexing should be set to <b>OFF</b> . <u>Read</u> <u>the small print!</u>
<ul> <li>Help others discover my profile in search results. Learn more</li> <li>Unticking this box prevents most search engines from indexing your profile. It public posts or comments.</li> <li>Show how many times your profile and content have been viewed.</li> </ul>	does not prevent them from indexing any

#### **Location Settings**



#### **Disable Google**



# Cyber Cops Episode One The Case of the Facebook Friends





THE BURNT OUT CAR BELONGS TO THE DECEASED; ONE PAUL SMITH...

PAULSMITH



DS MIKE EVANS HAS A NEW MYSTERY ON HIS HANDS...



MA

THE LOCATIONS ARE 50 MILES APART BUT A SHOT WAS REPORTEDLY HEARD IN THE WOODS AT THE SAME TIME THE CAR WAS SPOTTED ON FIRE.

THE KILLER CAN'T HAVE ACTED ALONE. EVANS KNOWS HE NEEDS SOME EXPERT HELP.



DC ALISON KRAMER IS EVANS' TOP INVESTIGATOR.

D

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FIRST, I WANT TO SEE THE CRIME SCENE.

> KRAMER IS AN INTERNET AND COMMUNICATIONS SPECIALIST, BUT SHE KNOWS THE IMPORTANCE OF PHYSICAL EVIDENCE TOO.

WE'RE DEFINITELY LOOKING FOR TWO PEOPLE...



KRAMER IS THE FIRST DETECTIVE ON THE SCENE.

IF THE DEVICE BELONGED TO EITHER THE VICTIM OR HIS KILLER, IT COULD HOLD CRUCIAL DATA. IT TURNS OUT THAT THE VICTIM, PAUL SMITH, MADE SEVERAL CALLS ON THE DAY HE DIED; ALL TO A KNOWN DRUG DEALER NAMED TERRY DANGER...

MR. DANGER HAS A VIOLENT RECORD...



THE POLICE CAN'T SEE WHAT WAS SAID ON THE CALLS, BUTJUST FINDING THE CONNECTION BETWEEN THE TWO MEN IS A VERY IMPORTANT LEAD.

Vare C

DANGER AND SMITH ALSO HAVE ANOTHER FACEBOOK FRIEND IN COMMON; ONE AMELIA HEWITT.

A WITNESS REPORTED A DISTURBANCE AT THE ADDRESS ON THE NIGHT OF THE MURDER.

m

DID SMITH VISIT HER? 9

WE KNOW HEWITT RUNS TERRY DANGER'S DRUGS DEN... ANOTHER CHECK OF SMITH'S CALL RECORDS CONFIRMS THAT HE MADE HIS FINAL CALL FROM THE VICINITY OF THE DEN...



AND AUTOMATIC NUMBER PLATE RECOGNITION DATA SHOWS SMITH'S CAR TRAVELLING ON A ROUTE THAT CONNECTS HIS HOME <u>TO</u> THE DEN...

KRAMER AND EVANS DECIDE THAT IT ALL ADDS UP. DANGER AND HEWITT ARE THEIR SUSPECTS.







SMITH WAS FORCED INTO THE BOOT OF DANGER'S CAR...

MEANWHILE, HEWITT DROVE SMITH'S CAR AWAY AND SET FIRE TO IT.



WHEN DANGER RANG HEWITT TO CHECK UP ON HER, HE TOLD HER THAT HE HAD 'SORTED BOYO PERMANENTLY'.



THE EVIDENCE IS BULLET PROOF. DANGER IS CONVICTED AND SENTENCED TO LIFE.



DATA ANALYSIS, OPEN SOURCE (ONLINE) INTELLIGENCE, AND DEVICE FORENSICS ARE ALL KEY ELEMENTS OF EFFECTIVE MODERN

Wh

### Secure Browsers

HACKER GIRL IS ALWAYS WORRIED THAT SOMEONE COULD ACCESS HER LAPTOP OR MONITOR HER ONLINE AND SEE WHAT SHE'S BEEN UP TO. SHE PROTECTS HERSELF, IN PART, BY USING PRIVATE BROWSING FEATURES AND TRYING TO LIMIT WHAT SITES RECORD ABOUT HER ACTIVITIES AND LOCATION.



If you use the default browser settings on most browsers, all of your browsing activities may be logged on your device.

This means that anyone who gains access to your device, including a hacker operating remotely, can see what you've been looking at. If this is case data, it might be very sensitive, but personal data is also of great value to criminals.

Adjusting your browser settings is not a catch-all solution; internet service providers and visited sites will also capture and store the details of your activities, but at least you will have reduced your risks and ensured that a simple error, such as failing to log-off, or leaving your laptop on the train, is less likely to cause major grief. Other controls, including encryption of data and secure login procedures, are equally important and effective; it's all about using a combination of techniques.

### Secure Opera



Note: all screenshots taken from the .com site. Mobile versions may have differing features.

#### **Accessing Settings**

	New tab New window New private window Bookmarks	Ctrl+N	Click here		
000	Page Zoom < Print	> 100% > (++) Ctrl+P		Google Sea	rch the web
•	Discover Bookmarks	Ctrl+Shift+B	2		
	Synchronize			facebook	imgur
() ()	Downloads History	Ctrl+J Ctrl+H	Then click here	Tacebook	inigoi
泰	Settings	Alt+P		Facebook	

#### **Location tracking**

Settings Q Search settings	Pop-ups Allow all sites to show pop-ups Do not allow any site to show pop-ups (recommended) Manage exceptions
Browser Websites Privacy & security Opera help	Location <ul> <li>Allow all sites to track my physical location</li> <li>Ask me when a site tries to track my physical location (recommended)</li> <li>Do not allow any site to track my physical location</li> <li>Manage exceptions</li> </ul>
Select 'Websites'	1 Set to 'Do not allow' location tracking

Privacy & secu	irity
Select 'Privacy & security'	1 Click Clear browsing data
Settings Q Search settings Browser Wabsites	Privacy Clear browsing data Dearn more Opera may use web services to improve your browsing experience. You may optionally disable these services. Use a prediction service to help complete searches and URLs typed in the address bar Predict network actions to improve page load performance Help improve Opera by sending feature usage information Automatically send crash reports to Opera Send a 'Do Not Track' request with your browsing traffic
Privacy & security Opera help	Want even more privacy?         Enhance your online experience and enjoy superior privacy, security, and freedom, even on public Wi-Fi. Learn more about <u>SurfEasy VPN</u> . SurfEasy is an Opera Software company.         Autofill         Enable auto-filling of forms on webpages         Manage Autofill settings
browsing habits.	the beginning of time ta gines will not be cleared and may reflect your Clear browsing data Cancel
Learn more	

#### **Privacy & security**

Settings	Privacy Clear browsing data <u>Learn more</u> Opera may use web services to improve your browsing experience. You may optionally disable these services.
<b>Q</b> Search settings	Use a prediction service to help complete searches and URLs typed in the address bar Predict network actions to improve page load performance
Browser	Help improve Opera by sending feature usage information
Websites	Automatically send crash reports to Opera
	Send a 'Do Not Track' request with your browsing traffic
Privacy & security Opera help	Want even more privacy? Enhance your online experience and enjoy superior privacy, security, and freedom, even on public Wi-Fi. Learn more about <u>SurfEasy VPN</u> . SurfEasy is an Opera Software company.
	Autofill
	Enable auto-filling of forms on webpages       Manage Autofill settings         Deselect       these
	Passwords options.
	Offer to save passwords I enter on the web
	Manage saved passwords
	HTTPS/SSL
	Manage certificates
	Cookies Select this
	<ul> <li>Allow local data to be set (recommended)</li> <li>Keep local data only until I quit my browser</li> <li>Block sites from setting any data</li> <li>Block third-party cookies and site data</li> </ul>
	Manage exceptions All cookies and site data Learn more

#### Private browsing

	Dpera IIII Speed Dial New tab New window	Ctrl+T Ctrl+N	w
	New private window	Ctrl+Shift+N	
	Bookmarks	:	
	Page	:	
	Zoom	: 100% > 🛟	
	Print	Ctrl+P	
	Speed Dial		
0	Discover		
۷	Bookmarks	Ctrl+Shift+B	
٩	Synchronize		
<u>ۍ</u>	Downloads	Ctrl+J	
0	History	Ctrl+H	
유	Settings	Alt+P	
•	Themes Extensions		
			-
	Get extensions		
	Opera Turbo		
	More tools		
	Help	F1	
	About Opera		
	Exit	Ctrl+Shift+X	



The last thing I want is someone reviewing all my searches... I always use private browsing.

#### Secure Opera

#### **Clear browsing data shortcut**



Access the menu as shown or press the Ctrl+Shift+Del keys to quickly clear your browsing history.

#### Site security badges

✓ Opera ← → Goo	G www.google.com - Google × + C III A www.google.co.uk/se gle www.google.com	rch	<u>२</u>
	Web Videos New	s Images	Maps More - Search tools
lcon	Indicates		Site security badge.
0	Accelerated connection		
	Camera access Fraud or malware warning		
•	Local file		
•	Location access		
0	Opera page		
	Secure connection Unprotected connection		Take careful note of the site security badges displayed for each website you visit.



# Secure Chrome



#### Accessing the Menu

New extension added (Dragon NaturallySpeaking	Rich Internet Applica	ation Suppo	ort)	☆		Click here t access the
New tab				Ctrl+T		menu
New window				Ctrl+N		
New incognito window			Ctrl+S	hift+N	U	
History and recent tabs				Þ	ll –	
Downloads				Ctrl+J		
Bookmarks				►		
Zoom		- 10	00% +	53		
Print				Ctrl+P		
Find				Ctrl+F		
More tools				Þ		
Edit		Cut	Сору	Paste		<i></i>
Settings						Then select 'Settings'
Help and about				×		Settings
Exit			Ctrl+S	hift+Q		2

### Accessing Advanced Settings

🗘 🗱 Settings	×	
← → C 🗋 🤆	chrome://settings	
Chromo	Sattinga	
Chrome	Settings Search settings	
History	Sign in	
Extensions	Sign in to get your bookmarks, history, passwords and other settings on all your devices. You'll also automatically	
Settings	be signed in to your Google services. <u>Learn more</u>	
About	Sign in to Chrome	
	On startup	
	Open the New Tab page	
	Continue where you left off	
	Open a specific page or set of pages. Set pages	
	Appearance	
	Get themes Reset to default theme	
	Show Home button	
	Always show the bookmarks bar	
	Search	
	Search Set which search engine is used when searching from the <u>omnibox</u> .	
	Google   Manage search engines	
	People	
	Person 1 (current)	
	✓ Enable Guest browsing	
	Let anyone add a person to Chrome	
	Add person         Edit         Remove         Import bookmarks and settings	
	Default browser	
	Make Google Chrome the default browser	
	Google Chrome is not currently your default browser.	
	Show advanced settings	
	Scroll down to the end of	
	the page and then click	
	'Show advanced settings'	

#### Privacy and saved passwords

Privacy
Content settings Clear browsing data
Google Chrome may use web services to improve your browsing experience. You may optionally disable these
services. <u>Learn more</u>
Use a web service to help resolve navigation errors
Use a prediction service to help complete searches and URLs typed in the address bar or the app launcher search box
Prefetch resources to load pages more quickly
Automatically report details of possible security incidents to Google
Protect you and your device from dangerous sites
Use a web service to help resolve spelling errors
Automatically send usage statistics and crash reports to Google
✓ Send a "Do Not Track" request with your browsing traffic
Passwords and forms
Enable Autofill to fill out web forms in a single click. Manage Autofill settings
Offer to save your web passwords. Manage passwords
Using the settings shown above does not guarantee security, but will help to reduce exposure. Note that websites can ignore 'Do Not Track' preferences.

#### **Accessing Content Settings**

Privacy Content settings Clear browsing data	Click to access Content settings
Google Chrome may use web services to improve your browsing expension services. Learn more	erience. You may optionally disable these
Use a web service to help resolve navigation errors	
Use a prediction service to help complete searches and URLs type search box	ed in the address bar or the app launcher
Prefetch resources to load pages more quickly	
Automatically report details of possible security incidents to Goo	gle
Protect you and your device from dangerous sites	
Use a web service to help resolve spelling errors	
Automatically send usage statistics and crash reports to Google	
Send a "Do Not Track" request with your browsing traffic	
Passwords and forms	
Enable Autofill to fill out web forms in a single click. Manage Auto	ofill settings
Offer to save your web passwords. Manage passwords	



#### Secure Chrome

#### **Content settings - Cookies**





#### Secure Chrome

#### **Control location tracking**





#### **Content settings – Microphone & Camera**

		U		
Content settings		×		
Manage exceptions		*		
Protected content				
Some content services use machine identifiers to uniquely identify	you for the purposes of authorizing	g access		
to protected content.				
Allow identifiers for protected content (computer restart may be)	be required)			
Microphone	Г			
Default 👻				
Ask when a site requires access to your microphone (recommendation)	ended)			
Do not allow sites to access your microphone				
		Unless requ	uired, do not	
Manage exceptions		allow sites	to access	
Adobe Flash Player microphone settings are different. <u>Change</u>		your micro	phone or	
Camera		camera.		
Logitech QuickCam I 🔻				
Ask when a site requires access to your camera (recommended)				
Do not allow sites to access your camera				
Manage exceptions				
		·		
		Done		
Plugin access				
Flugill access				
	Limit the ability of	×	Only own ort	
Content settings	websites to freely us		Only expert users and	
Unsandboxed plugin access	browser plugins to access your device.	*	administrat	ors
Allow all sites to use a plugin to access your computer			should adju	
<ul> <li>Ask when a site wants to use a plugin to access your computer</li> </ul>	tor (recommanded)		the other	
			settings on	this
Do not allow any sites to use a plugin to access your computed in the plugin to access your computed in t	ter		page.	
Manage exceptions		-		
		Done		

### Access 'Clear browsing data'

Privacy	Click 'Clear browsing data'
Content settings Clear browsing data	
Google Chrome may use web services to improv	ve your browsing experience. You may optionally disable these
services. <u>Learn more</u>	
Use a web service to help resolve navigation	n errors
Use a prediction service to help complete se search box	earches and URLs typed in the address bar or the app launcher
Prefetch resources to load pages more quic	kly
Automatically report details of possible second Automatically report details of possible second	urity incidents to Google
Protect you and your device from dangerou	is sites
Use a web service to help resolve spelling e	rrors
Automatically send usage statistics and cras	ih reports to Google
Send a "Do Not Track" request with your br	owsing traffic
	-
Passwords and forms	
Enable Autofill to fill out web forms in a sing	gle click. Manage Autofill settings
Offer to save your web passwords. Manage	passwords
2	Clear browsing data
	Obliterate the following items from: the beginning of time 🔻
Set as shown to clear	Browsing history
most of your browsing	<ul> <li>Download history</li> <li>Cookies and other site and plugin data</li> </ul>
history.	<ul> <li>Cocket and other site and plagin data</li> <li>Cached images and files</li> </ul>
· · · · · · · · · · · · · · · · · · ·	✓ Passwords
	✓ Autofill form data
Using the settings shown does not	Hosted app data
guarantee security, but	Content licenses
will help to reduce	Learn more Clear browsing data Cancel
exposure. Note that	Cancer browsnig data
parts of your browsing history may still be	Saved content settings and search engines will not be cleared and may reflect your
saved elsewhere.	browsing habits.

## Secure Firefox



Note: all screenshots taken from the .com site. Mobile versions may have differing features.



```
Secure Firefox
```

#### **Options - Search**

.0. General	Search Select 'Search'	
<ul> <li>Q Search</li> <li>Content</li> <li>Applications</li> <li>Privacy</li> <li>Security</li> <li>Sync</li> </ul>	Default Search Engine Choose your default search engine. Firefox uses it in the location bar, Google Provide search suggestions Set this to 'On' for One-click search engines The search bar lets you search alternate engines directly. Choose which	optimum search performance
د Advanced	Search Engine         ✓       ⑧         ✓       ⑧         ✓       ⑨         Ø       ⑨         Bing         Restore Default Search Engines         Add more search engines	Keyword <u>R</u> emove

### **Options - Privacy**

[]] General	Privacy Select 'Privacy'
<b>Q</b> Search	
E Content	Tracking       Tell sites that I do not want to be tracked     Select to turn off tracking     2
🗢 Privacy	History
📥 Security	Firefox <u>w</u> ill: Never remember history
💭 Sync	Firefox will use the same settings as private blowsing, and will not remember any history as you browse the Web.
💩 Advanced	You may also want to clear all current history.  Location Bar  When using the location bar, suggest:  History  Bookmarks  Open tabs
	You can clear your current history (recommended).

```
Secure Firefox
```

#### **Options - Advanced - General**



#### **Options - Advanced - Update**



### Secure IE



Note: all screenshots taken from the .com site. Mobile versions may have differing features.

#### **Accessing Safety Options & Settings**

	Click to access the menu	*
C https://www.google.co.uk/ P - D C Google X Google X	Delete browsing history       Ctrl+Shift+Del         InPrivate Browsing       Ctrl+Shift+P         Turn on Tracking Protection       Turn off Do Not Track requests         ActiveX Filtering       Webpage privacy policy         Check this website       Turn off SmartScreen Filter         Report unsafe website       Ctores filter	Print       ▶         File       ▶         Zoom (100%)       ▶         Safety       ▶         Add site to Start menu       >         View downloads       Ctrl+J         Manage add-ons       F12 Developer Tools         Go to pinned sites       Compatibility View settings         Report website problems       Internet options
Then select 'Safety' for a of popular options	quick list	About Internet Explorer
3	Or click 'Internet options' to the main security settings a	

#### **Internet Options - General**

Internet Options           General         Security         Privacy         Content         Connections         Programs         Advanced	5	Select a 'safe' home page that does not
Home page To create home page tabs, type each address on its own line. https://www.google.co.uk/		imply any specific browsing habits.
Use current Use default Use new tab		
Startup Start with tabs from the last session  Start with home page		Set IE to start with the home page.
TabsChange how webpages are displayed in tabsTabs		
Browsing history Delete temporary files, history, cookies, saved passwords, and web form information.	~	Set to delete browsing history on exit.
Delete Settings		CAR.
Colors Languages Fonts Accessibility		Now click 'Settings'.
OK Cancel Apply		
### **Internet Options – General - Settings**

Internet Options General Security Privacy	Content Connections Programs Advanced Select the 'History' tab
H Website Data Settings	? 💌
Temporary Internet F	les History Caches and databases
Specify how many da	ys Internet Explorer should save the list
of websites you have Days to keep pages i	
2 Set this	value to '0'.
	Select the 'Caches and databases' tab
	OK Cancel
	Website Data Settings
	Temporary Internet Files History Caches and databases
	Allow website caches and databases Notify me when a website cache or database exceeds:
Deselect this option.	Website File Storage Data Storage Exceed limit
	windowsphone.com 4 MB 0 MB N/A Exceed limit Delete
	OK Cancel

### **Internet Options – Security**



### **Internet Options – Privacy**

Internet Options		Sele tab.	ct the 'Privacy'
General Security Privacy Content Connections Programs Advanced		tub.	
Settings			
Select a setting for the Internet zone.			
Medium High			
<ul> <li>Blocks third-party cookies that do not have a compact privacy policy</li> <li>Blocks third-party cookies that save information that can be used to contact you without your explicit consent</li> <li>Blocks first-party cookies that save information that can be used to contact you without your implicit consent</li> </ul>			Choose the cookie setting that suits your role.
Sites Import Advanced Default			2
Never allow websites to request your     Dear Sites	h		
Pop-up Blocker			Select all three
Turn on Pop-up Blocker Settings			settings as shown
InPrivate			(recommended).
Disable toolbars and extensions when InPrivate Browsing starts			3
OK Cancel Apply			

### **Internet Options – Content**

Internet Options	? 🛛		<u> </u>	Select the 'Content'	
General Security Privacy Content Connections Programs	Advanced			tab	
Family Safety					
Control the Internet content that can Bramily be viewed.	Safety				
Certificates			_		
Use certificates for encrypted connections and identi	fication.			Click 'Settings'	2
Clear SSL state Certificates Publish	iers				
AutoComplete		T			
AutoComplete stores previous entries Settin on webpages and suggests matches for you.	igs				
AutoComplete Settings					
AutoComplete lists possible matches from entries you've typed or visited before. Use AutoComplete for	ps				
			_	Choose the auto-	
Address bar					3
Favorites				complete settings	9
Feeds				that suit your role.	
Use Windows Search for better results					
✓ Suggesting URLs					
Forms	Apply				
User names and passwords on forms					
✓ Ask me before saving passwords					
Delete AutoComplete history					
			Clic	k 'Delete	
OK Cancel			Aut	oComplete history'.	4
	-				

### **Internet Options – Advanced**

Internet Options	Select the 'Advanced' tab
Settings  Security  Allow active content from CDs to run on My Computer*  Allow active content from CDs to run on My Computer*  Allow active content to run in files on My Computer*  Allow software to run or install even if the signature is invi Block unsecured images with other mixed content  Check for publisher's certificate revocation  Check for server certificate revocation*  Check for signatures on downloaded programs  Do not save encrypted pages to disk  Empty Temporary Internet Files folder when browser is ck  Enable DOM Storage  Enable Enhanced Protected Mode*  Enable Integrated Windows Authentication*  Enable Integrated Windows Authentication*  Check for server XMLHTTP support	Scroll down to 'Security'. Consult your administrator for the settings required in your organisation.
Image: Article House House Article House	Restart your computer to make sure that all new settings take effect.

# Secure Smart Phone

SMART PHONES ARE INCREASINGLY USED BY ALMOST EVERYONE, FROM TOP EXECUTIVES TO FRONTLINE STAFF. BOTH VICTIMS AND PERPETRATORS OF CRIME USE THESE DEVICES, WHICH REPRESENT A REAL TARGET FOR CRIMINALS AND INVESTIGATORS



If a criminal gets hold of your smart device, and you have not made sure that it is secure, the stolen smart phone could put you at risk.

Contact information, messages, photos, social media feeds, location data and more can all be derived from a mobile device.

While deeper device forensics requires a great deal of skill and the right equipment, even a layman might be able to learn a lot about you from a quick look through an insecure handset or tablet.

## Secure Smart Phone Android devices



### Connections

ন্থি 🔏 🔏 100'	% 📋 19:29		
Settings		i i i	
ECTIONS MY DEVICE ACCOUNTS	MORE		•
Network connections			Turn off Bluetooth
🤝 Wi-Fi	-		unless required. Always keep it off when not in use.
Bluetooth	-		
ᠬ Data usage			
More networks			
Connect and share		ר	2
NFC Allow data exchange when device touches another device.	-		Turn off Connect and Share options unless
S Beam Send files via NFC and Wi-Fi Direct	-		essential
Bhare your media files via Wi-Fi, Wi Fi Direct, or using Mobile hotspot.	-		
Screen Mirroring Share your device's screen with and device.	other		

Secure Android

### **My Device**



### Lock Screen

<ul> <li>✓ Lock screen</li> <li>Screen security</li> <li>Screen lock</li> <li>Secured with PIN</li> <li>Secured with PIN</li> <li>Secured with PIN</li> <li>Cancer shortcut</li> <li>✓</li> <li>Additional information On</li> <li>Lock automatically</li> <li>Screen will be locked in 5 seconds after screen automatically turns off.</li> </ul>	
Screen lock Secured with PIN Secured with PIN Cock screen widgets Customise your clock and personal message. Camera shortcut Camera shortcut Camera shortcut Camera shortcut	
Secured with PIN Secured with PIN Lock screen widgets Customise your clock and personal message. Camera shortcut Additional information On Lock automatically Screen will be locked in 5 seconds after screen	•
Lock screen widgets   Customise your clock and personal message.   Camera shortcut   Additional information On   Lock automatically Screen will be locked in 5 seconds after screen	Set a lock screen PIN
Customise your clock and personal message. Camera shortcut Additional information On Lock automatically Screen will be locked in 5 seconds after screen	
Additional information On Lock automatically Screen will be locked in 5 seconds after screen	
On Lock automatically Screen will be locked in 5 seconds after screen	
Screen will be locked in 5 seconds after screen	2
	Set automatic locking and power key locking to ON
Lock instantly with power key	

### **Backup options**



Secure Android

### Location and Application management

97	% 🗎 19:34		•
Settings		h I	Turn off location
CONNECTIO MY DEVICE ACCOUNTS	MORE		services, unless required
Cocation			
6 Security			
System manager			
Application manager			
🙂 Default applications			
Battery	$\overline{\ }$	- al	2 Review your
📁 Storage		$\square$	installed Apps and remove any unwanted ones.
Date and time			
O About device			

83

```
Secure Android
```

### Security



### Security



### **Security updates**





These days, smartphones hold loads of sensitive data.

Some people just don't see the rísks, but I guess 'smart phone' doesn't always equal 'smart user'!



## Secure Smart Phone Blackberry

### **To access Security settings**

S	earch
***	PIN, auto on/off, battery, storage
6	Call Management Call behaviour, voice mail, speed dial
•	Security Password, encryption, firewall
Ł	Accessibility Display, sound and input options
-	Third Party Applications Options for third-party applications

Enter the Options menu and then select Security

### Password

Security			
Rassword Control access to your device		Select Pa	ssword from
Encryption Protect your information and files			rity menu 🗸 🗸
Smart Card Set up reader and import certificates			
Parental Controls Limit use of applications and services		Password	
Firewall Block certain types of messages		General	<u>ه</u>
Security Wipe	<b>~</b>	Enable:	Change Password
		Number of Passw	ord Attempts:
<ul> <li>Enable password control</li> <li>Select a strong password</li> </ul>	h /	·	3 🔻
Limit the number of attempts		Lock After:	2 Min. 🔻
<ul><li>Set a lock screen period</li><li>Set to prompt on App install</li></ul>	2	Prompt on Applic Allow Outgoing C	ation Install:

### **Holstering lock**

	Password	<b></b>
	Enable:	
		Change Password
	Number of Passy	word Attempts:
		3 🗸
'	Lock After:	2 Min. 🔻
	Prompt on Appli Allow Outgoing	cation Install:
	Lock Handheld L	
		Enable: Number of Passo Lock After: Prompt on Appli Allow Outgoing

### Encryption



### **PIN Caching**

Security         Password         Control access to your device         Encryption         Protect your information and files         Smart Card         Set up reader and import certificates         Parental Controls         Limit use of applications and services         Firewall         Block certain types of messages         Security Wipe         Delote data files or applications	Next, select Smart Card from the Security menu
2 Deactivate PIN Caching	General PIN Caching: LED Session Indicator: Registered Reader Drivers Media Card
Firewall Ceneral Circles Constraints Const	Registered Card Drivers PIV GSA CAC
Block Incoming Messages         Selecting any of these options will block all of the related incoming message types. Charges for text messages or any messaging data usage may apply even when blocked.         Text Messages       0 blocked         PIN       0 blocked         Personal Email       0 blocked         Enterprise Email       0 blocked	
Encryption Protect your information and files Smart Card Set up reader and import certificates Parental Controls Limit use of applications and services Firewall Block certain types of messages	Select Parental Controls and consider whether to activate
Security Wipe Poloto data, filos or applications	Parental Controls  Parental Controls  Enable:

### Firewall



### Firewall

Control access to your device		Select Data for Wiping
Encryption Protect your information and file	es	Emails, Contacts, etc.
<ul> <li>Smart Card</li> <li>Set up reader and import certified</li> </ul>	cates	All application data will be lost! You will not be able to send or receive email on this device after you wipe it.
Parental Controls Limit use of applications and se	rvices	User Installed Applications All applications that you have loaded will be
<b>Firewall</b> Block certain types of message	s	removed from your device. Media Card
Security Wipe		Confirmation
		Enter " <b>blackberry</b> " to confirm wipe:
Wipe all data a Apps from your when approprie	r device	Wipe

## Secure Smart Phone iOS (iPhone/iPad) devices



#### **To access Settings** Locate the Settings icon on your device and press it ●●●●○ vodafone UK 훅 15:54 Only use trusted, Settings secure WiFi networks **Airplane Mode** $\rightarrow$ Turn Bluetooth off Wi-Fi **? BTHub** unless needed \* Bluetooth Off > ((<sub>A</sub>)) Mobile > **Personal Hotspot** Off > Carrier vodafone UK > Turn Hotspot off unless needed **Notifications** > **Control Centre** > **Do Not Disturb** Now press the 'General' menu option $\mathfrak{O}$ General

#### Secure iOS

### **Auto-Lock**



### Restrictions



```
Secure iOS
```

### **Privacy - Location Services**



```
Secure iOS
```

### **Privacy – Frequent Locations**





Scroll down to the bottom of the System Services screen and turn 'Status Bar Icon' **ON** to receive alerts in your status bar when a service requests your location.

```
Secure iOS
```

### Privacy – Ad Tracking



#### **Share My Location** Share My Location ●●○○ vodafone UK 중 ●●○○○ vodafone UK 중 15:59 15:57 \* 🗖 \* 🗖 Privacy **Location Services** K Back **Share My Location** Share My Location **Location Services** This Device > From Location Services uses GPS, Bluetooth, and crowd-sourced Wi-Fi hotspot and Share your location with family and friends mobile tower locations to determine your in Messages and Find My Friends. approximate location. About Location Services & Privacy... People who can see your location will appear here. Share My Location > Set Share My Location to OFF. I was able to track the banker's location because he: 1. Left location services and location sharing on. 2. Was running a social App that automatically signed him in and showed his location in his public profile.

#### Secure iOS

### Contacts



Secure iOS



### Safari Browser

Mail, Contacts, Calendars Notoe Safari		Image: constraint of the example of
•••••• vodafone UK  17:06 Settings Safari PRIVACY & SECURITY Do Not Track		•••••• vodafone UK  17:06   Settings Safari   PRIVACY & SECURITY Do Not Track
Block Cookies Allow from Web >		Block Cookies Allow from Web >
Fraudulent Website Warning         About Safari & Privacy		Fraudulent Website Warning         About Safari & Privacy
Clear History and Website Data		Clear History and Website Data
READING LIST Use Mobile Data		Clearing will remove history, cookies and other browsing data.
Use mobile network to save Reading List items from iCloud for offline reading.	Regularly	History will be cleared from devices signed in to your iCloud account. Clear History and Data
Advanced >		Cancel

## Secure Smart Phone Windows devices





Secure iOS

### **Location services**



### **Location settings**



### Find my phone



### **Advertising ID**



### Feedback



### **App permissions**



### Backup



## Hacker Girl Episode Two Will you be my friend?



Copyright: The Risk Management Group January 2016
ACKER GIRL MANAGEED TO STEAL THE BANKER'S EMAILS FOR A CRIME GANG, BUT THEY WERE NOT SATISFIED. NOW THEY WANT HER TO STEAL HIS LAPTOP FOR THEM!



ACKER GIRL IS ALREADY COMING UP WITH A PLAN. SHE'S RELUCTANT, BUT ACCESSING SYSTEMS AND ENGINEERING PEOPLE ARE HER KEY TALENTS; SHE CAN'T HELP BUT FEEL STIMULATED BY THE CHALLENGE...

SHE IS PLANNING. GREAT!

> ACKER GIRL RECALLS HER ENCOUNTER WITH THE BANKER IN THE PARK. SO, SHE KNOWS HE'S A DOG LOVER...

œ

НМММ... МАУВЕ.

YES BOSS. OF COURSE SHE DO IT. IF NOT, SHE KNOWS -BYE, BYE!

EANWHILE, THE GANG MAKES AN OVERSEAS CALL. ACKER GIRL SPENDS A LOT OF TIME WALKING HER DOG, KEYSTROKE, IN THE PARK NEAR HER HOME. OVER THE NEXT FEW DAYS, SHE SPOTS THE BANKER SEVERAL TIMES AND SMILES AT HIM AS THEY PASS...





HE'S ONLY INTERESTED IN HIS MUSIC.



A SEARCH ON FACEBOOK REVEALS THAT THE BANKER LIKES AN INDIE MUSIC BAND CALLED THE HOWLING MONKIES...







# Gmail 2-factor authentication



## Accessing security



#### Secure Gmail

# Choosing 2-step verification ('authentication')



GET STARTED

Keep the ba

Keep the bad guys out

Even if someone else gets your password, it won't be enough to sign in to your account.

Now click the 'Get Started' button.

```
Secure Gmail
```

## **Configure 2-step verification**



## **Configure 2-step verification**



# Snapchat





### **Security: Access & edit**

Don't give away your real name, mobile number, D.O.B or your official email address.

2

3

1

Avoid creating a Snapcash account

Hide the access to your profile by selecting 'My friends' in the **WHO CAN... Contact me** & **View My Story** sections.

<	Settings
MY ACCOUNT	
Name	!>
Username	Username
Birthday	24 May 1992 >
Mobile Number	•••
Email	Email:@gmail.com !>
Password	>
Login verification	>
Notifications	>
Snapcash	>
ADDITIONAL SERVICES	
Manage	>
WHO CAN	
Contact me	My Friends >
View My Story	My Friends >



## **Security: Permissions**

Apply your settings as shown in the image.

Switch off location, microphone and access to your contact list.

By clicking "Edit Permissions" you will go to your phone settings.

#### Permissions

Snapchat uses the following permissions while you're using the app.

#### Location

<

Use your location for features such as Geofilters and Live Stories, and for other services that improve your experience.

#### Camera

Use your camera to take Snaps, video chat, add friends by Snapcode, and more.

#### Microphone

Use your microphone to record audio for Snaps, video chat, and more.

#### Notifications

Off

Off

Off

Off

Receive notifications when friends contact you on Snapchat, when other Snapchatters add you and for other important events.

#### Photos

Save Snaps and Stories to your device's camera roll, send photos and videos in Chat, and more.

#### Contacts

We may collect and use information from your device's address book so you can invite friends, and so we can improve the app.

Edit permissions

122

Security: Account actions	
Clear browser data	>
Clear Conversations	>
Restore purchases	> Go back to your
Blocked	settings and choose the
Log Out	Account Actions tab.
	ear your browser data and conversations, people, or log out from the account.

# **Security: Deleting data**

ear browser data	Are you sure you want to clear browser data?
Click on clear your browser data tab	Clear
and you will see this pop up window.	CANCEL

# Credits





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#### <u>Disclaimer</u>

Social Media, Browser, App and device security settings change constantly. Check your settings and options regularly to ensure that you are using the highest levels of security.

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