

Stay Secure Online 2016

A review of the privacy options currently 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.

The Case of the Naïve Banker

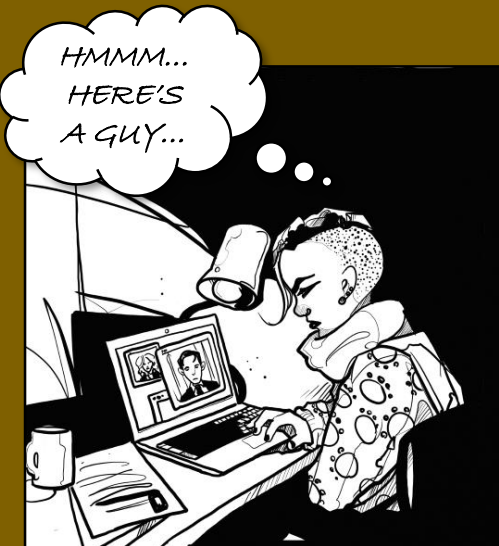


Criminals regularly use social media as a reconnaissance tool.

HACKER 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...



SHE 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.



AFTER SEVERAL TRIES, SHE FINALLY SPOTS HER MAN.

THERE HE IS!

I'LL USE THIS WIFI HIJACKING TOOLKIT...



HACKER GIRL USES A SPECIALIST TOOLKIT TO HIJACK THE BANKER'S WIFI CONNECTION.

THE BANKER'S IS USING A PUBLIC WIFI HOTSPOT DURING HIS BREAK TO SEND UNENCRYPTED EMAILS TO CLIENTS.

Zap!



BINGO!!!



I HOPE THIS IS THE END OF IT...

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

GOOD FIRST JOB, BUT WE NEED HIS LAPTOP?

OH WOW...

THE GANG WANTS MORE FROM HER...

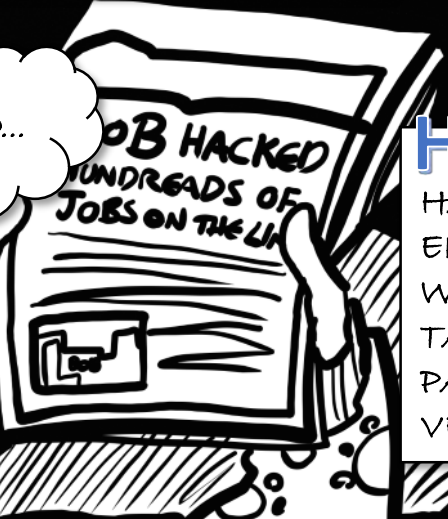


MEANWHILE, EOB CLIENTS HAVE BEEN DEFRAUDED AND BANK STAFF ARE BEING FIRED...



THAT'S HIM!

NOOO...



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



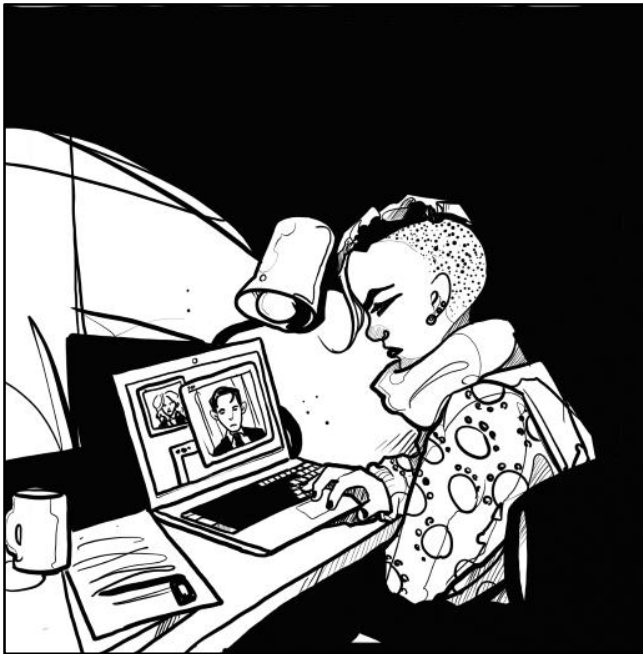
I FEEL AWFUL.

WHAT 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 BOTH 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.

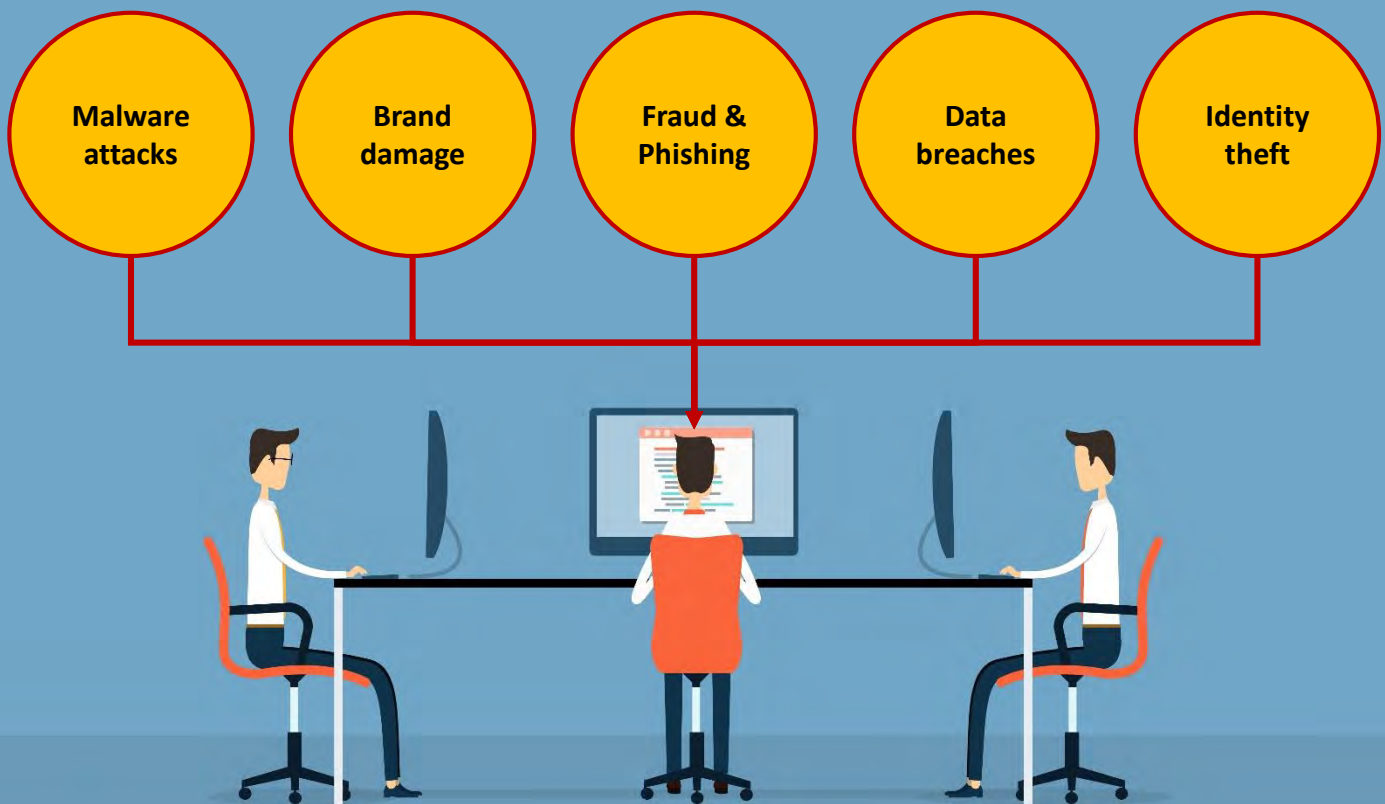
This section of the guide provides some high level advice about secure social media practices, as well as details on how you can adjust your security settings to better protect yourself and your colleagues online.

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

1. 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.
10. 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.
7. Leave devices logged on and unattended.
8. Use public WiFi for sensitive tasks.
9. Auto ‘check-in’ to hotspots or social feeds.
10. Visit the profiles of persons of interest using insecure or personal accounts.

Understanding your online footprint

Online activity is recorded by visited sites, or by spyware on infected devices.

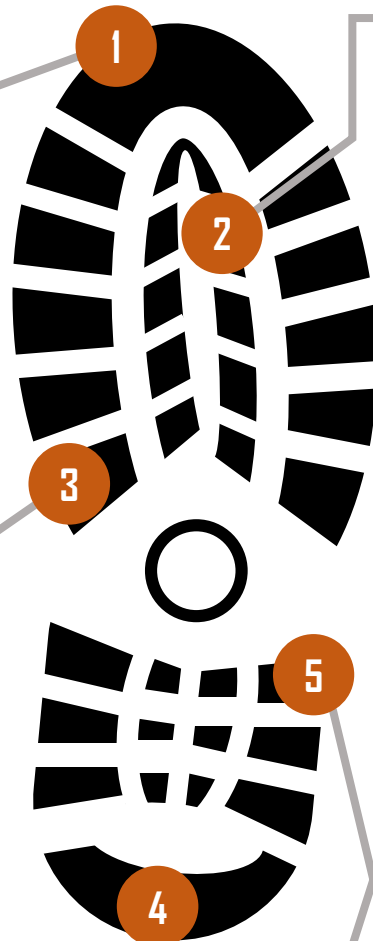
Geo-location data, check in and travel updates on social media and other sites may be published online.

Examination of email headers & other records can reveal IP your address.

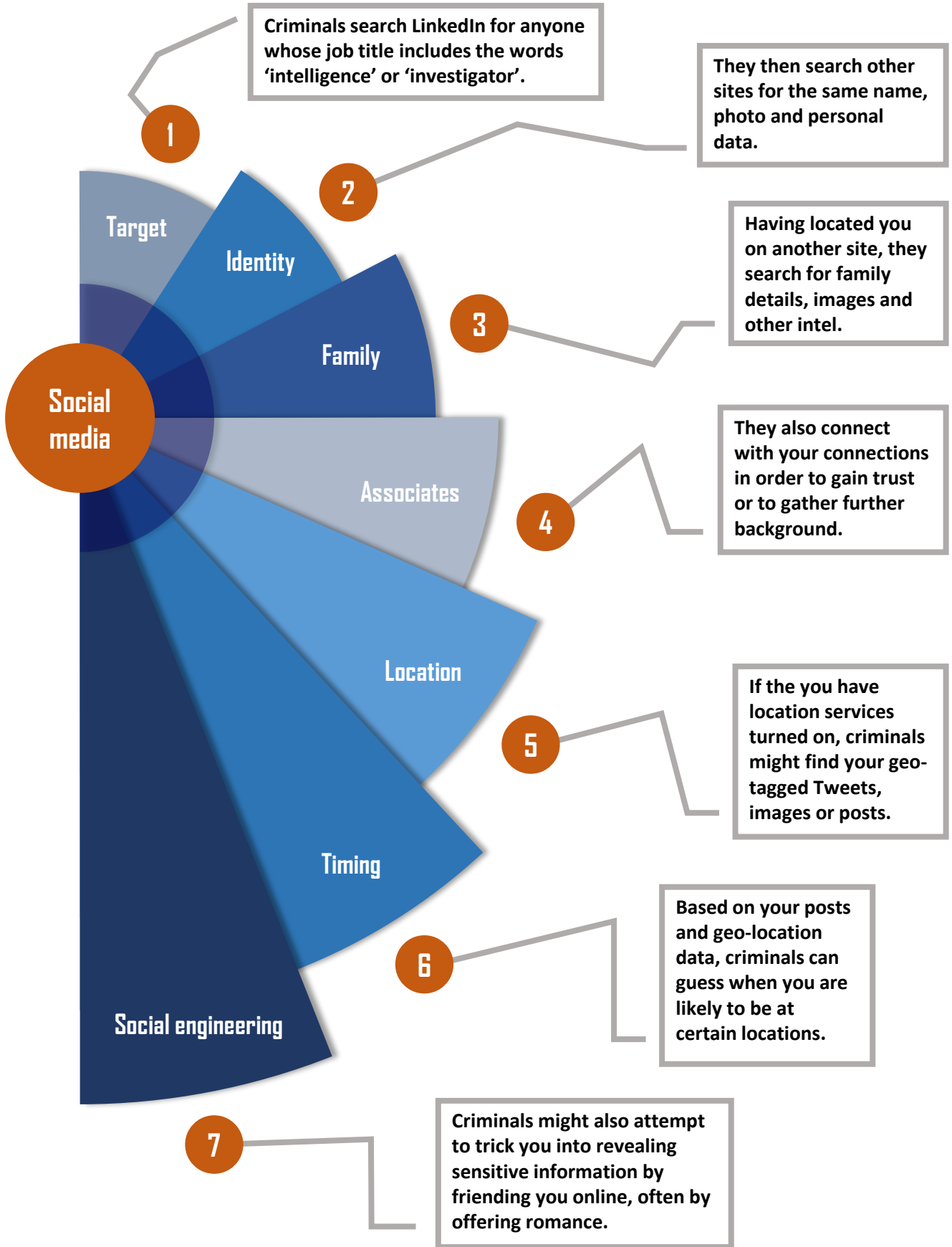
Insecure network connections, such as some public WiFi services, can expose you to interception.

'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.

General account settings

1 First click here...

2 ...then click here...

3

- Select the user name that other users will see.
- Assign an email address – not your work email!
- Change your password frequently.
- **Note**; creating a fake account is a breach of Facebook's T&Cs

4

- Set 'Language' to 'US English' to exploit all FB search tools

Security: access & edit

Click here to access Security

1

2

Then click to edit each setting

Security Settings		
Login Alerts	Get an alert when anyone logs into your account from a new device or browser.	Edit
Login Approvals	Use your phone as an extra layer of security to keep other people from logging into your account.	Edit
Code Generator	Use your Facebook app to get security codes when you need them.	Edit
App Passwords	Use special passwords to log into your apps instead of using your Facebook password or Login Approvals codes.	Edit
Trusted Contacts	Pick friends you can call to help you get back into your account if you get locked out.	Edit
Your Browsers and Apps	Review which browsers you saved as ones you often use.	Edit
Where You're Logged In	Review and manage where you're currently logged into Facebook.	Edit
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



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. Check before making changes.

Security: Login alerts

Security Settings

Login Alerts

Get an alert when anyone logs into your account from a new device or browser.

Notifications

- Get notifications
- Don't get notifications

Email

- Email login alerts to (your email address will appear here)
- Don't get email alerts

Text messages

- Text login alerts to (your mobile number will appear here, if assigned)
- Don't get text alerts

Save Changes

Cancel

Get notified if someone else logs into your account from a new device or browser.

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

Where You're Logged In Current Session [End All Activity](#)

Location Unknown
Device Type Firefox on Windows 7

If you notice any unfamiliar devices or locations, click 'End Activity' to end the session.

Desktop (1) ▾

Last Accessed	August 7 at 10:43am	End Activity
Location	Amsterdam, Netherlands (Approximate)	
Device Type	Firefox on Windows 8	

Facebook for iPhone (1) ▲

Messenger (2) ▲

Facebook for iPad (1) ▲

1

Review all sessions that Facebook regards as active.

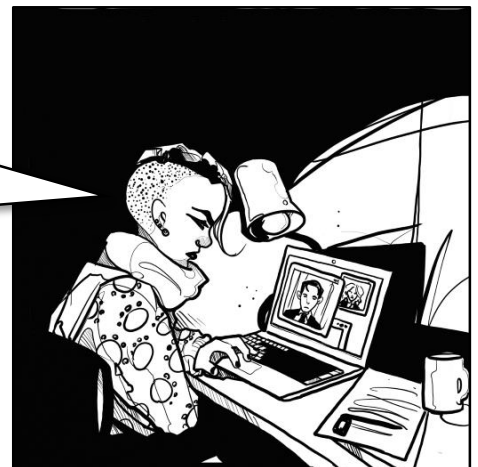
3

Check your active mobile device and Messenger sessions as well.

2

Click to end any active sessions

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

Deactivate Your Account

Deactivating your account will disable your profile and remove your name and photo from most things you've shared on Facebook. Some information may still be visible to others, such as your name in their friends list and messages you sent. [Learn more.](#)

Deactivate your account.

Close

*Click to **temporarily** deactivate your account if you need to do so.*

*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 https://www.facebook.com/help/delete_account*

Privacy

1

Make sure only your friends can see what you have posted.

Privacy Settings and Tools			
Who can see my stuff?	Who can see your future posts?	Friends	Edit
	Review all your posts and things you're tagged in		Use Activity Log
	Limit the audience for posts you've shared with friends of friends or Public?		Limit Past Posts
Who can contact me?	Who can send you friend requests?	Friends of Friends	Edit
Who can look me up?	Who can look you up using the email address you provided?	Friends	Edit
	Who can look you up using the phone number you provided?	Friends	Edit
	Do you want search engines outside of Facebook to link to your profile?	No	Edit

2

Limit who can contact you.

3

Limit who can search for you and how.

- Timeline
- About**
- Friends** 456
- Photos
- More ▼



Sites may revert your settings to the defaults (which are often less than secure) when they perform updates. Check your settings regularly!

Timeline & Tagging

1

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

Timeline and Tagging Settings			
Who can add things to my timeline?	Who can post on your timeline?	Only Me	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
	Who can see posts you've been tagged in on your timeline?	Only Me	Edit
	Who can see what others post on your timeline?	Only Me	Edit
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
	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

2

Limit who can see your timeline.

3

Review and manage tags posted by others that mention you.

Timeline	About	Friends 456	Photos	More ▼
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Social Media settings and options change all the time. Please check with the issuer (DCGFutures@met.police.uk) for the latest version of this guide.

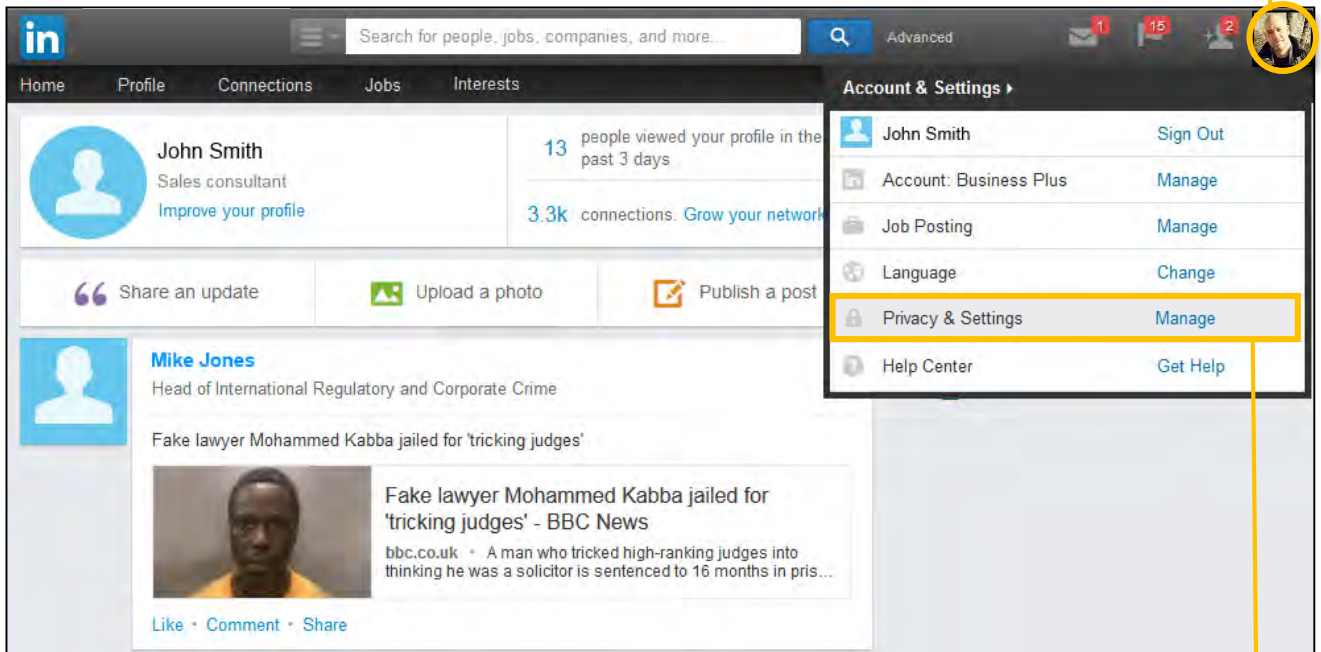
Secure LinkedIn



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

Privacy & settings

1 First hover your mouse **here...**



2 ...then click here...

Security: Access & edit

1 Set a strong password & change it regularly

2 Edit your email address - no work email

3 Avoid using a phone number

The screenshot shows the LinkedIn 'Account' settings page, specifically the 'Basics' section. The page has a navigation bar with 'Account', 'Privacy', and 'Communications'. The 'Basics' section includes the following settings:

- Email addresses:** Add or remove email addresses on your account. 2 email addresses. [Change](#)
- Phone numbers:** Add a phone number in case you have trouble signing in. 0 phone numbers. [Change](#)
- Change password:** Choose a unique password to protect your account. Last changed: September 30, 2015. [Change](#)
- Language:** Select the language you use on LinkedIn. English. [Change](#)
- Name, location, and industry:** Choose how your name and other profile fields appear to other members. [Change](#)

Security: Active sessions

1

Review all sessions that LinkedIn regards as current.

2

Click to end any active sessions

The screenshot shows the LinkedIn 'Account' settings page, specifically the 'Active sessions' section. The page has a navigation bar with 'Account', 'Privacy', and 'Communications'. The 'Active sessions' section displays a table of active sessions:

Last accessed	Details	
5 days ago	United Kingdom (Approximate location) LinkedIn on iOS	Sign out Details
2 months ago	Salford, Salford, United Kingdom (Approximate location) Chrome on Windows	Sign out Details
2 months ago	Salford, Salford, United Kingdom (Approximate location) Chrome on Windows	Sign out Details

A password prompt is visible in the bottom right corner, asking the user to enter their password to end the session. The prompt includes a password input field and buttons for 'End session' and 'Forgot password'.

Security: Profile photo & visibility

The screenshot shows the LinkedIn Privacy settings page. At the top, there are three tabs: 'Account' (selected), 'Privacy', and 'Communications'. Below the tabs, there are three main sections: 'Basics', 'Third parties', and 'Subscriptions'. The 'Third parties' section is expanded to show 'Showing profile photos'. The text reads: 'Showing profile photos' with a 'Close' link. Below that, it says 'Choose whether to show or hide profile photos of other members' with a 'Connections' link. Underneath, it says 'Select whose photos you would like to see.' and there is a dropdown menu currently set to 'Your connections'.

Restrict who can see your photo by selecting 'Your connections'

Security: Archive of your data

Getting an archive of your data

[Change](#)

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](#).



[Request archive](#)

Backup your data regularly, using the archive feature.

Security: Profile viewing options

The screenshot shows the LinkedIn Privacy settings page. The 'Profile viewing options' section is highlighted with a blue border. It contains the following text and options:

- Profile viewing options** (Close)
- Choose whether you're visible or viewing in private mode (Private mode)
- Select what others see when you've viewed their profile
- Your name and headline**
 - OSINT Expert (Internet Investigations) London, Greater London, United Kingdom | Writing and Editing
- Private profile characteristics**
 - Author / Publisher at Freelance Writer and Blogger
- Private mode**
 - Anonymous LinkedIn Member

Select the 3rd option to be totally anonymous, then click 'Save changes'

Note: if you do select this option, you will not see the details of anyone who views your profile...

Security: Sharing profile edits

The screenshot shows the LinkedIn Privacy settings page. The 'Profile privacy' section is highlighted with a blue border. It contains the following text and options:

- Profile privacy**
- Edit your public profile** (Change)
 - Choose how your profile appears in search engines
- Who can see your connections** (Change)
 - Choose who can see your list of connections (Only you)
- How You Rank** (Change)
 - Choose whether or not to be included in this feature (No)
- Viewers of this profile also viewed** (Change)
 - Choose whether or not this feature appears when people view your profile (No)
- Sharing profile edits** (Change)
 - Choose whether your network is notified about profile changes (No)

1

To prevent your connections viewing your full list of contacts, select 'Only you'

2

Based on your role choose either 'Yes' or 'No' to Sharing your profile edits.

Security: Hiding your public profile

Account Privacy Communications

Profile privacy

Blocking and hiding

Data privacy and advertising

Security

Profile privacy

Edit your public profile Change
Choose how your profile appears in search engines

Who can see your connections Change
Choose who can see your list of connections Only you

How You Rank Change
Choose whether or not to be included in this feature No

Viewers of this profile also viewed Change
Choose whether or not this feature appears when people view your profile No

Sharing profile edits Change
Choose whether your network is notified about profile changes No

Profile viewing options Change
Choose whether you're able to be viewed by the public

1

Return to **Privacy** and choose the **Profile Privacy** tab. Then click **Profile viewing options**.

2

Hide the access to your profile by selecting 'Make my public profile visible to no one'

John Smith 500+ connections

London, Greater London, United Kingdom | Writing and Editing

Your public profile URL

Enhance your personal brand by creating a custom URL for your LinkedIn public profile.

www.linkedin.com/in/John_Smith

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

Make my public profile visible to everyone

Basics

Picture

Headline

Websites

Summary

Current Positions

Details

Past Positions

Details

Volunteer Experiences & Causes

Courses

Certifications

Skills

Languages

Recommendations

Groups

Save

Security: View your applications

The screenshot shows the LinkedIn 'Account' settings page. The 'Third parties' section is highlighted, showing three categories: 'Third party apps' (3 connected apps), 'Twitter settings' (Not connected), and 'WeChat settings' (Not connected). Each category has a 'Change' link.

1 In 'Account' 'Third Party' section, you can view the apps you have authorised.

2 You will see a list of the **external** apps that currently have permission to access your LinkedIn account. These apps can see your feed, your connections and your contact details.

The screenshot shows the 'Third parties' section in detail. It includes a 'Close' button, a title 'Third party apps', and a description: 'View apps you've authorized and manage data sharing' (3 connected apps). Below is a list of 'Third Party apps you've added':

App Name	Action
LinkedIn Help Center - Customer Portal	Remove
LinkedIn Mobile	Remove
Rapportive	Remove

3 Select those apps you did not authorize or wish to block and then click 'Remove'.

Security: Data sharing with 3rd party apps

Data privacy and advertising

Suggesting you as a connection based on your email address

Choose who can see you as a suggested connection if they have your email address

Change

Nobody

Suggesting you as a connection based on your phone number

Choose who can see you as a suggested connection if they have your phone number

Change

Nobody

Representing your organization

Choose if we can show your profile information on your employer's pages

Change

No

Sharing data with third parties

Choose if we can share your basic profile data with third parties

Change

No

Advertising preferences

Choose whether LinkedIn can use cookies to personalize ads

Change

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 (DCGFutures@met.police.uk) for the latest version of this guide.



Security: Closing your account

The screenshot shows the LinkedIn account settings page. At the top, there are three tabs: '@ Account', 'Privacy', and 'Communications'. Below the tabs, there are three main sections: 'Basics', 'Third parties', and 'Subscriptions'. The 'Subscriptions' section is highlighted with a yellow box. Under 'Subscriptions', there are two options: 'Try Premium for free' and 'Closing your account'. The 'Closing your account' option is highlighted with a yellow box and has a 'Change' link next to it. A yellow arrow points from the 'Change' link to the text box below.

*Always close your account **when it is no longer needed**. This prevents it from being hacked and misused.*

**ONLY WHEN NO
LONGER NEEDED**

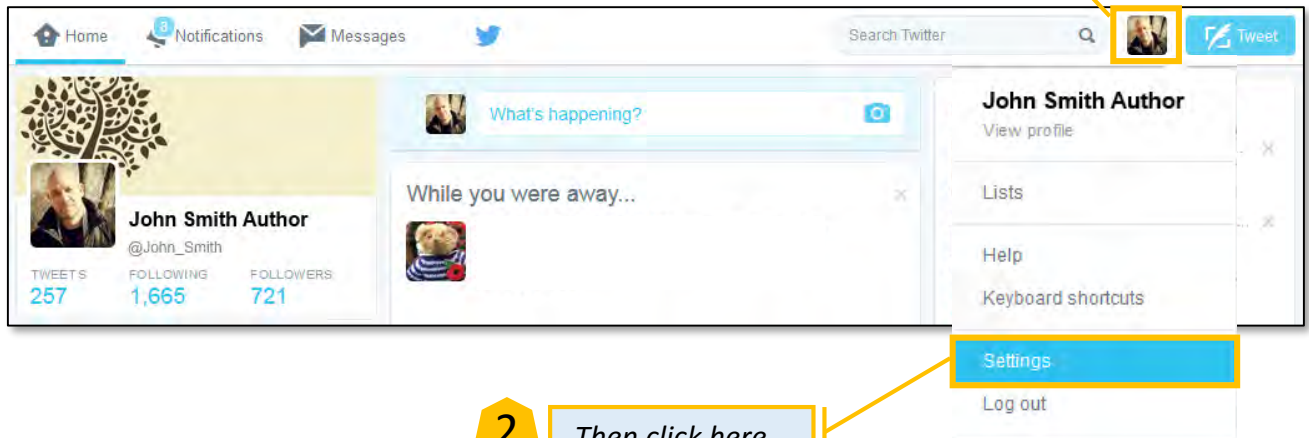
Secure Twitter



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

To access Settings

1 First click here...



2 Then click here...



That woman tweeted my whole life's story to the whole world!

Unless you restrict your posts, Twitter is a broadcast medium; once you Tweet it you've set it free for the whole wide world to see!

Account settings

1

You can edit the user name visible to other users

The screenshot shows the Twitter account settings page for a user named John Smith Author (@John_Smith). The page is divided into two main sections: a left sidebar with navigation options and a main content area for account settings. The left sidebar includes 'Account', 'Security and privacy', 'Password', 'Cards and shipping', and 'Order history', each with a right-pointing arrow. The main content area is titled 'Account' and includes the subtitle 'Change your basic account and language settings.' Below this, there are four settings: 'Username' (js12345), 'Email' (js12345@hotmail.com), 'Language' (English), and 'Time zone' ((GMT+01:00) Casablanca). Two yellow callout boxes with arrows point to the 'Username' and 'Email' fields. The first callout box, labeled '1', points to the 'Username' field and contains the text 'You can edit the user name visible to other users'. The second callout box, labeled '2', points to the 'Email' field and contains the text 'Do not use a work email address. Edit as necessary.'

2

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

Security

1

Next click here...

2

Optionally, you can use a mobile number to validate each login. Only use a number you KNOW you will have access to over the life of the Twitter account!

Security and privacy
Change your security and privacy settings

Security

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.
- 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](#)

You will need to [generate a temporary password](#) to log in to your Twitter account on other devices and apps. [Learn more](#)

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 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. *

Log in with code

- 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](#)
- 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 will not be able to log in by simply receiving a login code (via SMS or email). [Learn more](#)

3

Make sure that others cannot easily change your password and take over your account.

4

Enhance your login security by always requiring a password to login.

*** 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.

Privacy

Privacy

- Photo tagging
- Allow anyone to tag me in photos
 - Only allow people I follow to tag me in photos
 - Do not allow anyone to tag me in photos

Optional

- Tweet privacy
- Protect my Tweets

If selected, only those you approve will receive your Tweets. Your future Tweets will not be available publicly. Tweets posted previously may still be publicly visible in some places. [Learn more](#).

Off

- Tweet location
- Add a location to my Tweets

When you tweet with a location, Twitter stores that location. You can switch location on/off before each Tweet. [Learn more](#)

Click this

Delete all location information

This will delete all location information from past Tweets. This may take up to 30 minutes.

- Discoverability
- Let others find me by my email address
 - Let others find me by my phone number

Off

- Address book
- Manage your contacts**

Review

Contacts you've uploaded to Twitter from your address book.

- Personalization

The feature to tailor Twitter based on your recent website visits is not available to you.

Do Not Track ✓

While you have Do Not Track turned on, your visits to sites that feature Twitter are not available to personalize your experience.

Off

- Promoted content
- Tailor ads based on information shared by ad partners.

This lets Twitter display ads about things you've already shown interest in. [Learn more](#) about how this works and your additional privacy controls.

Do Not Track ✓

While you have Do Not Track turned on, Twitter will not receive browser-related information from our ads partners for tailoring ads.

- Twitter for teams
- Allow anyone to add me to their team
 - Only allow people I follow to add me to their team
 - Do not allow anyone to add me to their team

Organizations can invite anyone to Tweet from their account using the teams feature in TweetDeck. [Learn more](#).

Off

- Direct Messages
- Receive Direct Messages from anyone

If selected, you will be able to receive messages from any Twitter user even if you do not follow them.

1

Apply the Privacy settings as shown...

Password management

Now click here...

1

2

Choose a strong password* & change it frequently.

The screenshot shows the Twitter account settings page. On the left is a navigation menu with options: Account, Security and privacy, Password, Cards and shipping, Order history, Mobile, Email notifications, Web notifications, and Find friends. The 'Password' option is highlighted with a yellow box. On the right, the 'Change password' form is visible. It includes fields for 'Current password', 'New password', and 'Verify password'. The 'New password' field contains the text 'sTr0ngP@s\$wor6'. A red warning message 'DO NOT USE THIS PASSWORD!' is displayed to the right of the 'New password' field. A 'Save changes' button is at the bottom of the form. A yellow callout box with the number '1' points to the 'Password' menu item, and another yellow callout box with the number '2' points to the 'New password' field.

* 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 >
- Password >
- Cards and shipping >
- Order history >
- Mobile >
- Email notifications >**
- Web notifications * >

1

Optional... not recommended.

Email notifications

Control when and how often Twitter sends emails to you. [Learn more.](#)

Email is enabled.

Turn off

Activity related to you and your Tweets

- Email me when
- My Tweets are marked as favorites
Tailored for you ▾
 - Tweets I'm mentioned in are marked as favorites
Tailored for you ▾
 - My Tweets are retweeted
Tailored for you ▾
 - Tweets I'm mentioned in are retweeted
Tailored for you ▾
 - My Tweets get a reply or I'm mentioned in a Tweet
Tailored for you ▾
 - I'm followed by someone new
 - I'm sent a direct message
 - Someone emails a Tweet to me
 - Someone from my address book joins Twitter

Activity related to your Retweets

- Email me when
- My Retweets are marked as favorites
Tailored for you ▾
 - My Retweets are retweeted
Tailored for you ▾

2

You can opt to receive alerts about all retweets, mentions, follows, etc. (**recommended**).

* The **Web notifications** page provides similar options, but with fewer choices.

Blocked accounts

Blocked accounts >

- Account >
- Security and privacy >
- Blocked accounts >**
- Design >
- Apps >

1

You can export a list of blocked accounts, or import a list of those you want to block.

Accounts you're blocking

You've blocked these accounts. You will not see their Tweets in your timeline. Additionally, blocked accounts cannot follow you or view your profile while logged in to Twitter. [Learn more about blocking.](#)

All / Imported

	Silly Man 1 @sillyman1		Blocked
	Silly Man 2 @sillyman2	<ul style="list-style-type: none">UnblockReport	Blocked
	Silly Man 3 @sillyman3		Blocked

Advanced options ▾
Export your list
Import a list

2

You can also unblock a blocked account, or report it to Twitter.

Manage your Apps

Apps >

- Design >
- Apps >**
- Widgets >
- Your Twitter data >

1

Revoke the access of any unwanted or unknown Apps.

2
If you believe that an App has obtained access without your consent, you can report it to Twitter...

Applications

These are the apps that can access your Twitter account. [Learn more.](#)
You will need to generate a temporary password to log in to your Twitter account on other devices and apps. [Learn more.](#)

	Cloze by Cloze Inc. Relationship Management, Inbox, and Contacts in One App Permissions: read, write, and direct messages Approved: Friday, December 13, 2013 at 3:59:57 AM	Undo Revoke Access
		Report application

Twitter Data

Widgets >

Your Twitter data >

1

Check your Twitter history. If you spot anything that seriously concerns you, consider changing your password or even deleting your account.

2

You can download and backup your entire Tweet history for evidential purposes.

Your Twitter data

A snapshot of your account information.

Account history

Account creation **Sep 18, 2011 at 6:58 AM**

Username **@js12345** [Edit](#)

Email **js12345@hotmail.com** [Edit](#)

Phone **+123456789000** [Edit](#)
 Activation date: Aug 11, 2013
 Country: United Kingdom
 Carrier: vodafone_uk

Device history

These are the devices you have used to access your Twitter account.

Phones  **Twitter for iPhone**
 Activated on May 19, 2015

Login history

If you see any suspicious activity from an app, go to the [Apps tab](#) to revoke its access. In some cases the IP location may differ from your physical location. [Learn more](#)

APP	DATE & TIME	IP LOCATION
Twitter.com	Aug 14, 2015 12:52 PM	81.156.37.108 United Kingdom
Twitter for iPhone	Aug 11, 2015 7:56 PM	81.156.37.108 United Kingdom
Twitter.com	Aug 6, 2015 1:44 PM	217.195.248.66 Netherlands

Other data

[Contacts](#) Manage the contacts imported from your address book.

[Twitter Archive](#) Download your entire Tweet history.

[Connected apps](#) Review the apps that you have given access to your Twitter account.

[Muted accounts](#) Review the accounts you've muted.

[Blocked accounts](#) Review the accounts you've blocked.

Deactivation

Account	>
Security and privacy	>
Password	>
Cards and shipping	>
Order history	>
Mobile	
Email notifications	
Web notifications	

Account

Change your basic account and language settings.

Username

https://twitter.com/MarkJ_Books

Email

Email will not be publicly displayed. [Learn more.](#)

Language

Interested in helping translate Twitter? Check out the [Translation Center](#).

Time zone

Content

Country

Select your country. This setting is saved to this browser.

Tweet media Do not inform me before showing media that may be sensitive

You will see all photos or videos even if they contain sensitive media.

Mark media I tweet as containing material that may be sensitive

Please check this box if your Tweets contain sensitive media so that users can be informed prior to viewing.

Video Tweets Video autoplay

Videos will automatically play across the Twitter website.

Your Twitter archive

You can request a file containing your information, starting with your first Tweet. A link will be emailed to you when the file is ready to be downloaded.

**DO NOT CLICK
UNLESS SURE!**

1

Click here and carefully read the text on the page that appears.

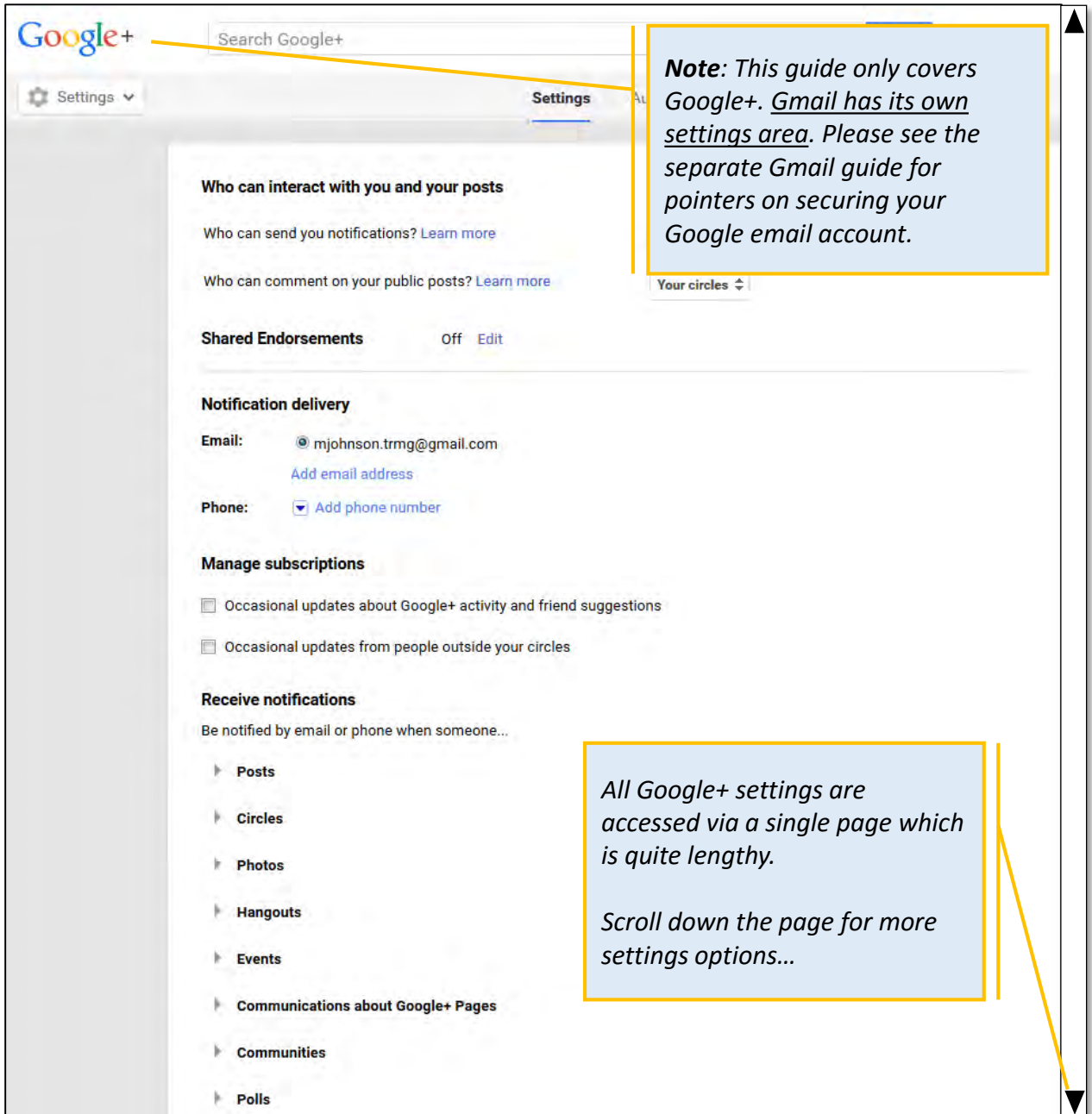
At the time of writing, deactivated accounts remain in suspense for 30 days before Twitter permanently deletes them.

Secure Google+



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

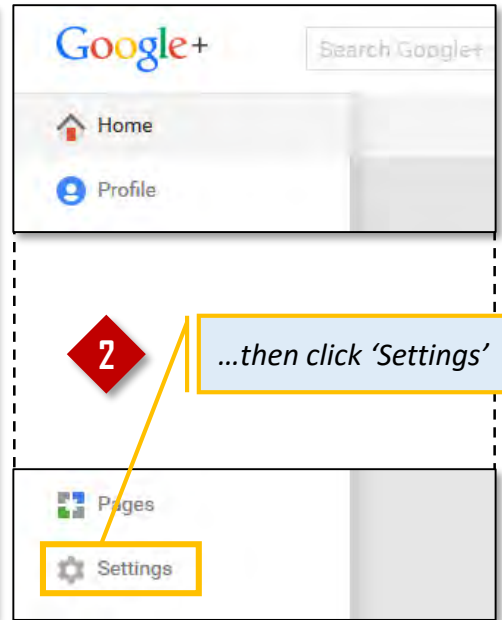
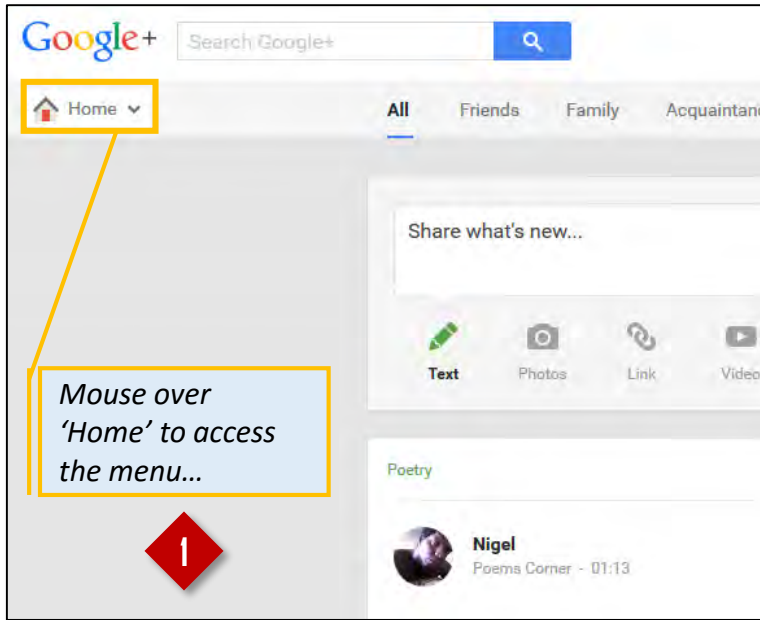
Google+ 'Settings'

A screenshot of the Google+ Settings page. The page is titled 'Settings' and has a search bar at the top. The settings are organized into several sections: 'Who can interact with you and your posts', 'Shared Endorsements', 'Notification delivery', 'Manage subscriptions', and 'Receive notifications'. The 'Who can interact with you and your posts' section includes options for who can send notifications and who can comment on public posts. The 'Notification delivery' section shows the user's email address (mjohanson.trmg@gmail.com) and a phone number field. The 'Manage subscriptions' section has two checkboxes for updates. The 'Receive notifications' section has a dropdown menu for notification types, including Posts, Circles, Photos, Hangouts, Events, Communications about Google+ Pages, Communities, and Polls. A yellow box highlights the top right area of the page, and another yellow box highlights the bottom right area of the page. A yellow arrow points from the top right box to the bottom right box.

Note: This guide only covers Google+. Gmail has its own settings area. Please see the separate Gmail guide for pointers on securing your Google email account.

All Google+ settings are accessed via a single page which is quite lengthy.
Scroll down the page for more settings options...

To access 'Settings'



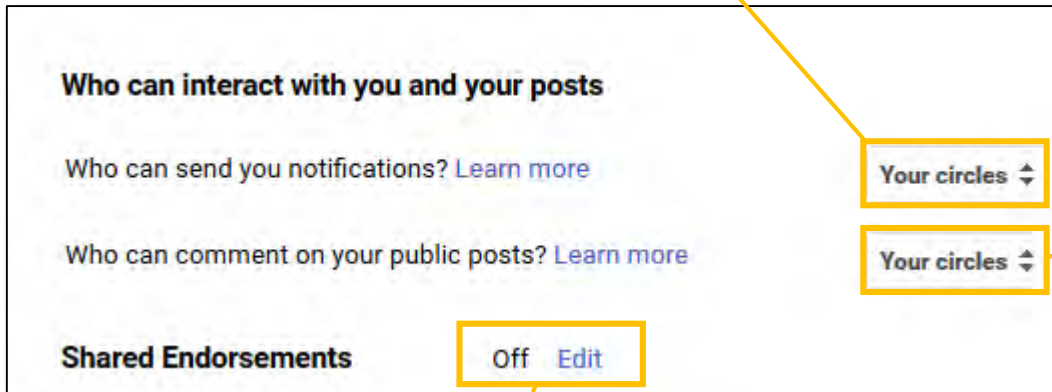
Posts and Endorsements



Restrict who can send you notifications to 'Your circles' or 'Only you'.



Restrict who can comment on your posts.



Turn Shared Endorsements off to avoid being mentioned in Google Ads.



Notifications and Subscriptions

1

Toggle email notifications On or Off ('On' is recommended). Pick your email address with care.

2

DO NOT add a phone number unless essential.

3

Turn off subscriptions.

4

*Set your notification options to suit your preferences, but **DO** consider receiving photo tagging notifications, as these can be useful personal security warnings.*

The screenshot shows the 'Notification delivery' section with an email field containing 'js123456@gmail.com' and a phone field with a dropdown menu. Below is the 'Manage subscriptions' section with two unchecked checkboxes. The 'Receive notifications' section is partially visible, showing categories like Posts, Circles, Photos, and Hangouts. A list of notification types is shown on the right with checkboxes, including 'Email' which is checked. Annotations with numbered callouts (1-4) point to specific elements: 1 points to the email field, 2 points to the phone field, 3 points to the subscription checkboxes, and 4 points to the notification options list.

Apps & activities

1

Click to manage your apps and your activities log.

Apps & activities

Manage your apps and Activity Log, including who can see your Google and third-party activities.

Manage apps & activities

This is the most secure scenario.

2

Apps Google Log

Manage apps

You've signed in to these apps with Google. You control who can see your signed-in apps and activities on Google services. [Learn more](#)

You have not connected with any apps using Google+ Sign-In. [Learn more](#)

3

This setting prevents others from identifying posts you have commented on.

Apps Google Log

Who can see your "+1s on posts" activity?

- Extended circles
- Public
- Your circles
- Only you
- Custom

Friends find cool people and posts. People you select future Google+ activity. You can view your past ways, activity updates from private posts will only be shared with. [Learn more](#)

Cancel

Save

Customise "Your circles"

Click here. 1

Your circles

When you share posts, photos, profile data and other things with "Your circles", you're sharing to all of your circle ones you're just following.

Customise

Accessibility

Change the pr

Photos and Vide

Show geo loca

Allow viewers

Don't feature n

Upload my ph

Storage used:

Buy more stor

to manage all

Google Drive

Customise "Your circles"

When you share posts, photos, profile data and other things with "Your circles", you're sharing with all of your circles, except the ones you're just following (they're unchecked in this list). [Learn more](#)

Choose who to include in "Your circles":

- Friends
- Family
- Acquaintances
- Following
- Book Reviewers
- Authors

Think carefully about how widely you want to share your posts, photos and profile data. 2

Cancel Save

1 Turn **OFF** automatic geolocation tagging and download permissions.

2 Turn **ON** to prevent Google from using your photos in ads.

Photos and Videos

- Show geo location by default on newly shared albums. You can change the setting for each album. [Learn more](#)
- Allow viewers to download my photos and videos.
- Don't feature my publicly shared Google+ photos as background images on Google products & services. [Learn more](#)
- Upload my photos at full size.

Profile

Profile

Show your Google+ communities posts on the Posts tab of your Google+ profile. [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 ▾

Help others discover my profile in search results. [Learn more](#)

Unticking this box prevents most search engines from indexing your profile. It does not prevent them from indexing any public posts or comments.

Show how many times your profile and content have been viewed.

*Consider turning all of these options off. Preventing search engine indexing should be set to **OFF**. [Read the small print!](#)*

Location Settings

Location Settings

Enable Location Sharing

Location Sharing allows you to share your current location with people you choose, from Location Reporting on your devices. People you share your location with can see your current location across Google products, including Google+ and Google Now. They can also see your places, such as home and work. [Learn more](#)

*Set Location Sharing to **OFF**.*

Disable Google

Disable Google+

[Delete your entire Google profile here.](#)

*Click to delete your Google+ profile. Note that **previously indexed search engine results will not be deleted.***

Cyber Cops Episode One

The Case of the Facebook Friends



Copyright: The Risk Management Group
January 2016



IT IS BURNING!

A CAR IS REPORTED ON FIRE IN A REMOTE LANE...

THE POLICE WILL TRACK THE OWNER...

THE CAR IS BADLY DAMAGED BUT THE NUMBER PLATE IS STILL LEGIBLE...



DIALLING 999!



THE FOLLOWING MORNING, 50 MILES AWAY, A PAIR OF WALKERS GET A TERRIBLE SHOCK!



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

PAUL SMITH



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



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.

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...

LOOK AT
THIS!

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...



LOOK. THEY'RE FACEBOOK FRIENDS TOO.

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

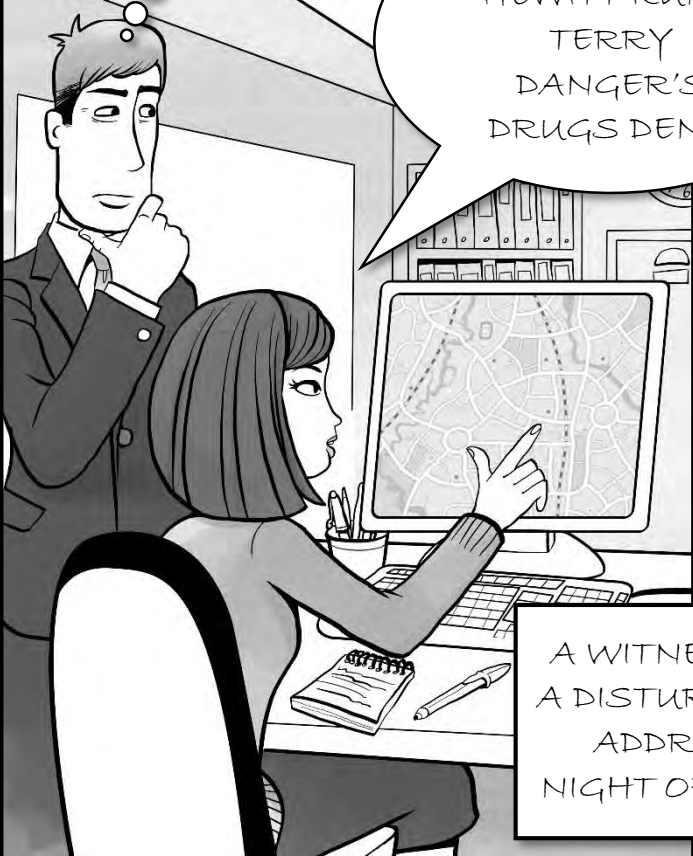


DANGER AND SMITH ALSO HAVE ANOTHER FACEBOOK FRIEND IN COMMON; ONE AMELIA HEWITT.



DID SMITH VISIT HER?

WE KNOW HEWITT RUNS TERRY DANGER'S DRUGS DEN...

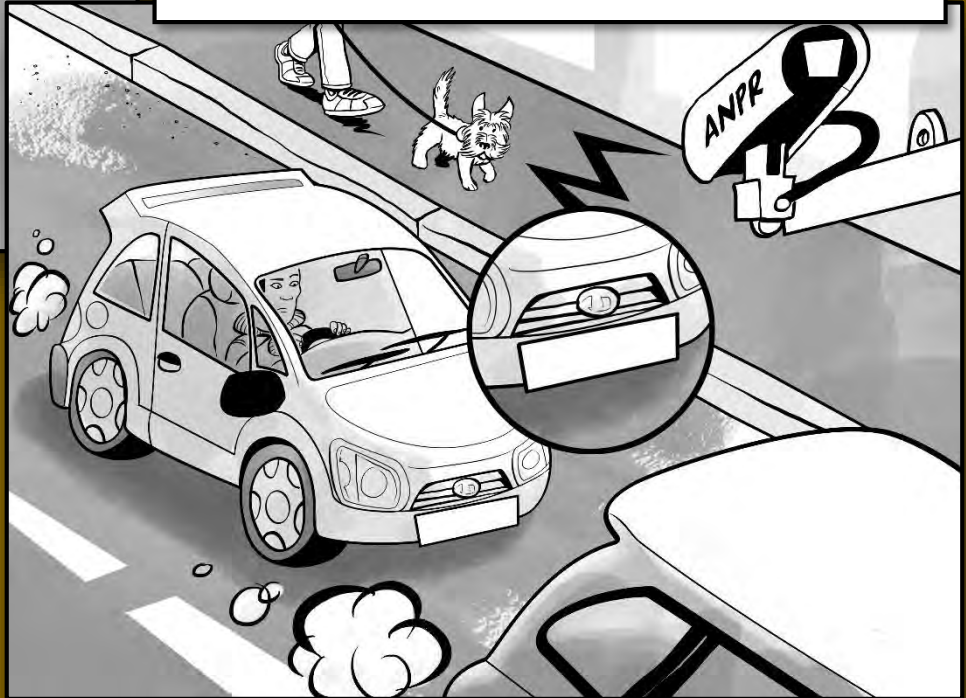


A WITNESS REPORTED A DISTURBANCE AT THE ADDRESS ON THE NIGHT OF THE MURDER.

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 TO THE DEN...



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



ARMED POLICE SWOOP ON THE DEN.

DANGER AND HEWITT ARE BOTH PRESENT AND ARE TAKEN IN.

DANGER IS SILENT, BUT HEWITT HAS A LOT TO SAY!



HEWITT DESCRIBES HOW SMITH CAME TO THE DEN. HE THREATENED TO REPORT DANGER TO THE COPS IF THE DEALER DIDN'T HAND OVER DRUGS SMITH HAD PAID FOR.



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'.



GOODBYE,
BOYO!

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

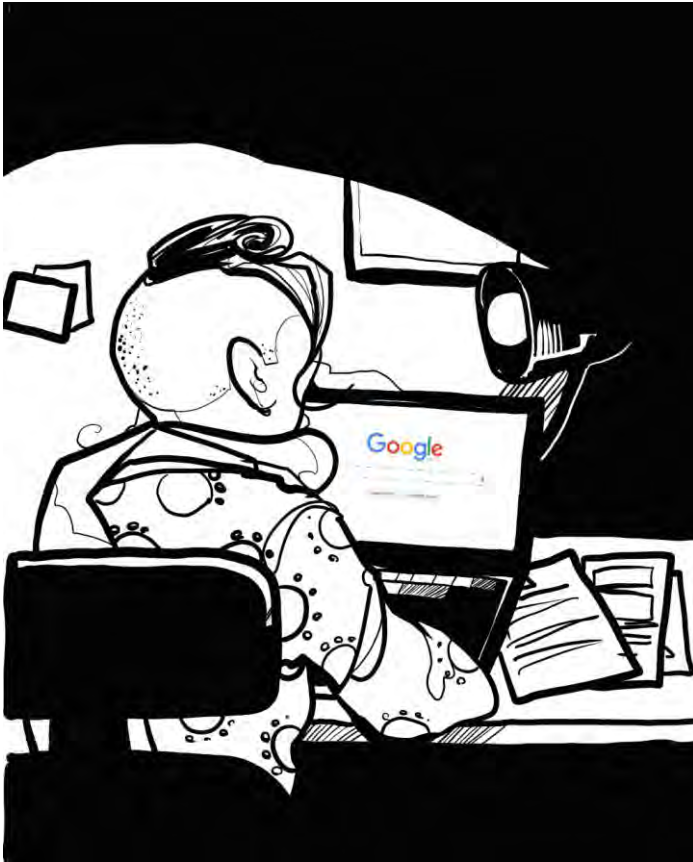
GOODBYE, MR
DANGER!

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



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.

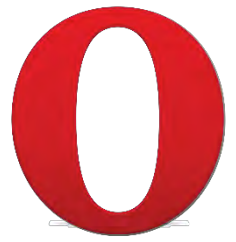


If you use the default browser settings on most browsers, all of your browsing activities may be logged on your device.

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

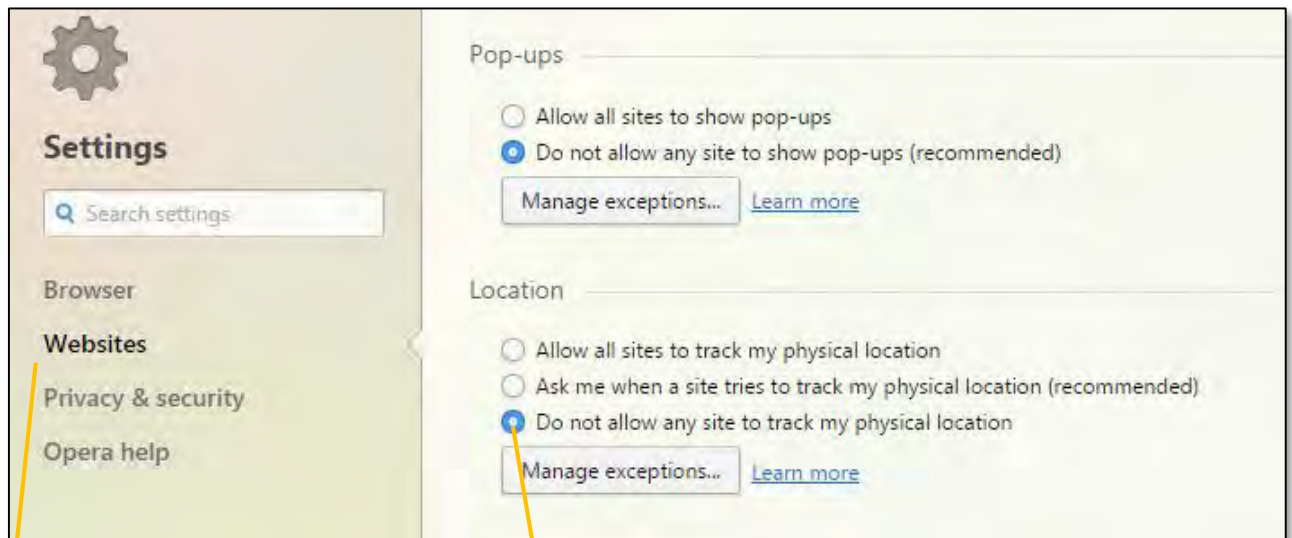


Note: all screenshots taken from the .com site. Mobile versions may have differing features.

Accessing Settings



Location tracking



Select 'Websites'...

1

Set to 'Do not allow' location tracking

2

Privacy & security

Select 'Privacy & security'...

1

Click Clear browsing data...

2

The screenshot shows the Opera browser settings interface. On the left is a 'Settings' sidebar with a search bar and categories: 'Browser', 'Websites', 'Privacy & security' (highlighted with a yellow box), and 'Opera help'. The main content area is titled 'Privacy' and contains a 'Clear browsing data...' button (highlighted with a yellow box) and a 'Learn more' link. Below this are several checkboxes for web services: 'Use a prediction service...', 'Predict network actions...', 'Help improve Opera...', 'Automatically send crash reports...', and 'Send a 'Do Not Track' request...' (which is checked). A section titled 'Want even more privacy?' features a shield icon and text about SurfEasy VPN. Below that is the 'Autofill' section with a checkbox for 'Enable auto-filling of forms on webpages' and a 'Manage Autofill settings' button. The 'Passwords' section is partially visible at the bottom.

Clear browsing data

Obliterate the following items from: the beginning of time

- Browsing history
- Download history
- Delete cookies and other site data
- Empty the cache
- Saved passwords
- Clear saved Autofill form data

Saved content settings and search engines will not be cleared and may reflect your browsing habits.

[Learn more](#)

Clear browsing data

Cancel

Decide what you want to clear and then click Clear browsing data

3

Privacy & security



Settings

Search settings

Browser

Websites

Privacy & security

Opera help

Privacy

Clear browsing data... [Learn 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



Want even more privacy?

Enhance your online experience and enjoy superior privacy, security, and freedom, even on public Wi-Fi. Learn more about [SurfEasy VPN](#). SurfEasy is an Opera Software company.



Autofill

- Enable auto-filling of forms on webpages

Manage Autofill settings

Passwords

- Offer to save passwords I enter on the web

Manage saved passwords

Deselect these options.

HTTPS/SSL

Manage certificates... [Learn more](#)



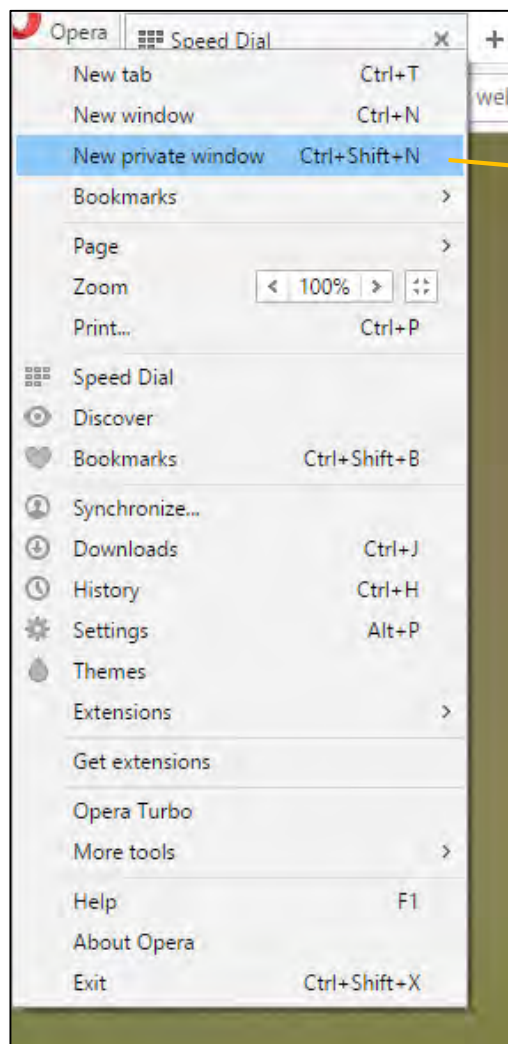
Cookies

- Allow local data to be set (recommended)
- Keep local data only until I quit my browser
- Block sites from setting any data
- Block third-party cookies and site data

Manage exceptions... All cookies and site data... [Learn more](#)

Select this option.

Private browsing



Click here.

By using a private window, or tab, you can browse without leaving any trace of the websites you visit.

When you close an Opera private tab, the following data is deleted:

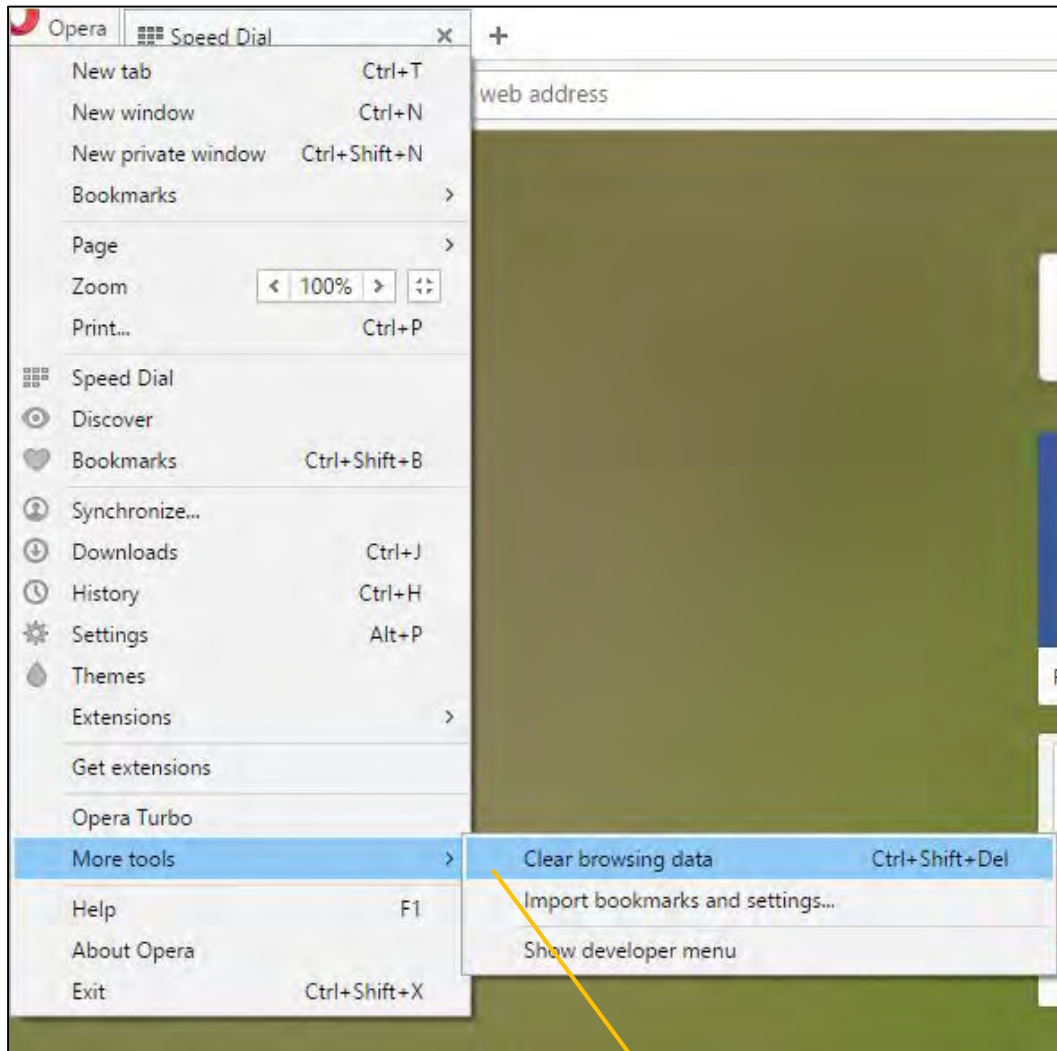
- browsing history
- items in cache
- cookies
- logins

A closed private tab or window cannot be recovered.



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

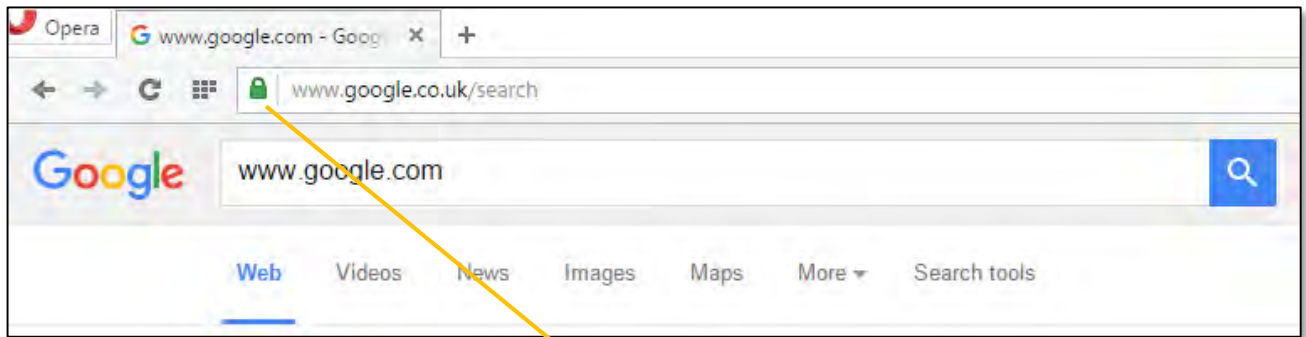
Clear browsing data shortcut



1

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

Site security badges



Site security badge.



Icon	Indicates...
	Accelerated connection
	Camera access
	Fraud or malware warning
	Local file
	Location access
	Opera page
	Secure connection
	Unprotected connection

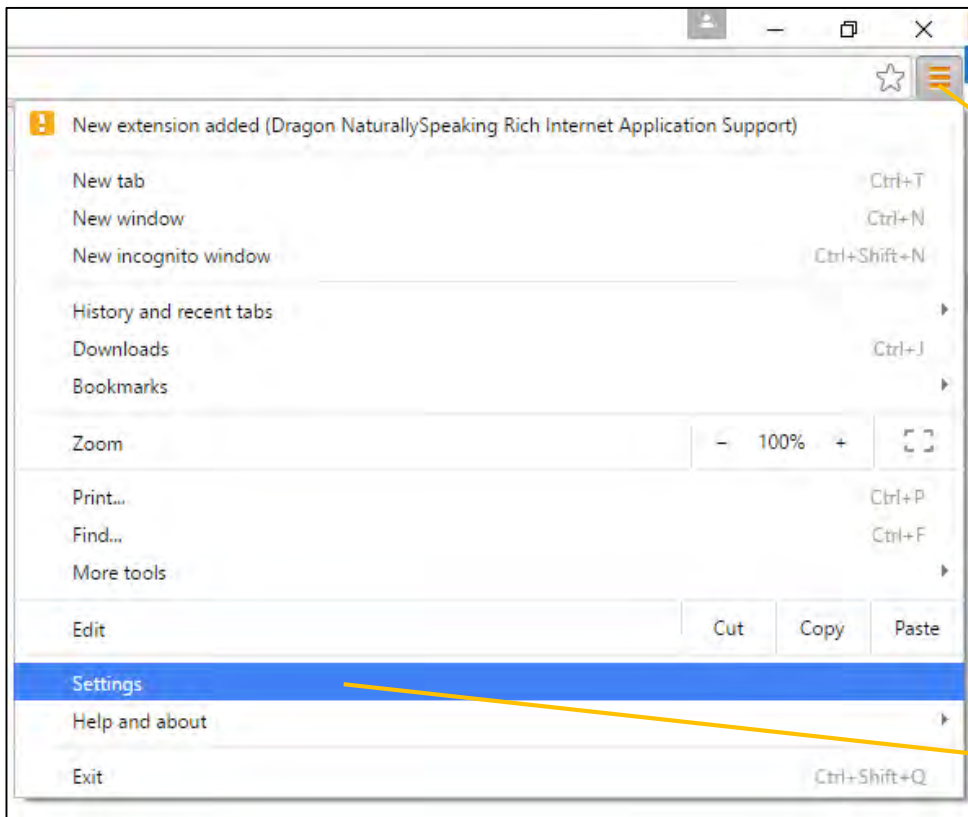
Take careful note of the site security badges displayed for each website you visit.



Secure Chrome



Accessing the Menu



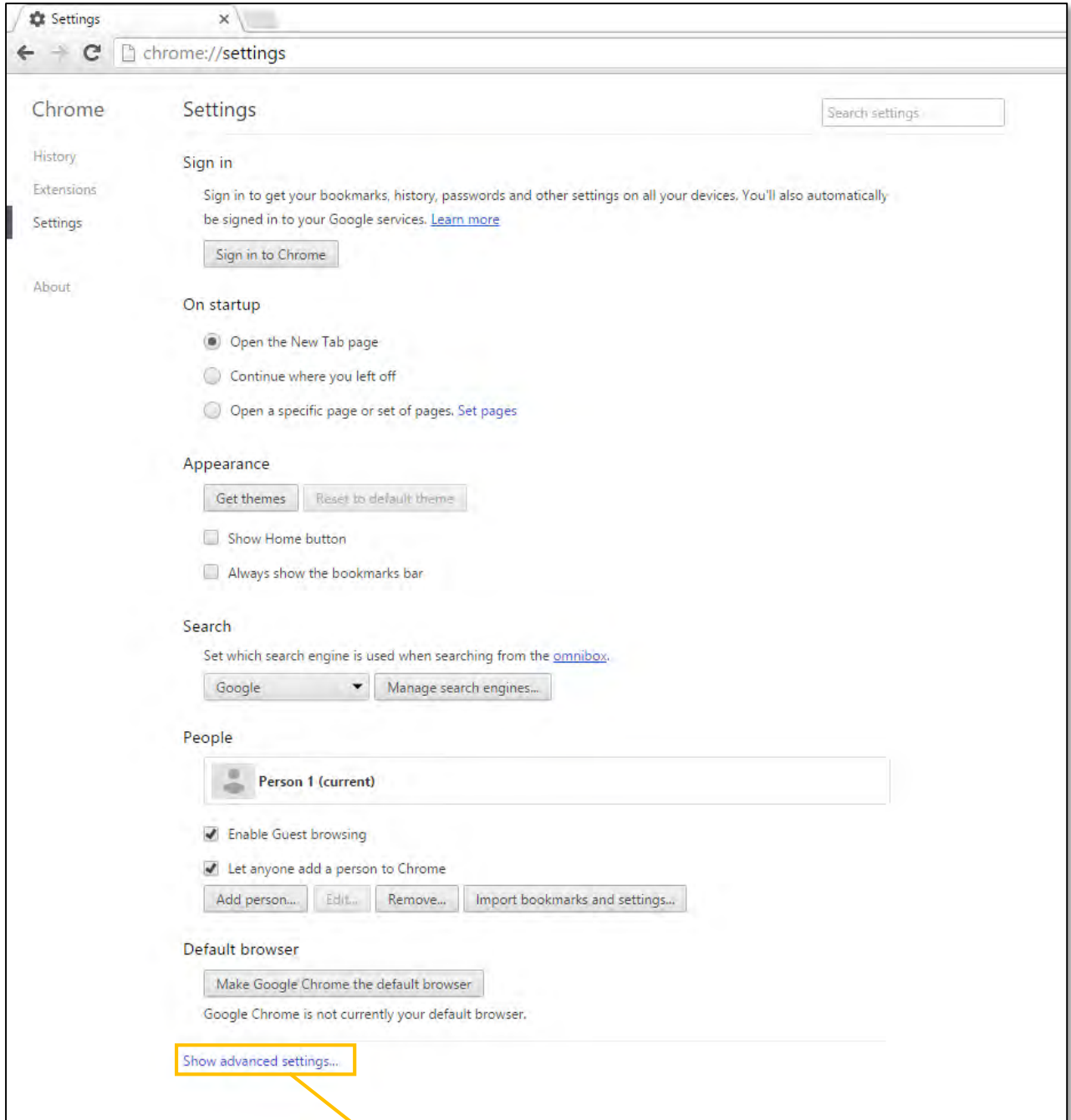
Click here to access the menu...

1

Then select 'Settings'

2

Accessing Advanced Settings



The screenshot shows the Chrome Settings page. The left sidebar contains the following menu items: Chrome, History, Extensions, Settings (highlighted), and About. The main content area is titled 'Settings' and includes a search bar. The sections visible are:

- Sign in:** Includes a 'Sign in to Chrome' button.
- On startup:** Includes radio buttons for 'Open the New Tab page' (selected), 'Continue where you left off', and 'Open a specific page or set of pages. Set pages'.
- Appearance:** Includes 'Get themes' and 'Reset to default theme' buttons, and checkboxes for 'Show Home button' and 'Always show the bookmarks bar'.
- Search:** Includes a dropdown menu set to 'Google' and a 'Manage search engines...' button.
- People:** Includes a profile card for 'Person 1 (current)', a checked 'Enable Guest browsing' checkbox, a checked 'Let anyone add a person to Chrome' checkbox, and buttons for 'Add person...', 'Edit...', 'Remove...', and 'Import bookmarks and settings...'.
- Default browser:** Includes a 'Make Google Chrome the default browser' button and the text 'Google Chrome is not currently your default browser.'

A yellow box highlights the 'Show advanced settings...' link at the bottom of the page.

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. [Learn more](#)

- 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.

1

Accessing Content Settings

Privacy

Content settings...

Clear browsing data...

Click to access Content settings

1

Google Chrome may use web services to improve your browsing experience. You may optionally disable these services. [Learn more](#)

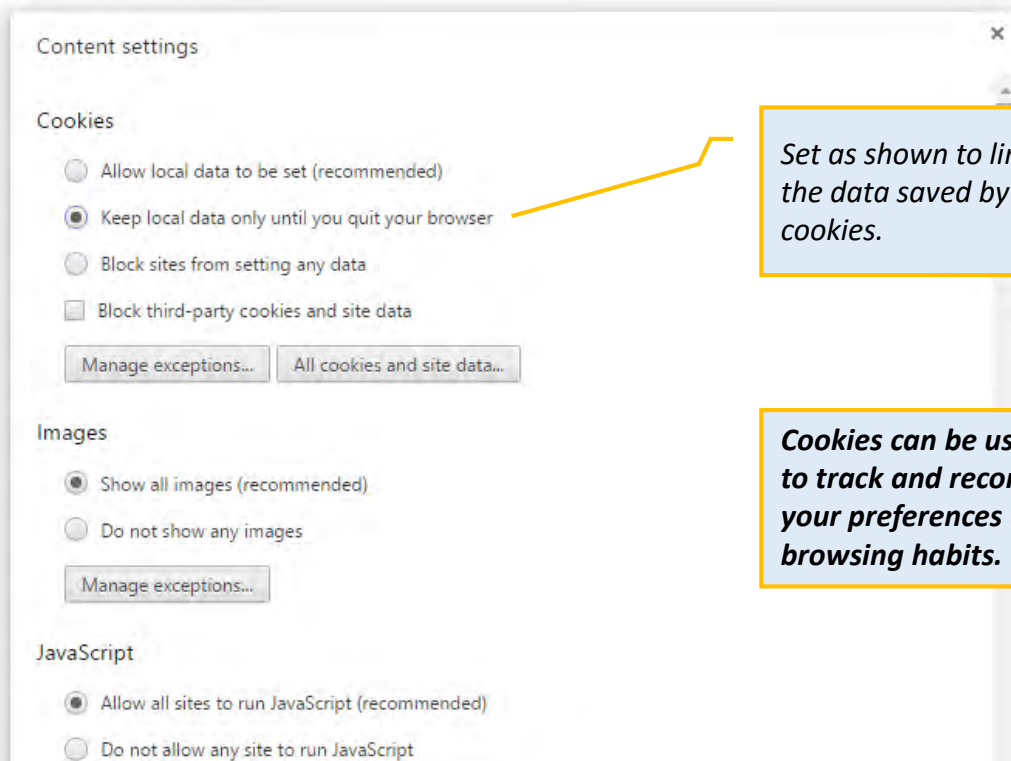
- Use a web service to help resolve navigation errors
- Use a prediction service to help complete searches and URLs typed in the address bar or the app launcher search box
- Prefetch resources to load pages more quickly
- Automatically report details of possible security incidents to Google
- Protect 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](#)



Content settings - Cookies



Set as shown to limit the data saved by cookies.



Cookies can be used to track and record your preferences and browsing habits.



Control location tracking

Content settings

Location

- Allow all sites to track your physical location
- Ask when a site tries to track your physical location (recommended)
- Do not allow any site to track your physical location

Manage exceptions...

Notifications

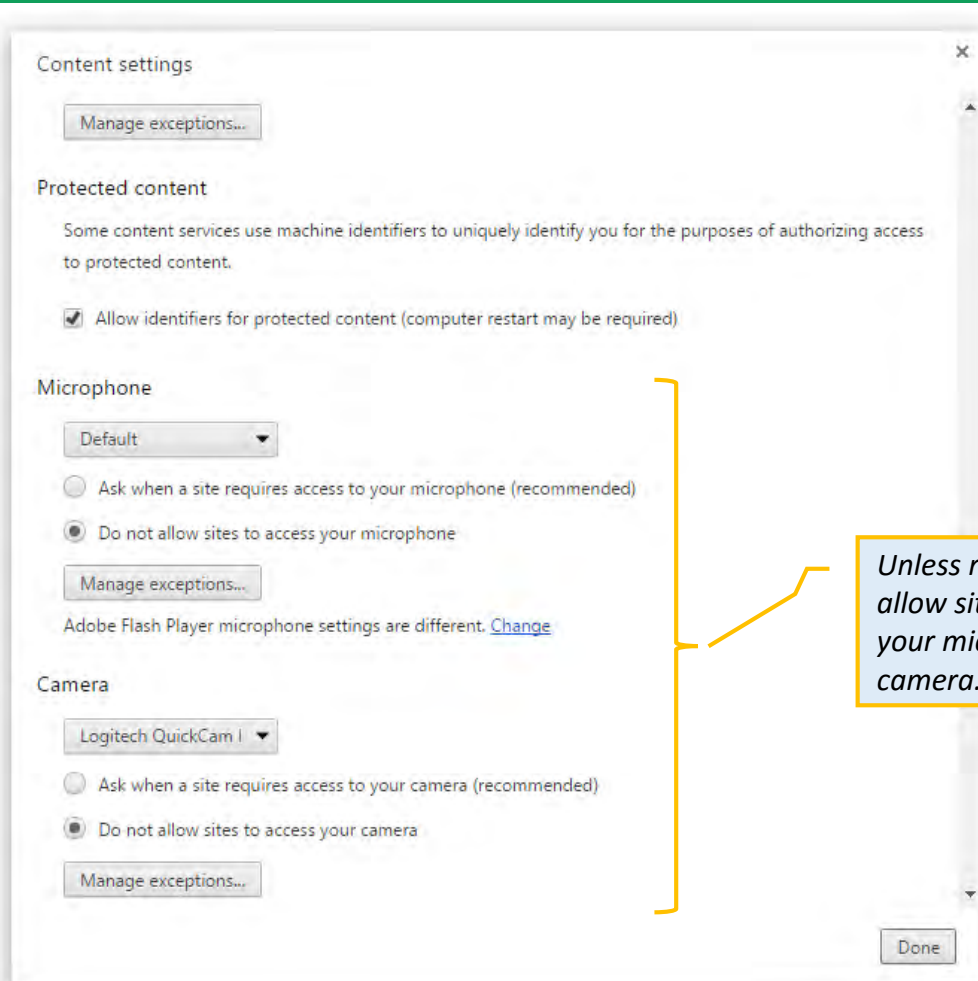
- Allow all sites to show notifications
- Ask when a site wants to show notifications (recommended)
- Do not allow any site to show notifications

Manage exceptions...

Control which sites can track your physical location.



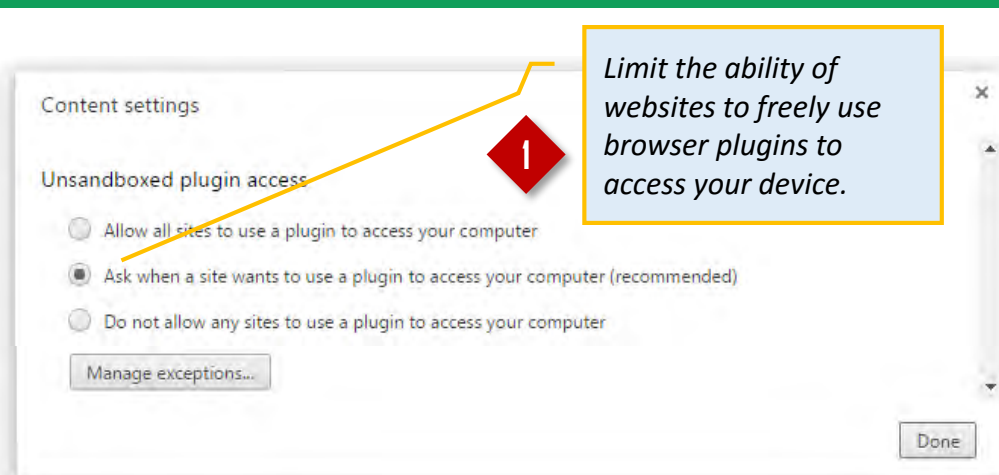
Content settings – Microphone & Camera



Unless required, do not allow sites to access your microphone or camera.



Plugin access



Limit the ability of websites to freely use browser plugins to access your device.

Only expert users and administrators should adjust the other settings on this page.

Access 'Clear browsing data'

Privacy

[Content settings...](#) [Clear browsing data...](#)

Click 'Clear browsing data'

Google Chrome may use web services to improve your browsing experience. You may optionally disable these services. [Learn more](#)

- 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](#)



Set as shown to clear most of your browsing history.

Using the settings shown does not guarantee security, but will help to reduce exposure. Note that parts of your browsing history may still be saved elsewhere.



Clear browsing data

Obliterate the following items from: [the beginning of time](#)

- Browsing history
- Download history
- Cookies and other site and plugin data
- Cached images and files
- Passwords
- Autofill form data
- Hosted app data
- Content licenses

[Learn more](#) [Clear browsing data](#) [Cancel](#)

Saved [content settings](#) and [search engines](#) will not be cleared and may reflect your browsing habits.

Secure Firefox



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

Accessing Settings

1 **Click here...**

2 **Then click here to use private browsing (more secure)**

The screenshot shows the Firefox browser window with the Google search page. The hamburger menu is open, and the 'New Private Window' option is highlighted with a yellow box. A red diamond with the number '2' points to this option. A text box next to it says 'Then click here to use private browsing (more secure)'. The background shows the Google search page with the search bar and 'Google Search' and 'I'm Feeling Lucky' buttons.

3 **Or here to review (and optionally clear) browsing history.**

4 **Finally, access Options here**

The screenshot shows a close-up of the Firefox hamburger menu. The 'History' and 'Options' options are highlighted with yellow boxes. A red diamond with the number '3' points to the 'History' option, and a text box next to it says 'Or here to review (and optionally clear) browsing history.'. Another red diamond with the number '4' points to the 'Options' option, and a text box next to it says 'Finally, access Options here'.

Options - Search

The screenshot shows the 'Search' options page in Firefox. The left sidebar has 'Search' selected. The main content area is titled 'Search' and includes sections for 'Default Search Engine', 'One-click search engines', and 'Provide search suggestions'. Annotations include: 1. A box pointing to the 'Search' title with the text 'Select 'Search'...' and a red diamond '1'. 2. A box pointing to the 'Provide search suggestions' checkbox with the text 'Set this to 'On' for optimum search performance' and a red diamond '2'. 3. A box pointing to the 'Google' search engine in the 'One-click search engines' list with the text 'Set this to 'Never remember history'' and a red diamond '3'. 4. A box pointing to the 'Clear all current history' link with the text 'You can clear your current history (recommended).' and a red diamond '4'. A red diamond '1' is also present near the top right of the page.

Options - Privacy

The screenshot shows the 'Privacy' options page in Firefox. The left sidebar has 'Privacy' selected. The main content area is titled 'Privacy' and includes sections for 'Tracking', 'History', and 'Location Bar'. Annotations include: 1. A box pointing to the 'Privacy' title with the text 'Select 'Privacy'...' and a red diamond '1'. 2. A box pointing to the 'Tell sites that I do not want to be tracked' checkbox with the text 'Select to turn off tracking' and a red diamond '2'. 3. A box pointing to the 'Never remember history' dropdown menu with the text 'Set to 'Never remember history'' and a red diamond '3'. 4. A box pointing to the 'Clear all current history' link with the text 'You can clear your current history (recommended).' and a red diamond '4'. A red diamond '1' is also present near the top right of the page.

Options - Advanced - General

Advanced

General Data Choices Network Update Certificates

Accessibility

- Always use the cursor keys to navigate within pages
- Search for text when I start typing
- Warn me when websites try to redirect or reload the page

Browsing

- Use autoscrolling

Set this to 'on'

Options - Advanced - Update

Advanced

General Data Choices Network Update Certificates

Firefox updates:

- Automatically install updates (recommended: improved security)
 - Warn me if this will disable any of my add-ons
- Check for updates, but let me choose whether to install them
- Never check for updates (not recommended: security risk)

Show Update History

- Use a background service to install updates

Automatically update:

- Search Engines



Failure to update browsers & add-ons can be exploited by hackers & malware.

Secure IE

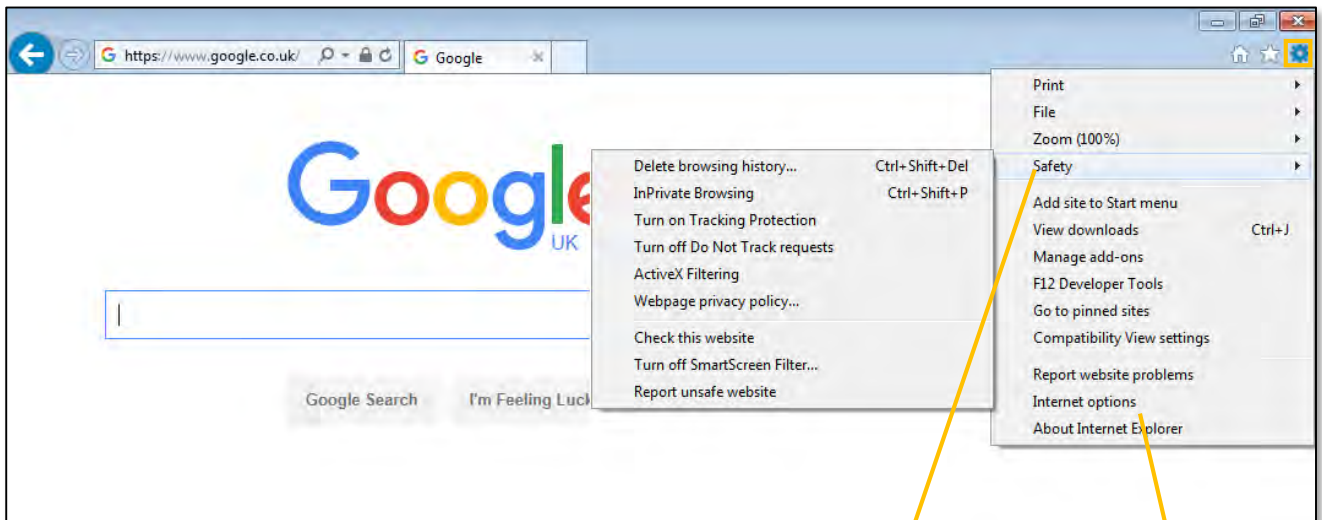


Note: all screenshots taken from the .com site. Mobile versions may have differing features.

Accessing Safety Options & Settings



Click to access the menu

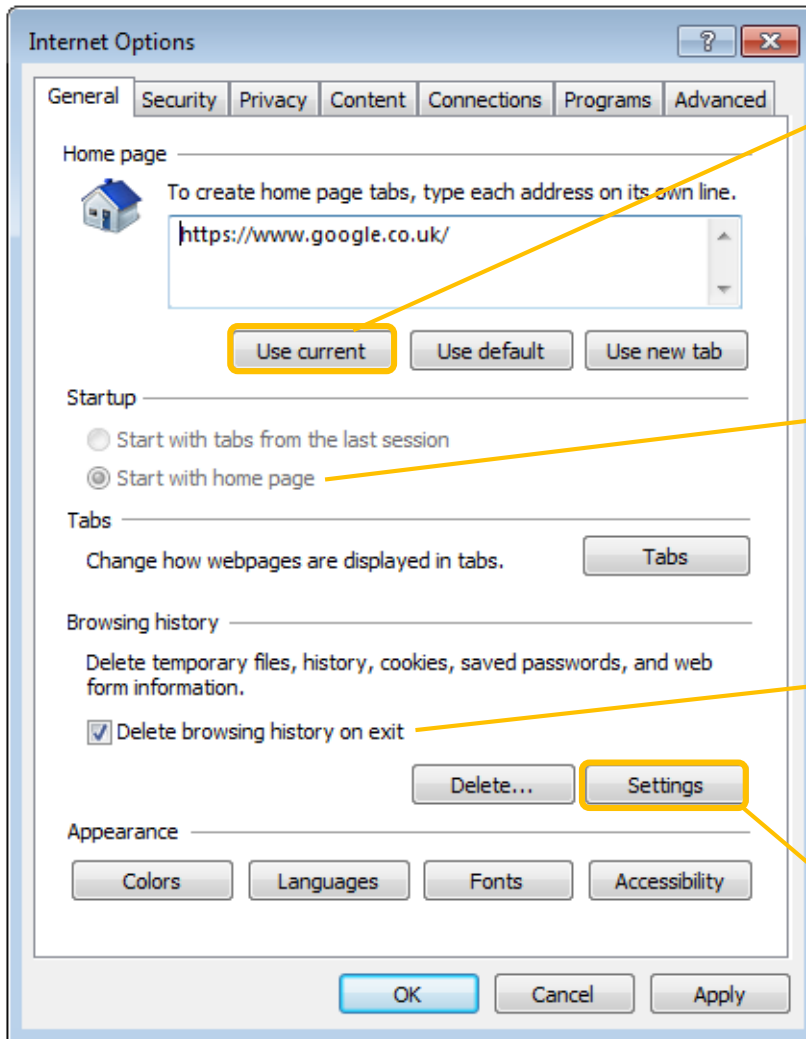


Then select 'Safety' for a quick list of popular options



Or click 'Internet options' to access the main security settings area.

Internet Options - General



Select a 'safe' home page that does not imply any specific browsing habits.



Set IE to start with the home page.



Set to delete browsing history on exit.



Now click 'Settings'.



Internet Options – General - Settings

The image shows two overlapping screenshots of the Internet Options dialog box. The top screenshot shows the 'History' tab selected, with an annotation pointing to it. The bottom screenshot shows the 'Caches and databases' tab selected, with an annotation pointing to the 'Allow website caches and databases' checkbox.

1 Select the 'History' tab...

2 Set this value to '0'.

3 Select the 'Caches and databases' tab...

4 Deselect this option.

Website Data Settings - History Tab:

Specify how many days Internet Explorer should save the list of websites you have visited.

Days to keep pages in history:

Website Data Settings - Caches and databases Tab:

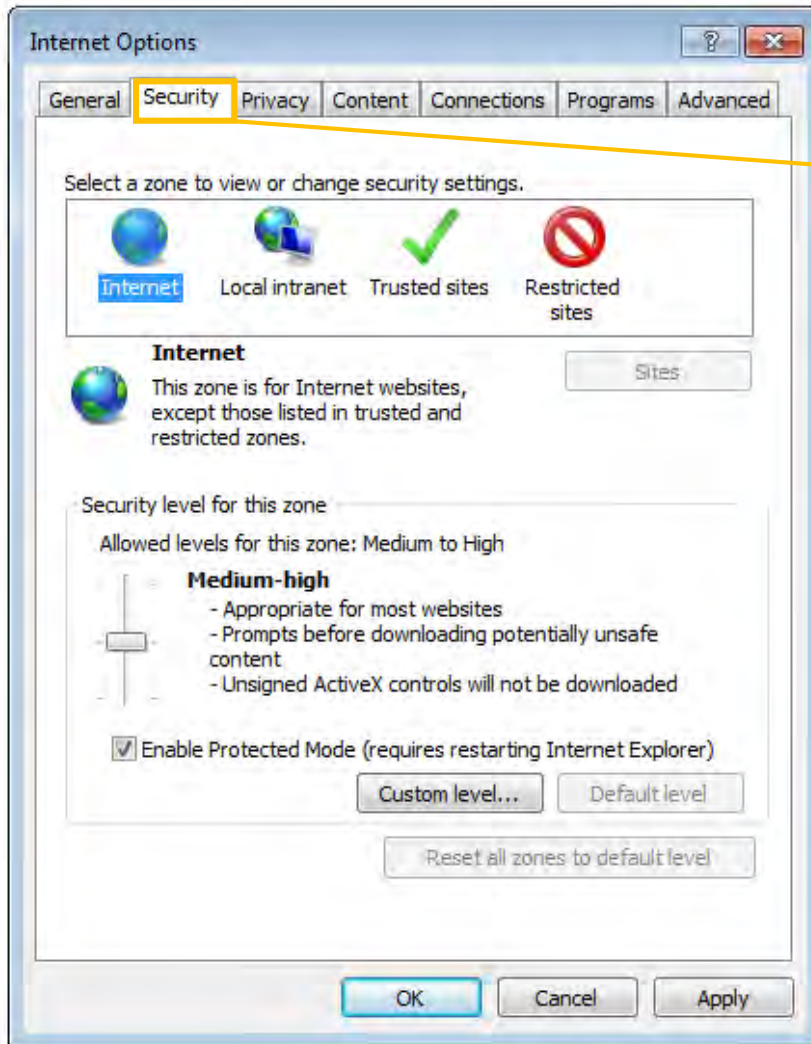
Allow website caches and databases

Notify me when a website cache or database exceeds: MB

Website	File Storage	Data Storage	Exceed limit
windowsphone.com	4 MB	0 MB	N/A

Buttons: Exceed limit, Delete, OK, Cancel

Internet Options – Security

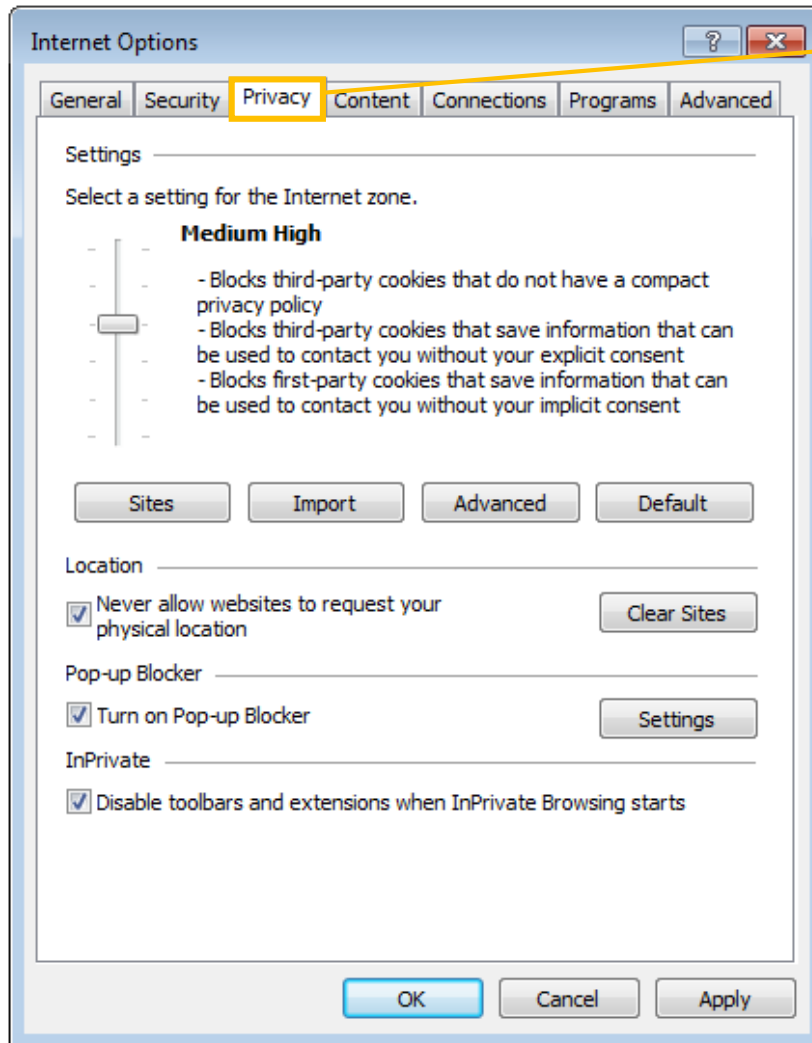


Select the 'Security' tab...



Choose the security level that suits your role.

Internet Options – Privacy



Select the 'Privacy' tab...



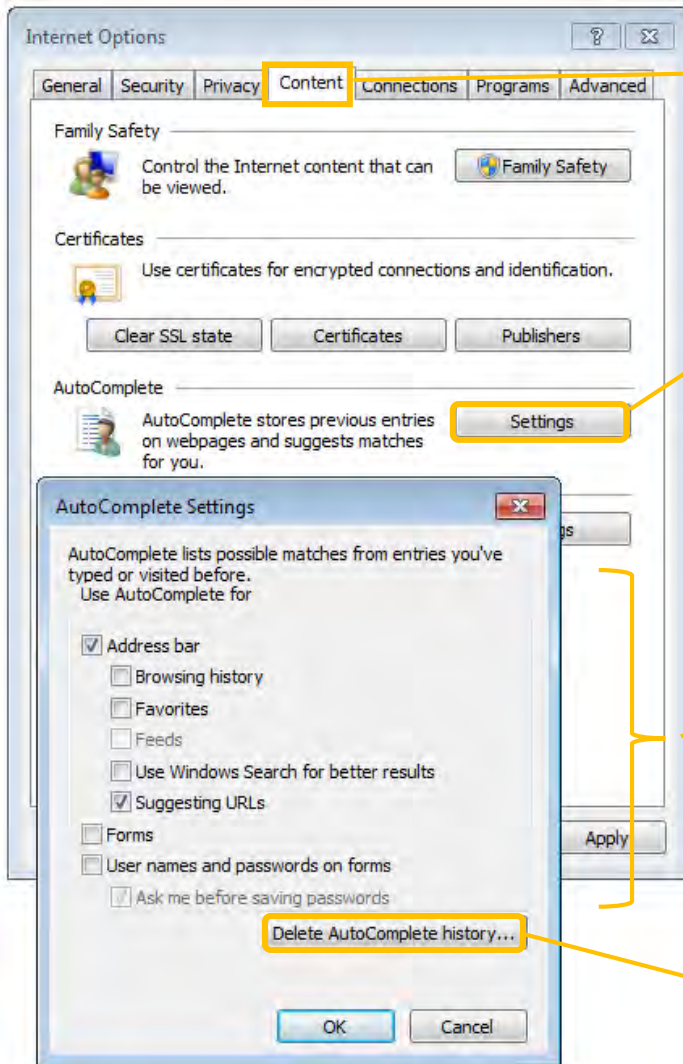
Choose the cookie setting that suits your role.



Select all three settings as shown (recommended).



Internet Options – Content



Select the 'Content' tab...

1

Click 'Settings'...

2

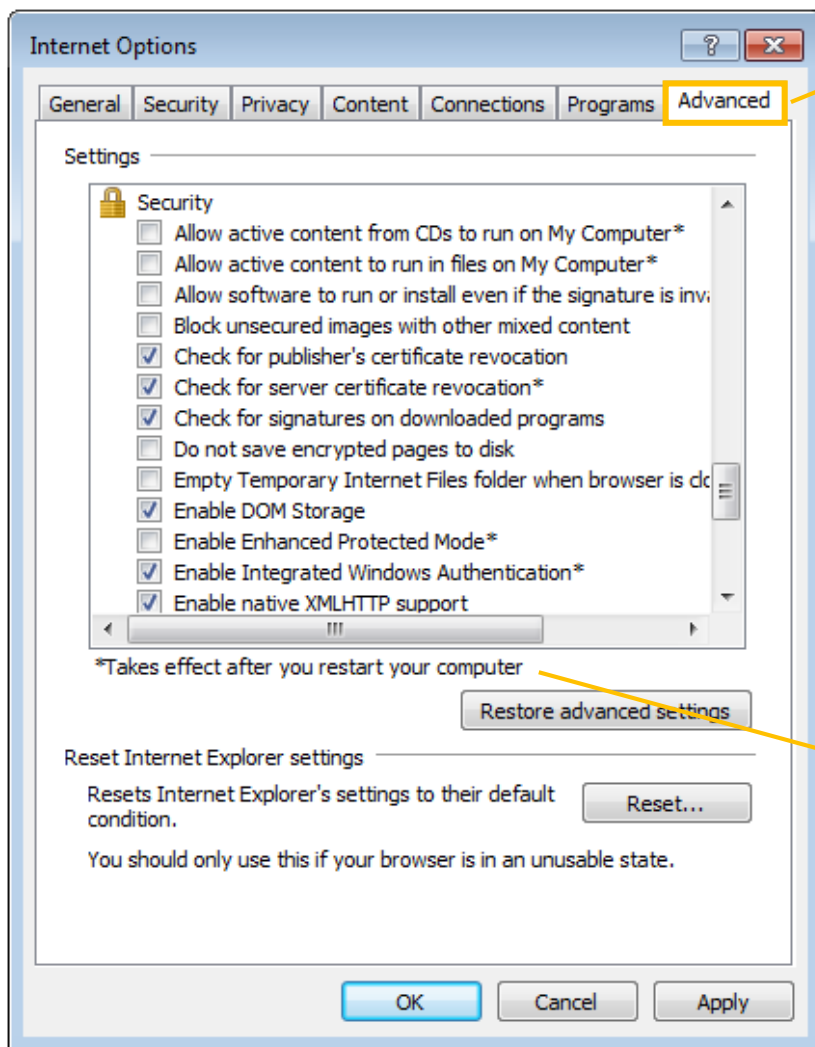
Choose the auto-complete settings that suit your role.

3

Click 'Delete AutoComplete history'.

4

Internet Options – Advanced



Select the 'Advanced' tab...

1

2
Scroll down to 'Security'. Consult your administrator for the settings required in your organisation.

3
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.

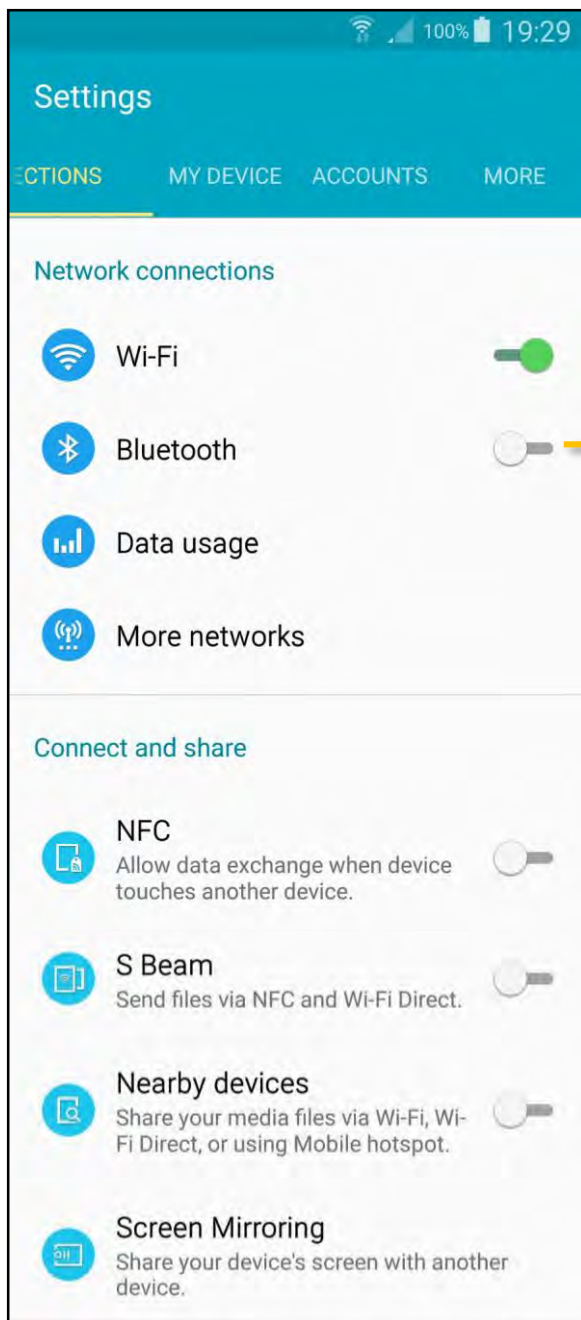
Contact information, messages, photos, social media feeds, location data and more can all be derived from a mobile device.

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

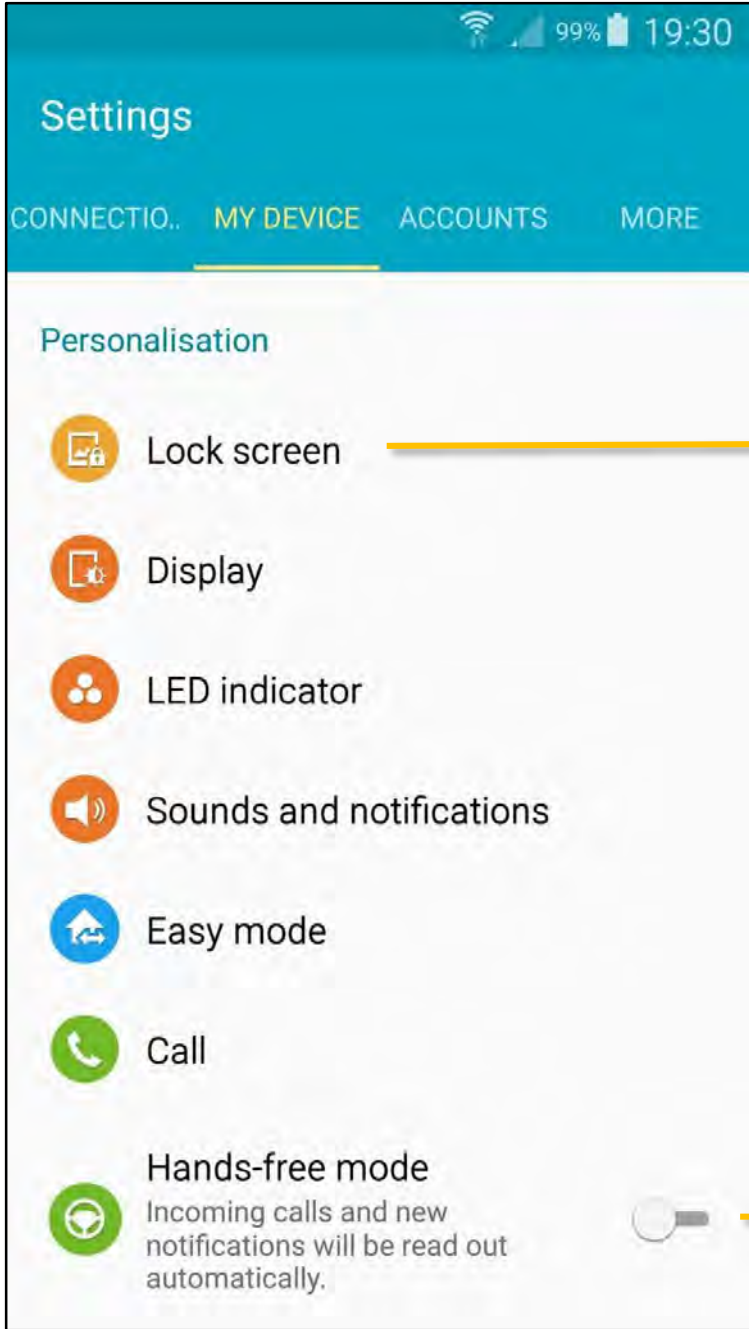


*Turn off Bluetooth unless required.
Always keep it off when not in use.*



Turn off Connect and Share options unless essential

My Device



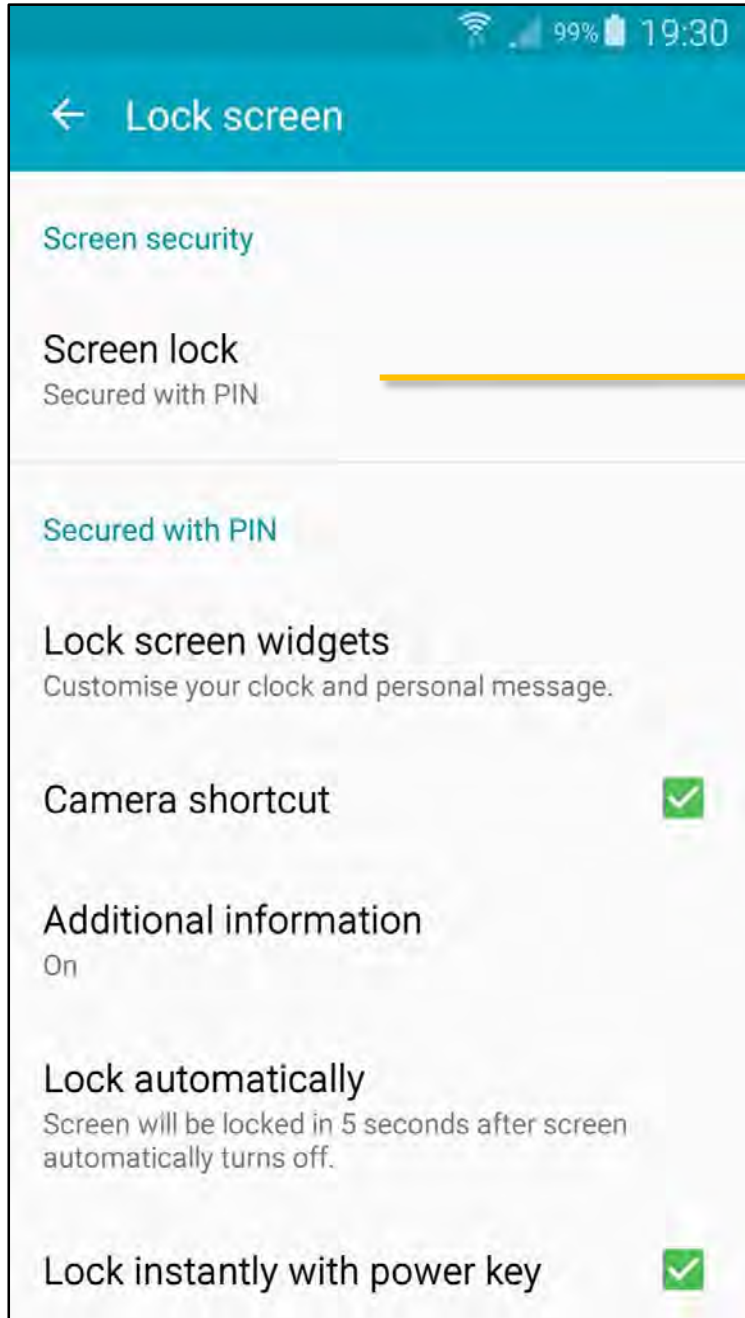
1

Set a reasonable lock screen period. (See next page)

2

Turn off hands-free mode unless required

Lock Screen

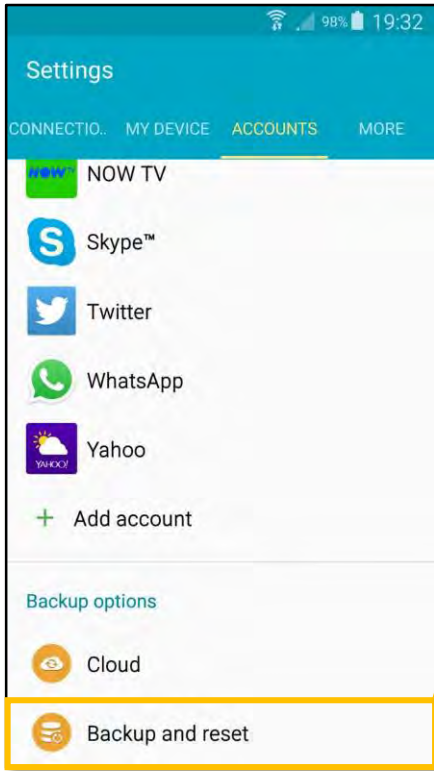


Set a lock screen PIN



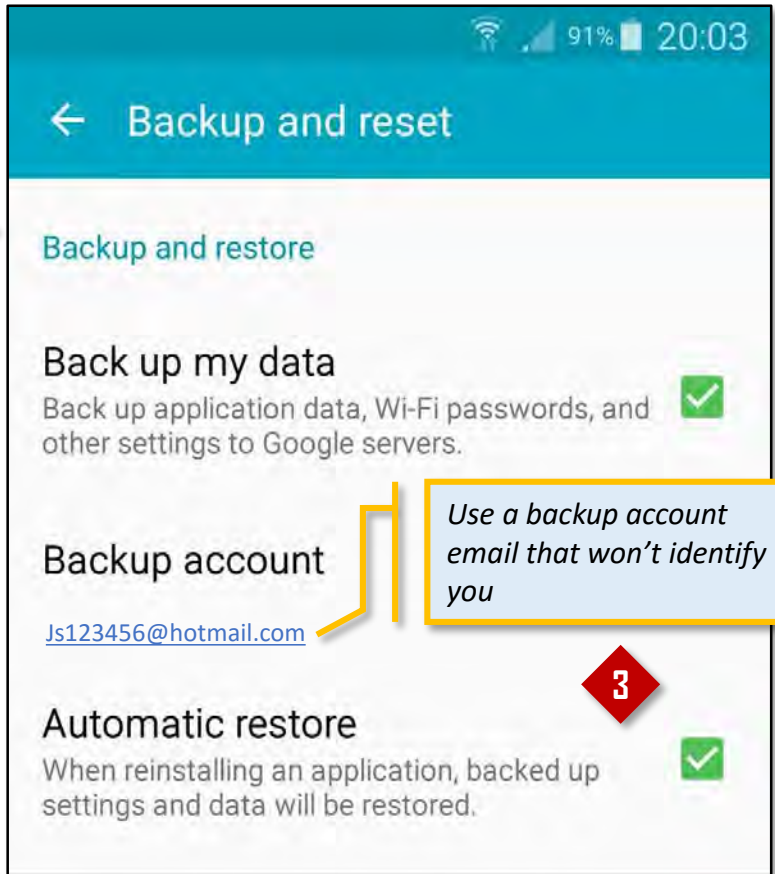
Set automatic locking and power key locking to ON

Backup options



1

Press to access Backup options

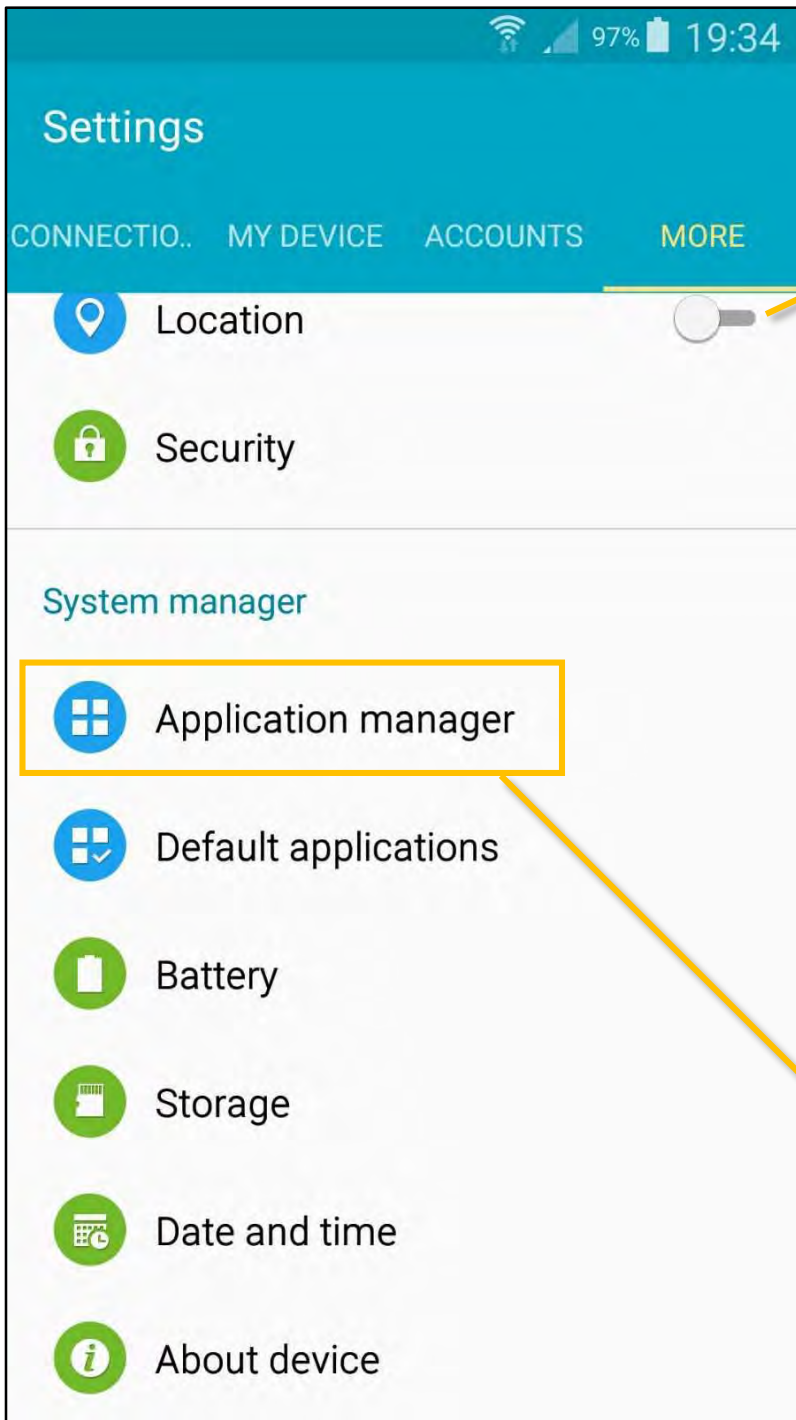


2

Set appropriate backup and restore settings, based on your role

Use a backup account email that won't identify you

Location and Application management



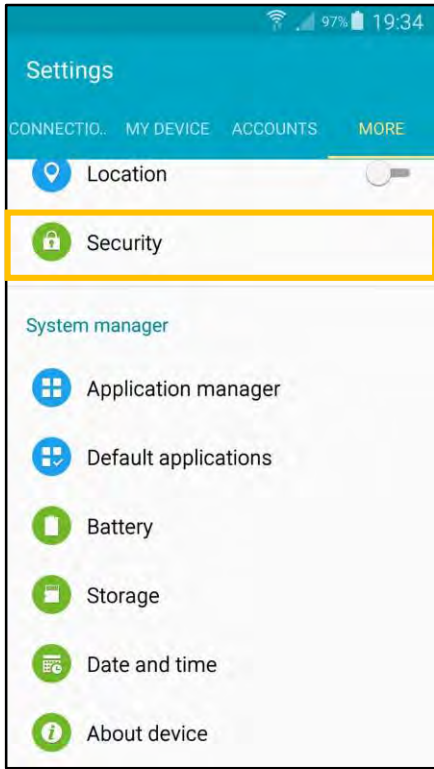
1

Turn off location services, unless required

2

Review your installed Apps and remove any unwanted ones.

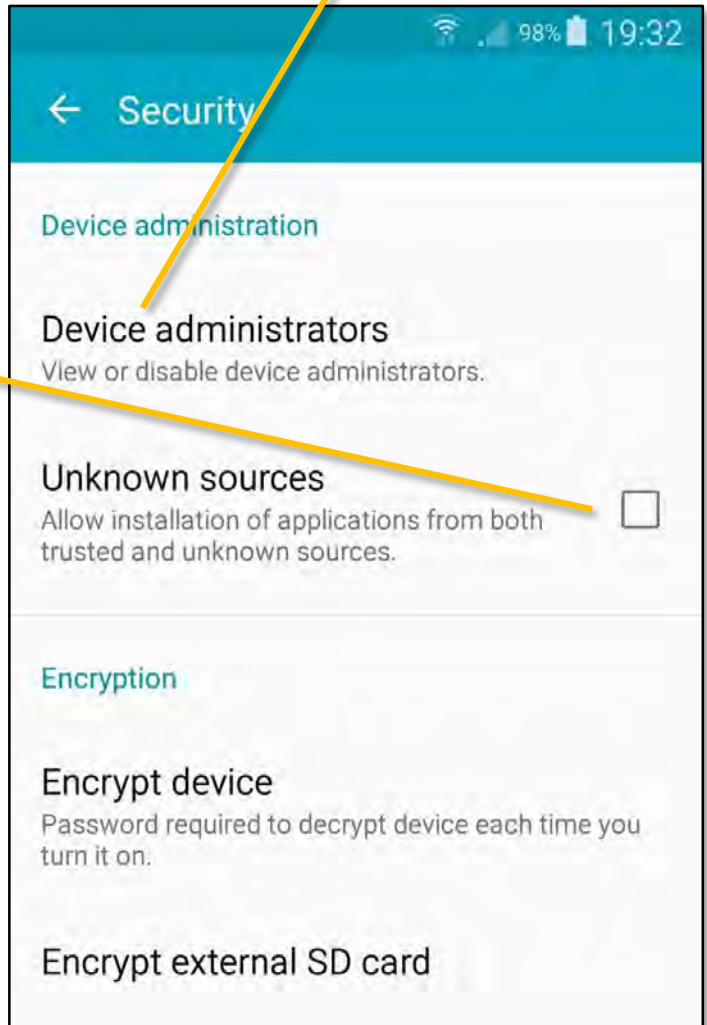
Security



Press to access Security management



Review your device administrators



Disable unknown sources



Consider encrypting your device & any SD cards, if permitted



Security

Though useful, the **Find My Mobile** feature could be exploited by a hacker to track your location

1

Request local policy guidance for each of these settings

SIM card lock will prevent the switching of SIM cards

2

Do not make passwords visible

The screenshot shows the 'Security' settings page on an Android device. The status bar at the top indicates 98% battery and the time 19:33. The page title is 'Security' with a back arrow. The settings listed are: 'Find My Mobile', 'Remote controls' (Off), 'SIM change alert', 'Go to website' (http://findmymobile.samsung.com), 'SIM card lock', 'Set up SIM card lock', and 'Passwords'. Under 'Passwords', the option 'Make passwords visible' is shown with a checkbox that is currently unchecked. Yellow lines connect the text boxes on the left to the corresponding settings on the right: a line from the top box points to 'Find My Mobile'; a line from the middle box points to 'SIM change alert'; a line from the bottom box points to the 'Make passwords visible' checkbox.

Security updates



Ensure that your security policies are up-to-date



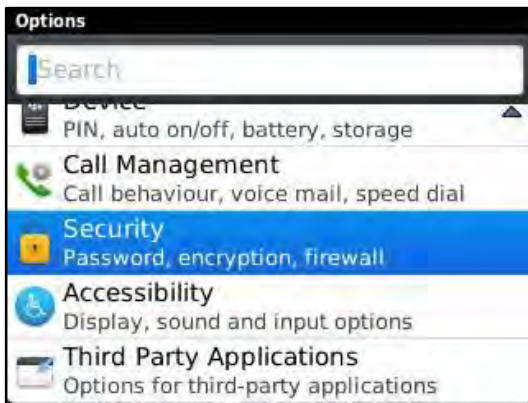
These days, smartphones hold loads of sensitive data.

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



Secure Smart Phone Blackberry

To access Security settings



Enter the Options menu and then select Security



Password



Select Password from the Security menu



- *Enable password control*
- *Select a strong password*
- *Limit the number of attempts*
- *Set a lock screen period*
- *Set to prompt on App install*



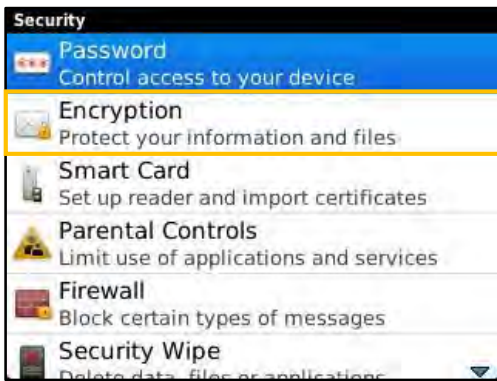
Holstering lock



Set the device to auto-lock when holstered.



Encryption



Now select Encryption from the Security menu



- *Select strong encryption*
- *Consider using two-factor*
- *Encrypt Contacts*
- *Encrypt Media Files*
- *Encrypt the Media Card*



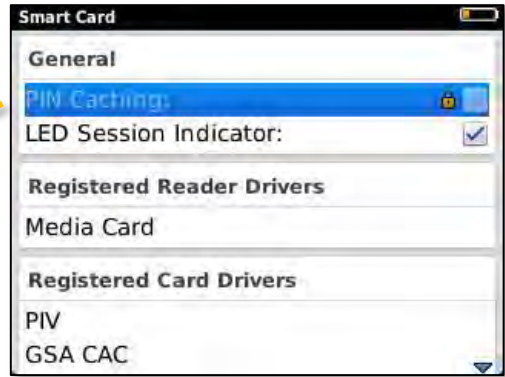
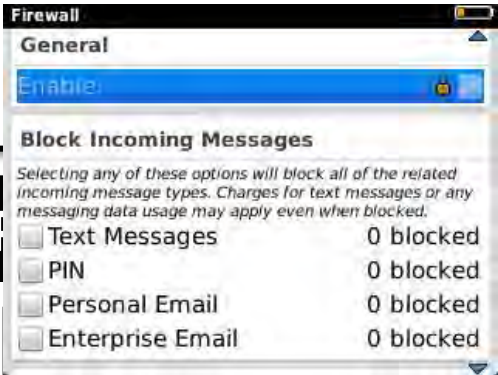
PIN Caching



Next, select Smart Card from the Security menu



Deactivate PIN Caching



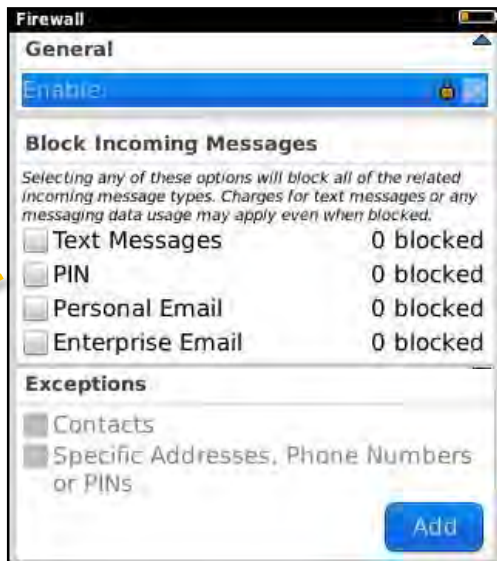
Select Parental Controls and consider whether to activate



Firewall



Select Firewall



Decide whether to block any message types



Firewall



Wipe all data and/or Apps from your device when appropriate



Secure Smart Phone iOS (iPhone/iPad) devices

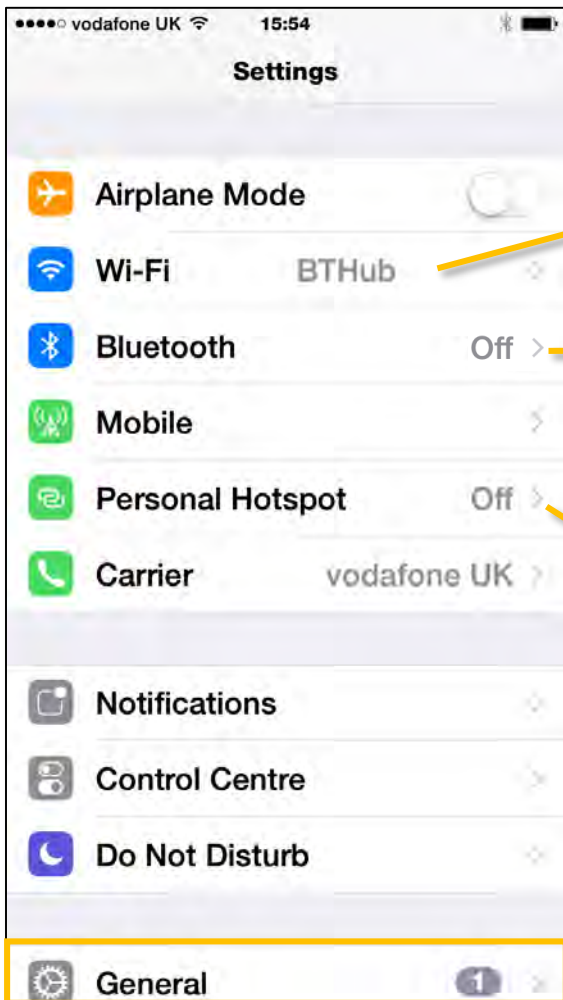


To access Settings



Locate the Settings icon on your device and press it

1



Only use trusted, secure WiFi networks

2

Turn Bluetooth off unless needed

3

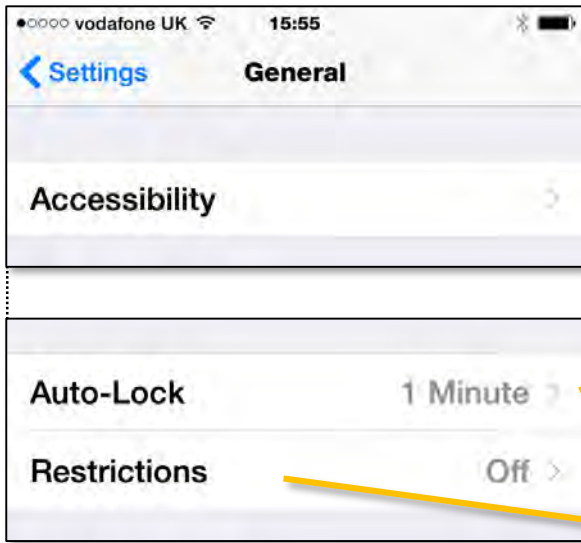
Turn Hotspot off unless needed

4

Now press the 'General' menu option

5

Auto-Lock



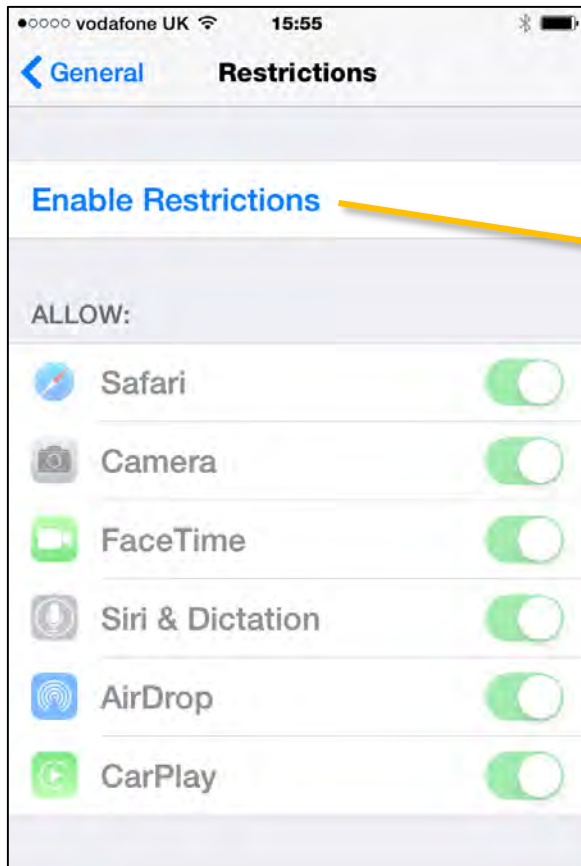
1

Set the period after which your device will automatically lock and require a password or Touch ID (fingerprint) to access.

2

Now press 'Restrictions' if you ever share your device with a child or other vulnerable person.

Restrictions



1

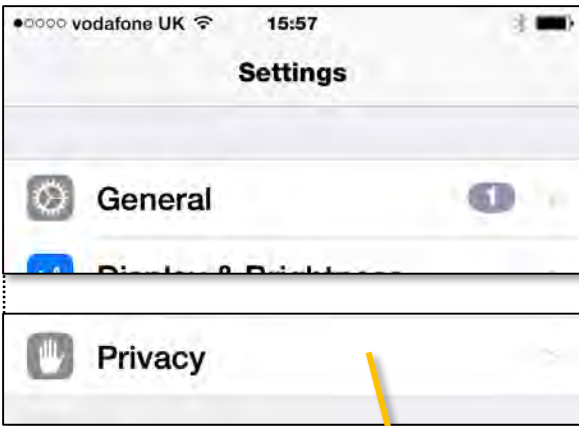
Press 'Enable Restrictions' if you want to restrict access to specific applications.

You will be asked to select a Restrictions Password.

2

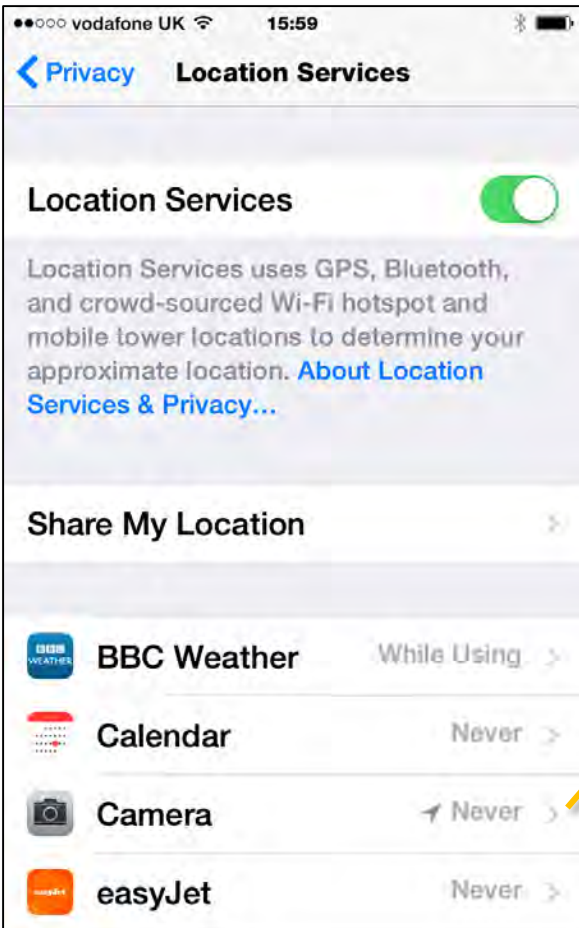
Disallow access to those applications you do not want other users of your device to use. You can also do this on any iOS device you have given to a child or other vulnerable person.

Privacy - Location Services



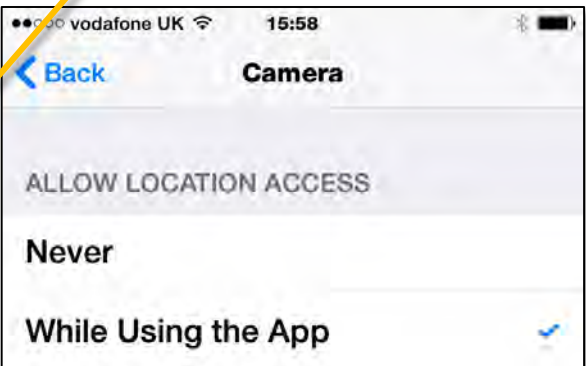
Return to 'Settings' and select 'Privacy'

Then select 'Location Services'



Turn Location Services **OFF** for maximum security (recommended)

Alternatively, you can leave Location Services **ON** and edit which Apps are allowed to use your location and when.



Privacy – Frequent Locations

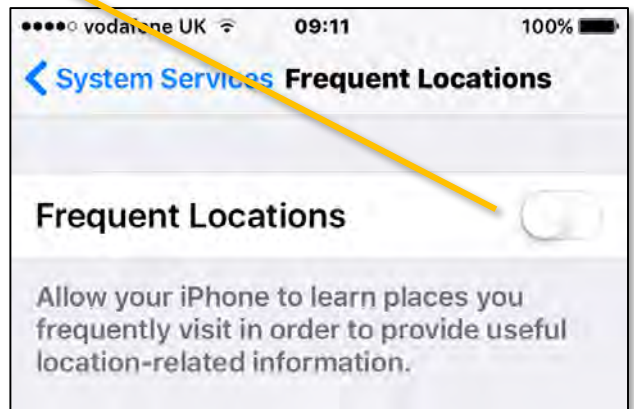


2

To prevent Apple from collecting data on your frequent locations, turn this option **OFF**.

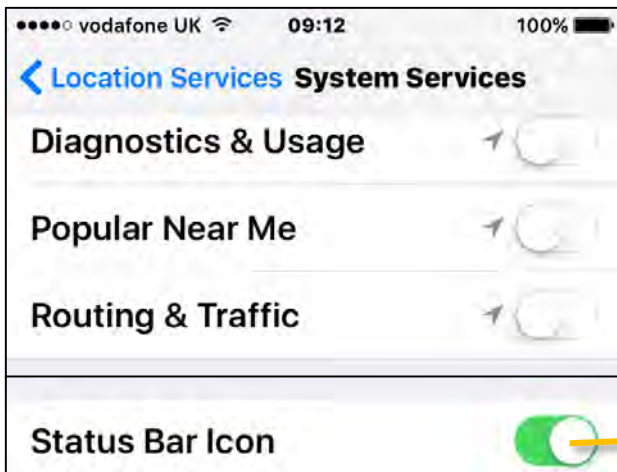
1

Stay in the 'Location Services' screen and scroll down to 'System Services'...

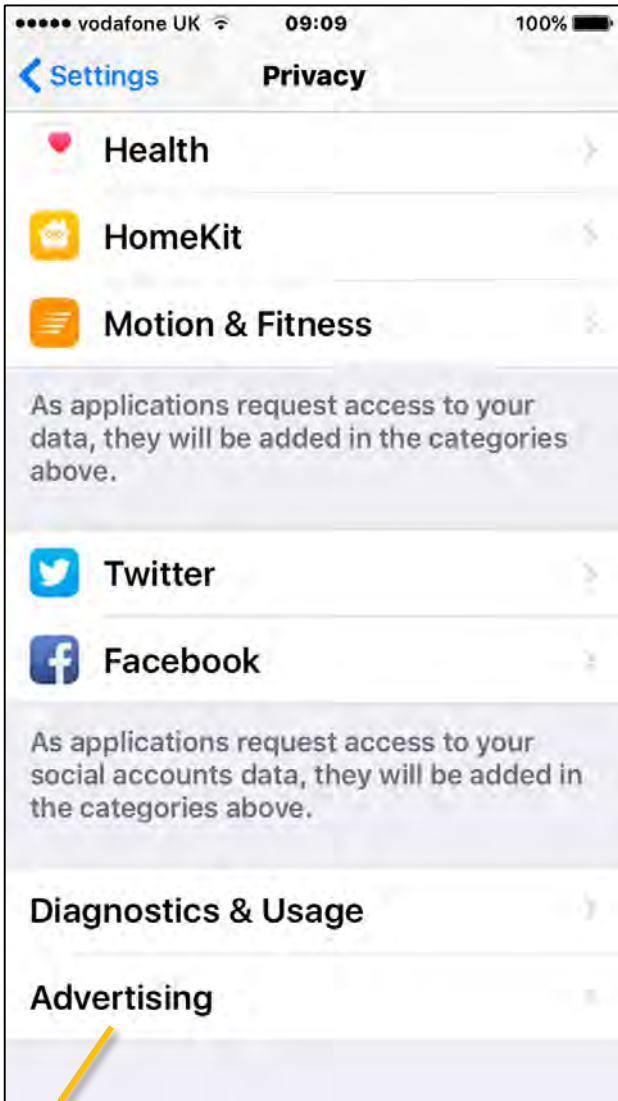


3

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.

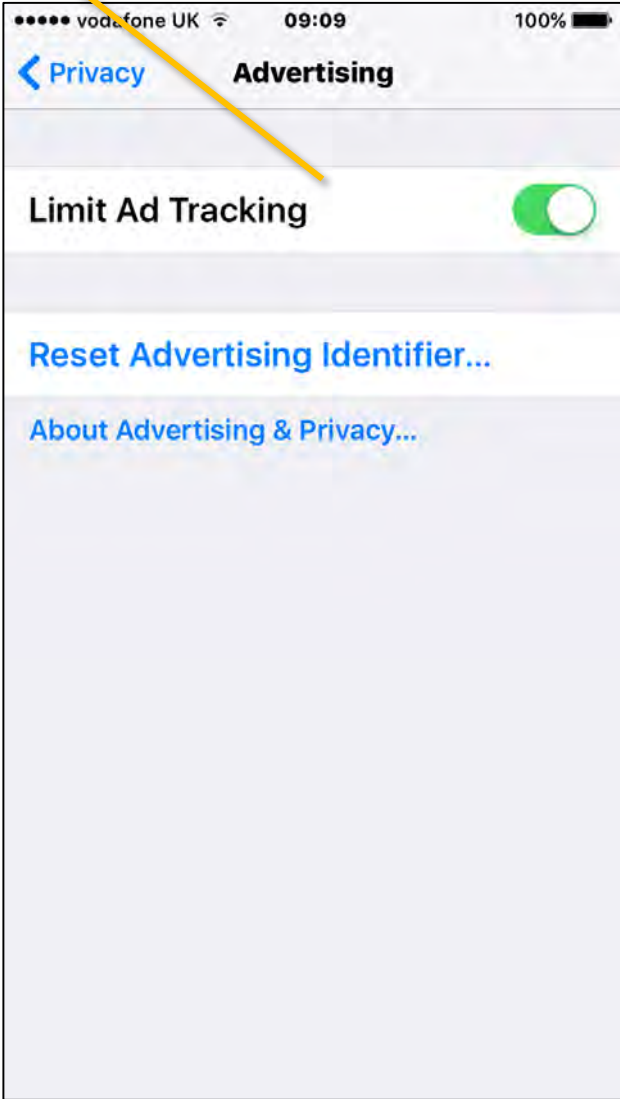


Privacy – Ad Tracking



2

To limit the amount of data collected by Apple, turn 'Limit Ad Tracking' ON.

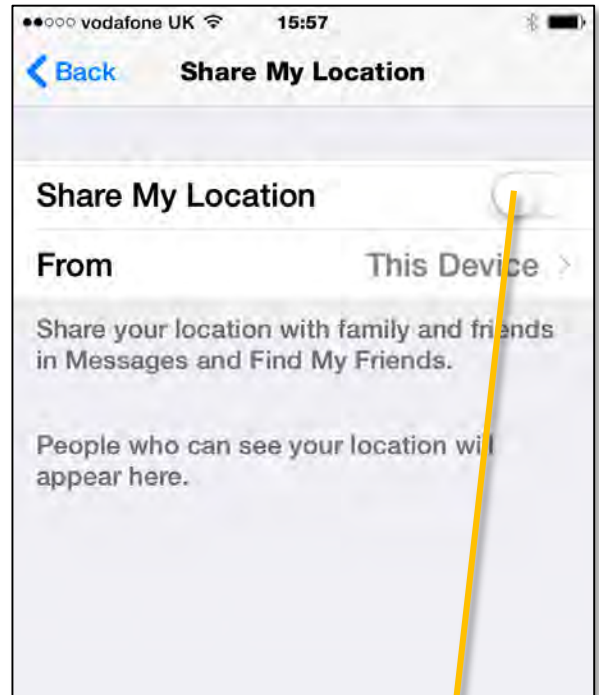
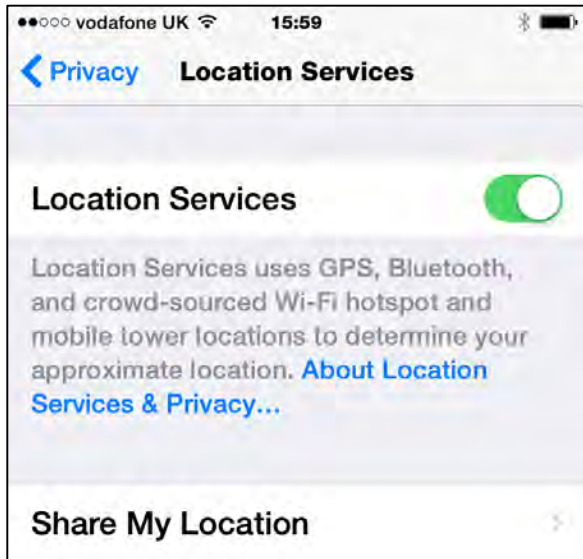


Return to 'Privacy' and scroll down to 'Advertising'...

1

Share My Location

Share My Location



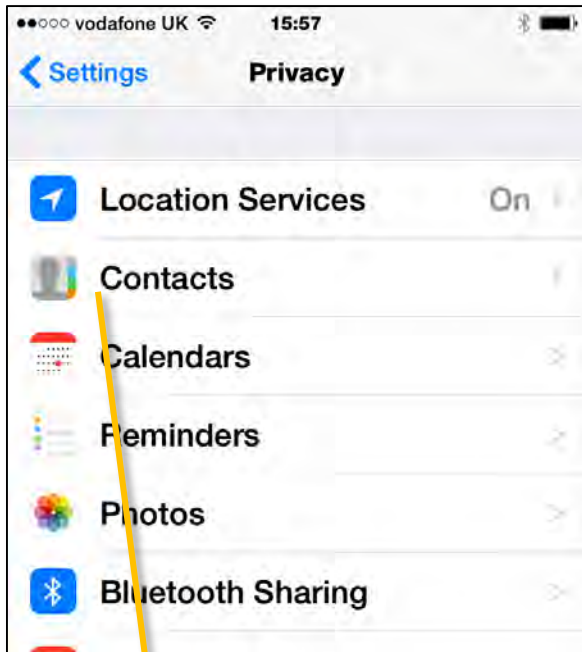
Set Share My Location to **OFF**.



I was able to track the banker's location because he:

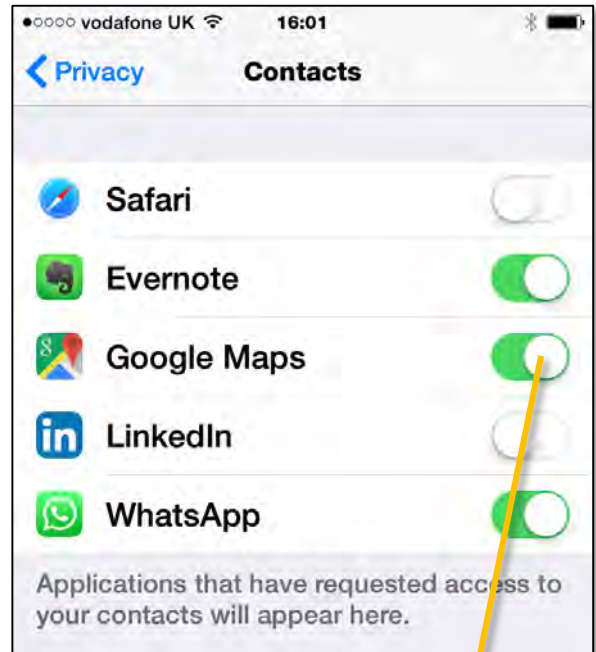
1. Left location services and location sharing on.
2. Was running a social App that automatically signed him in and showed his location in his public profile.

Contacts



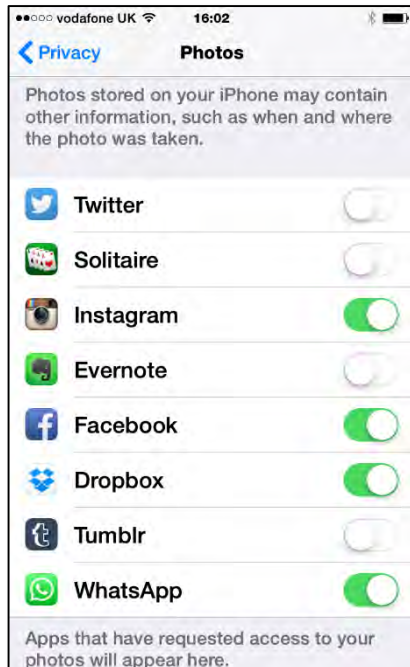
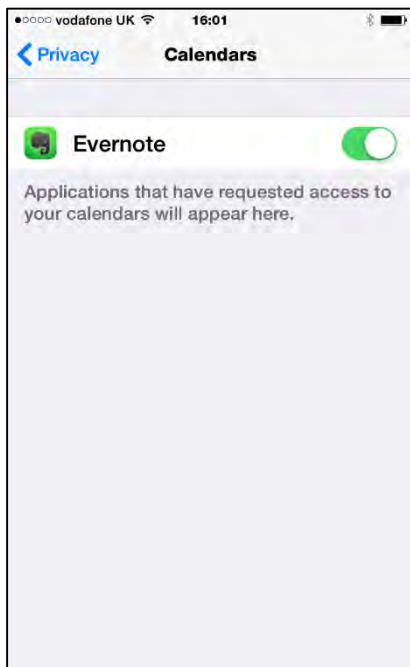
1

Return to Settings/Privacy and select 'Contacts'.



2

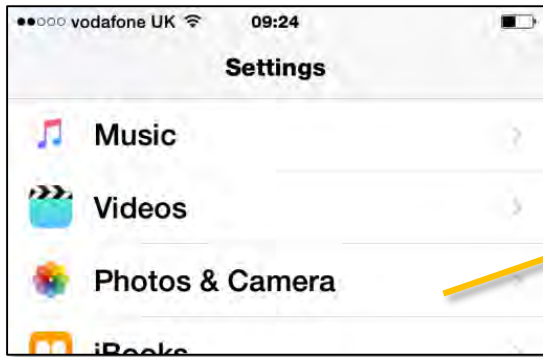
Decide which Apps genuinely need to access your contacts list. Turn the others OFF.



3

Repeat the process for Calendars, Photos and Microphone, etc.

Photos and Camera



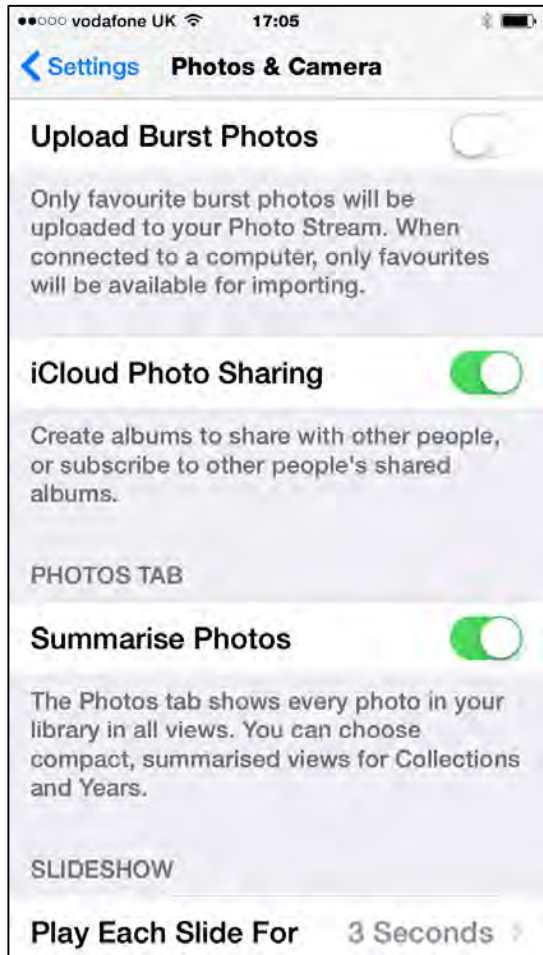
1

Return to Settings and click on 'Photos & Camera'.

2

Decide whether or not you want to automatically share and upload your photos.

Note that Cloud Photo Library will copy your photos onto ALL of your iCloud connected devices.



Off = safer



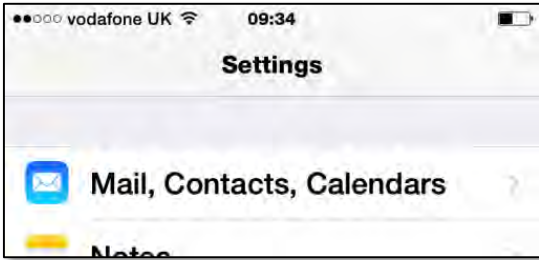
Off = safer



Off = safer

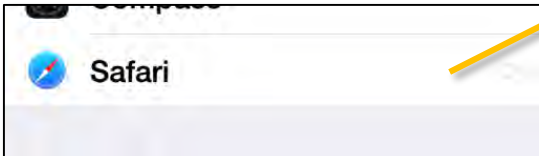


Safari Browser



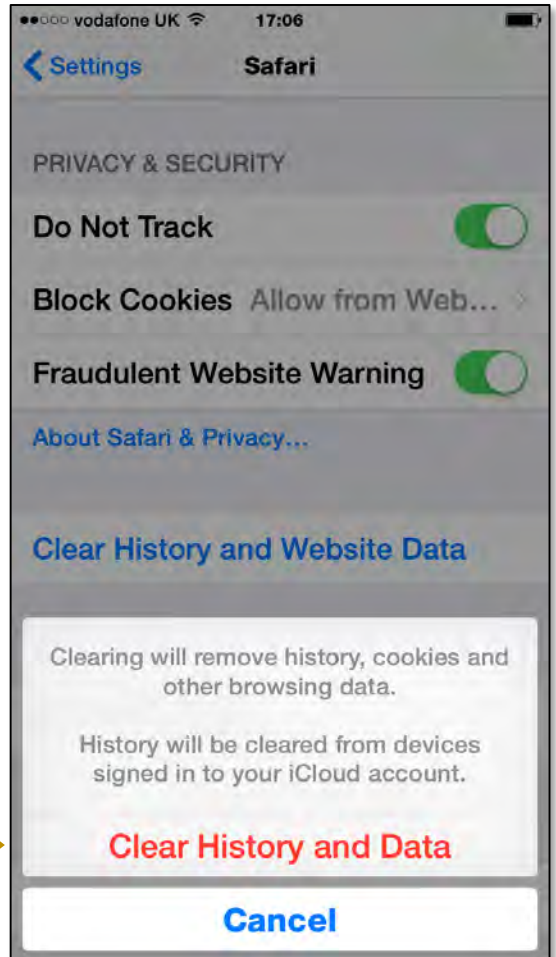
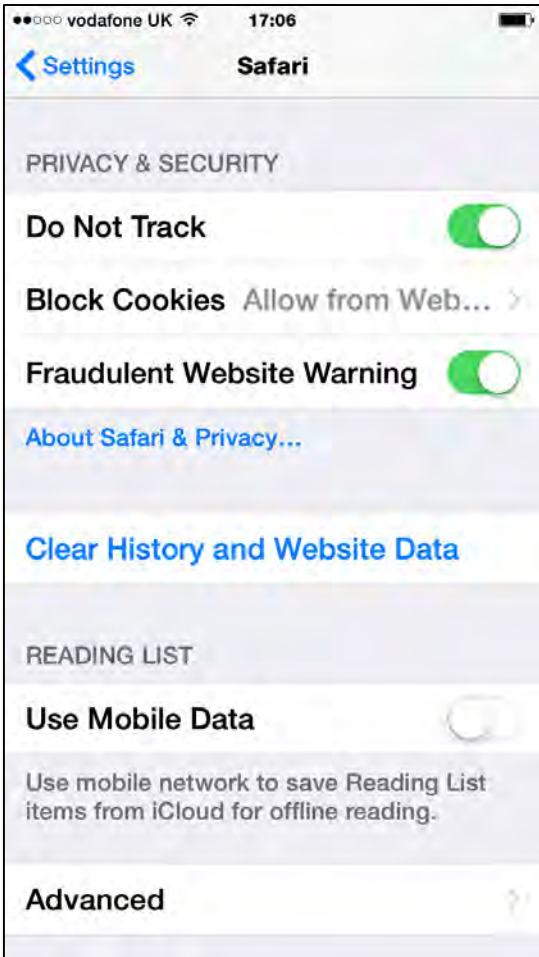
1

Return to Settings and scroll down until you locate the settings access for your Safari Web Browser. Press this.



2

Tell websites not to track you, then clear your history and website data regularly to remove browsing history and cookies.



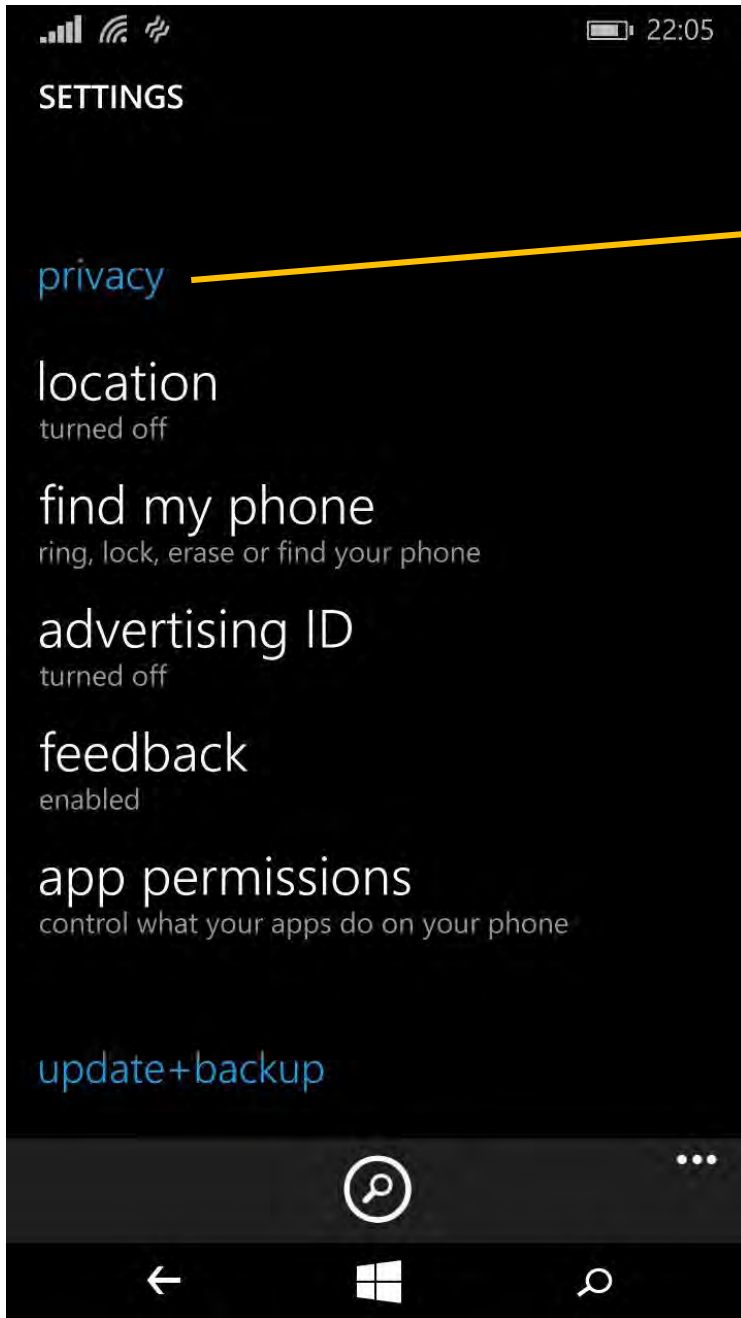
Regularly

Secure Smart Phone

Windows devices



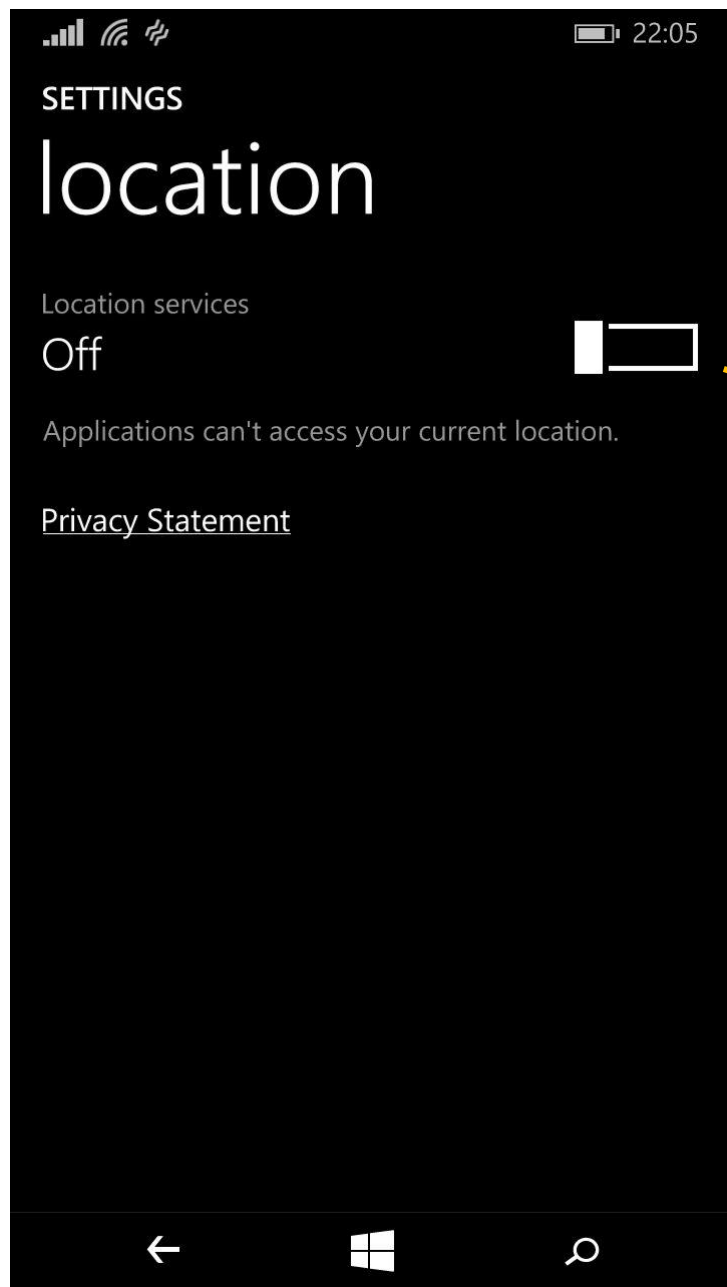
Settings - Privacy



Access and set each option as shown in the following pages



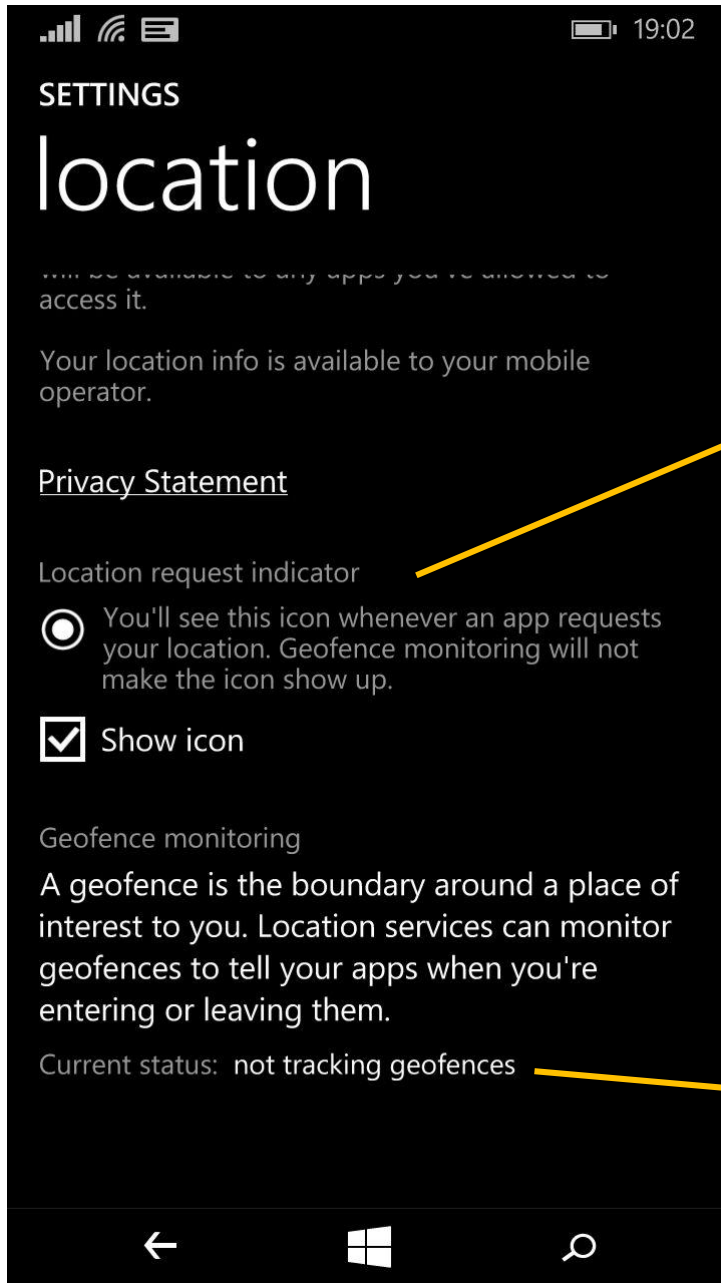
Location services



Turn Location Services OFF unless required



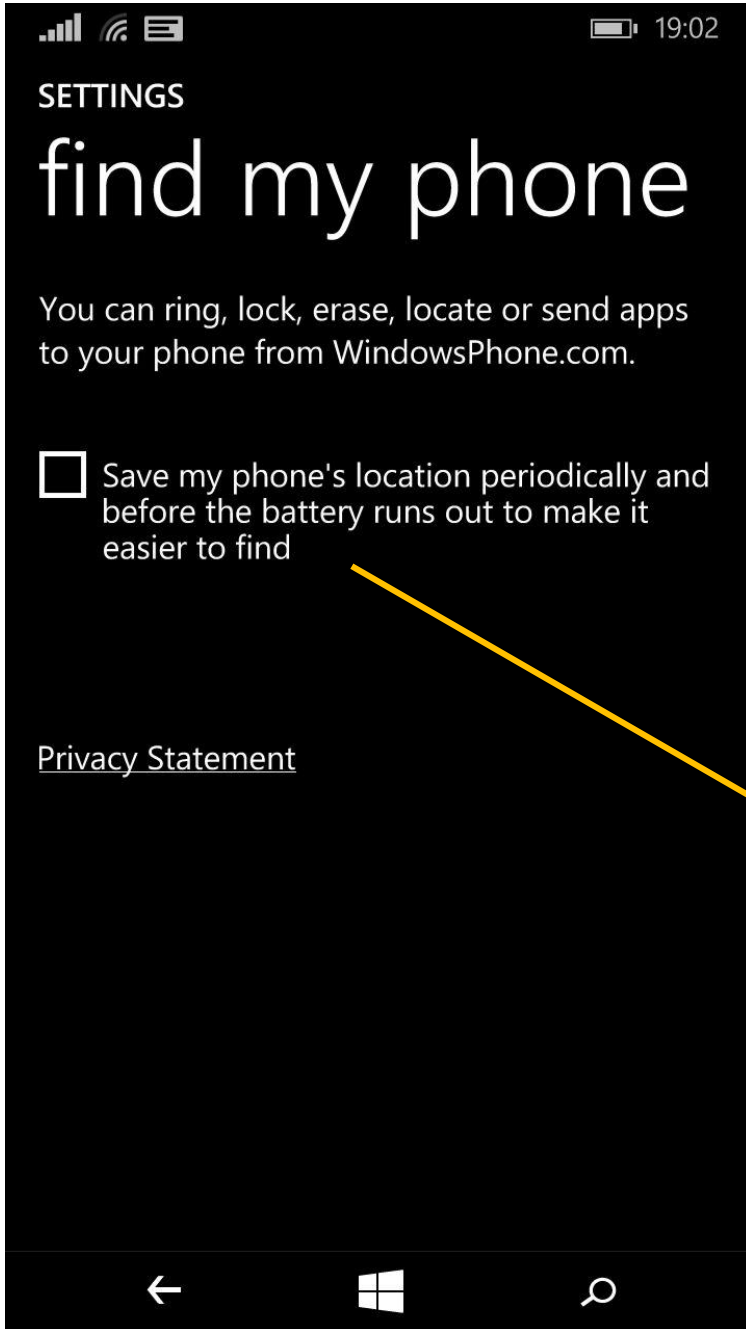
Location settings



Turn request
indicator ON

Turn Geofence
monitoring OFF

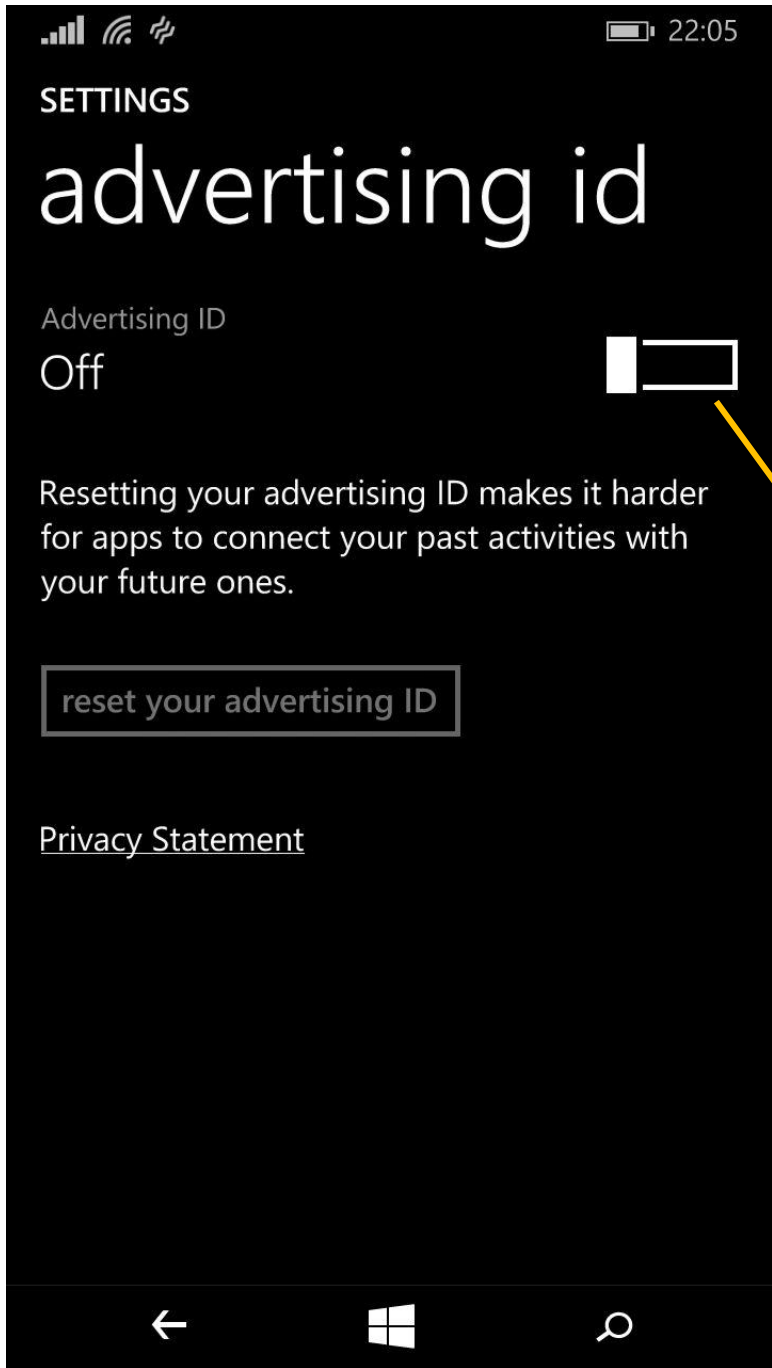
Find my phone



Set the saving of phone location OFF



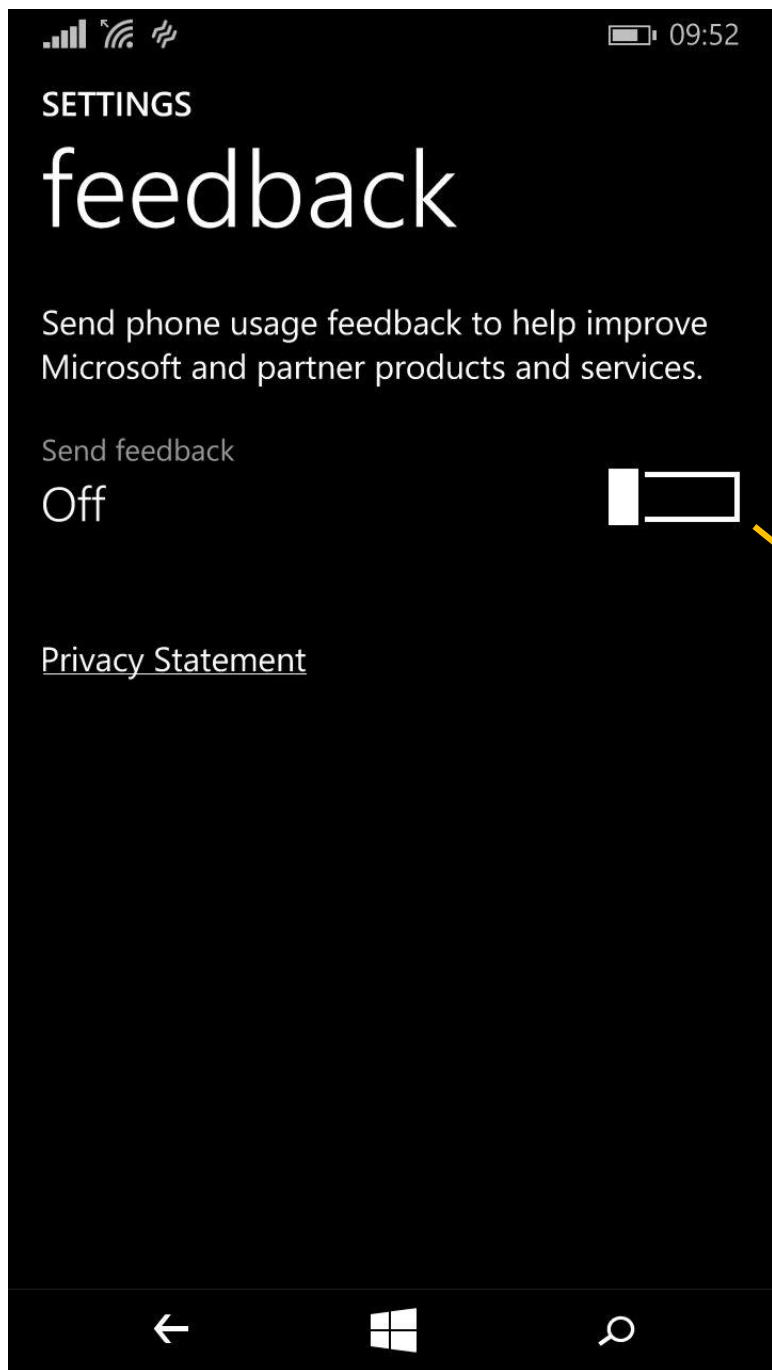
Advertising ID



Set Advertising ID to OFF



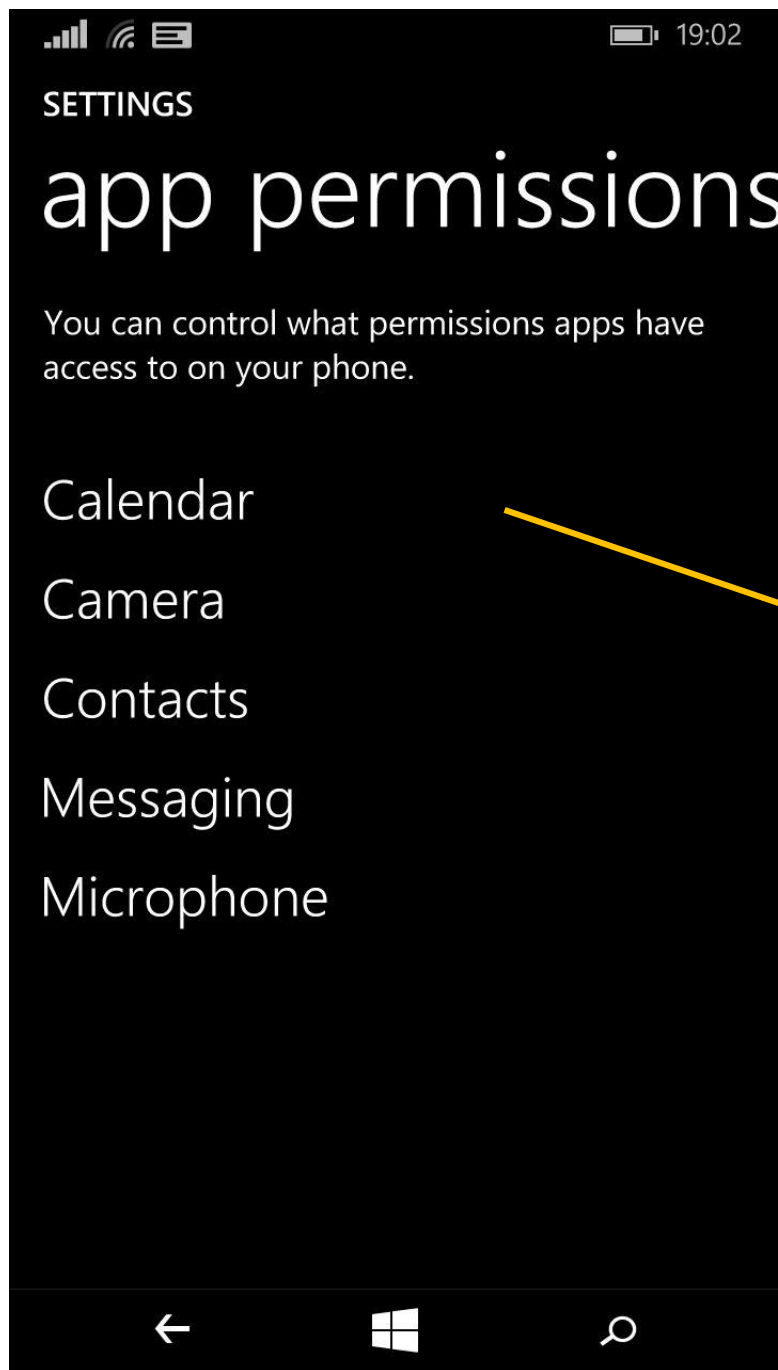
Feedback



Set Feedback to OFF



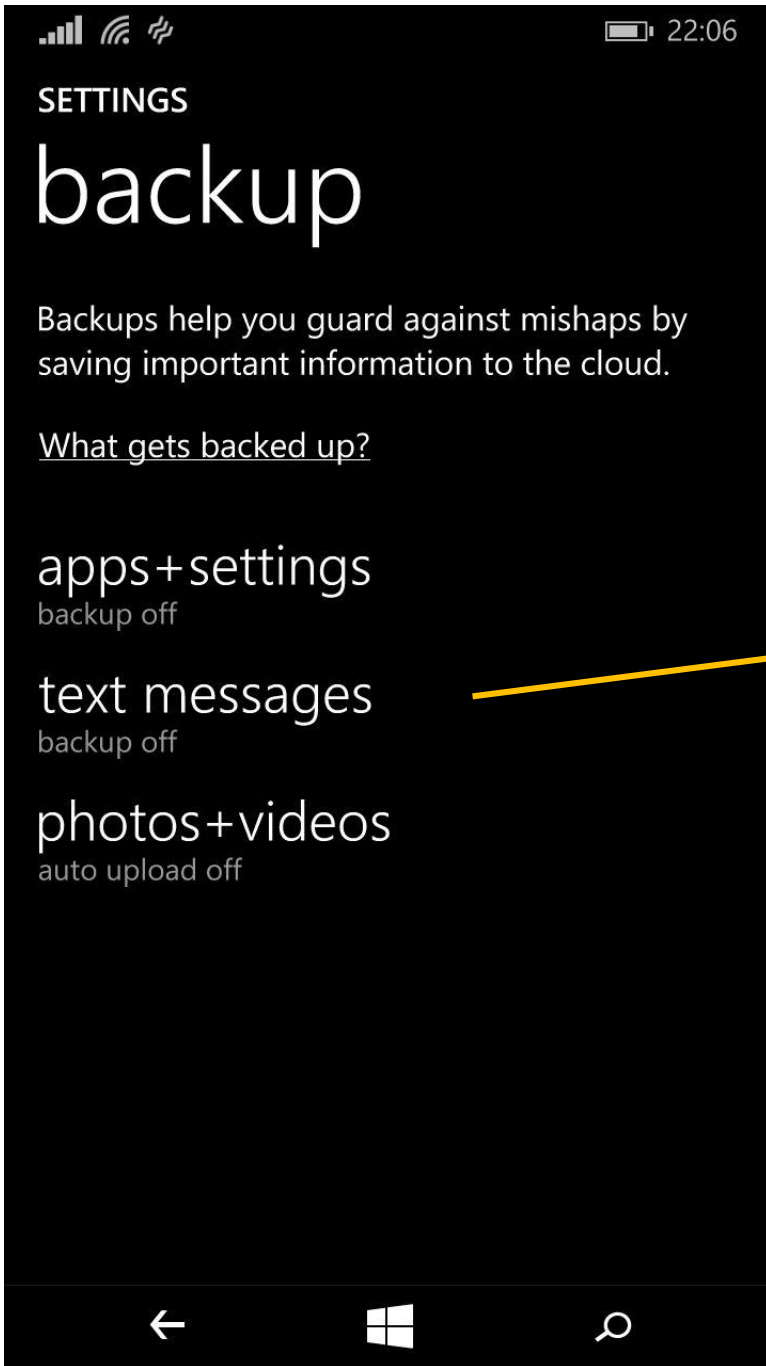
App permissions



Manage App permissions as shown in the following pages



Backup

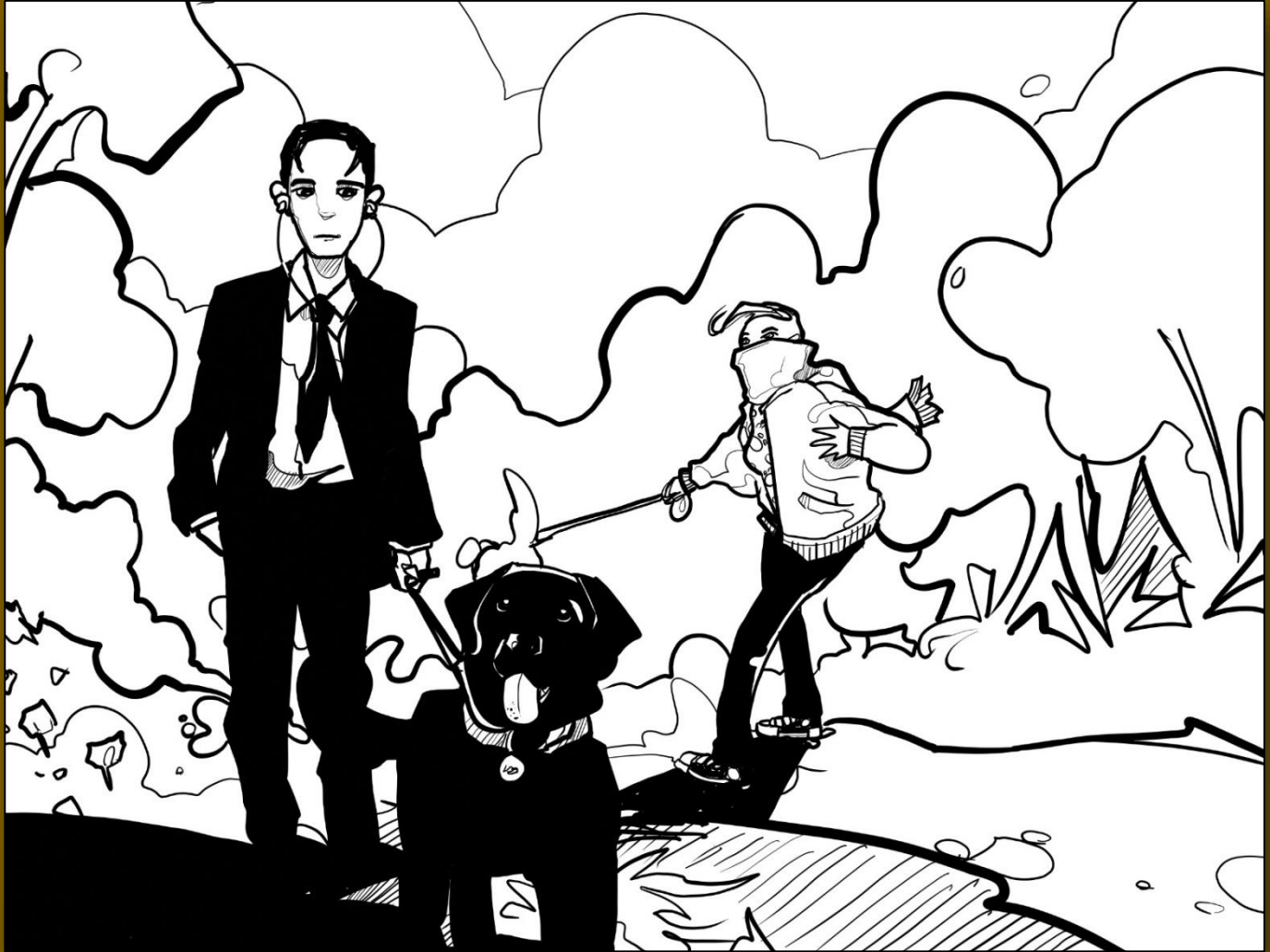


Carefully consider what, if anything, you want to backup to the Cloud



Hacker Girl Episode Two

Will you be my friend?



HACKER GIRL MANAGED 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!




GOOD.
BANKER
WAS NOT
FIRED...

GET HIS
LAPTOP
FOR ME.

BUT
HOW???

HACKER GIRL KNOWS THE CRIMINALS ARE RUTHLESS... THEY WILL HURT HER IF SHE DOESN'T DO WHAT THEY SAY.



BE HIS
FRIEND. GET
CLOSE!

I'LL NEED TO
MEET HIM...

HACKER 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...



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



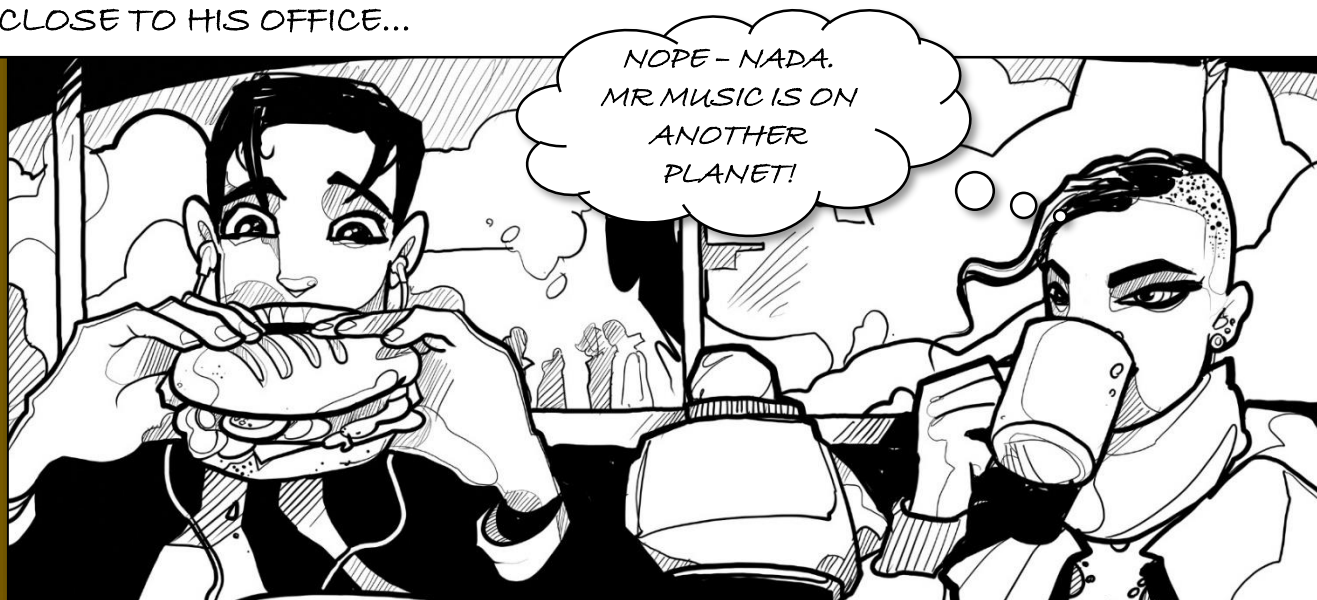
MEANWHILE, THE GANG MAKES AN OVERSEAS CALL.

HACKER 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...



BUT THE BANKER IS IN A WORLD OF HIS OWN. HE'S ONLY INTERESTED IN HIS MUSIC.

HACKER GIRL ALSO FREQUENTS THE BANKER'S FAVOURITE CAFÉ,
CLOSE TO HIS OFFICE...



THE CRIMINALS ARE STARTING TO
GROW IMPATIENT...



OH BOY...
HMMM... MUSIC.
I WONDER...



HACKER GIRL DECIDES TO TRY A
DIFFERENT APPROACH.

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



OMG...
SERIOUSLY?

A QUICK TRIP TO THE SHOPS
PRODUCES RESULTS...

THEY
ACTUALLY
STOCK
THIS?



THAT LUNCHTIME HACKER GIRL
ACCIDENTALLY DROPS THE CD...



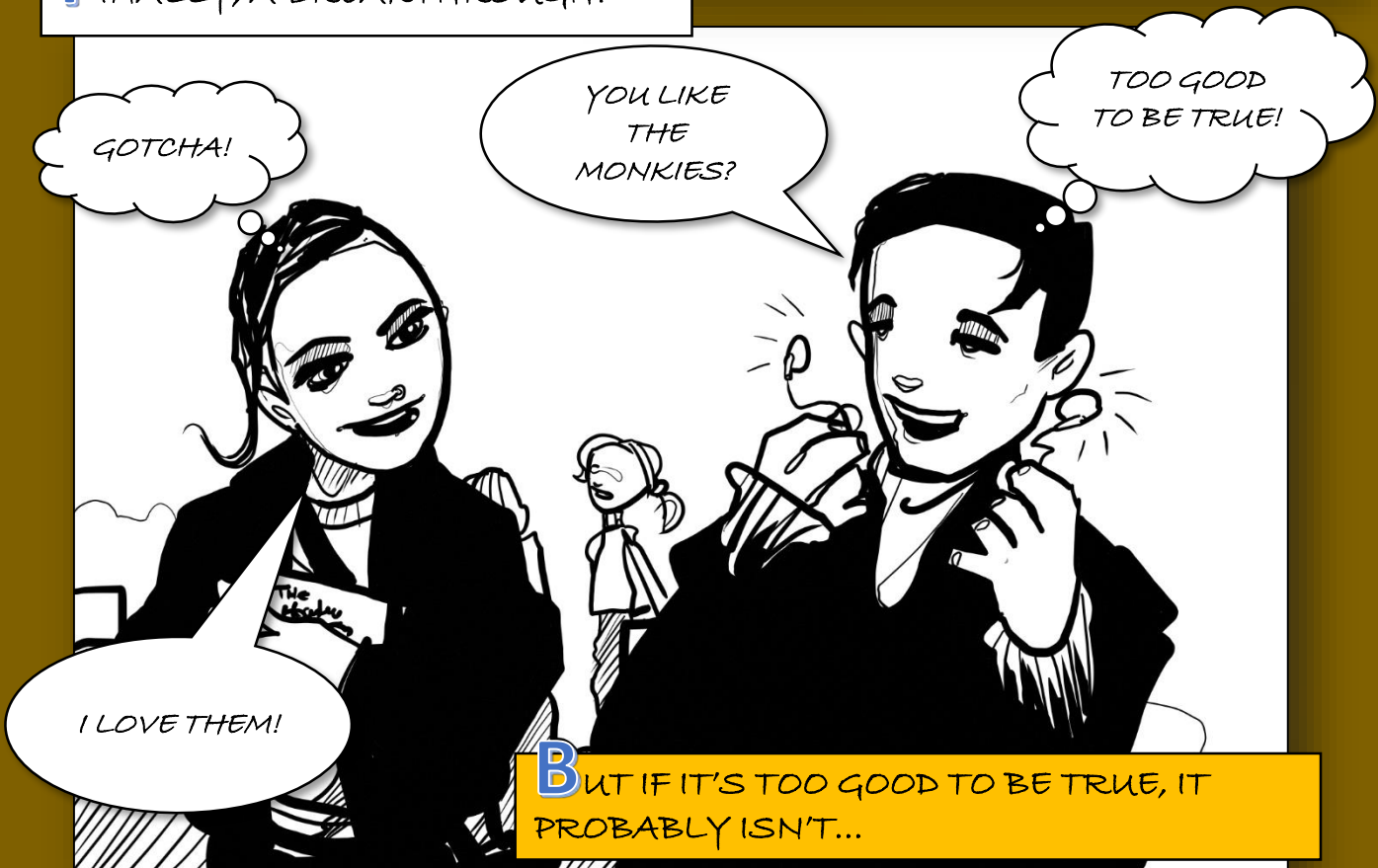
OOPS!

LET
ME...

AS THE BANKER SQUATS TO PICK UP THE CD, HE READS THE LABEL. HE FREEZES IN SURPRISE...



FINALLY, A BREAKTHROUGH!

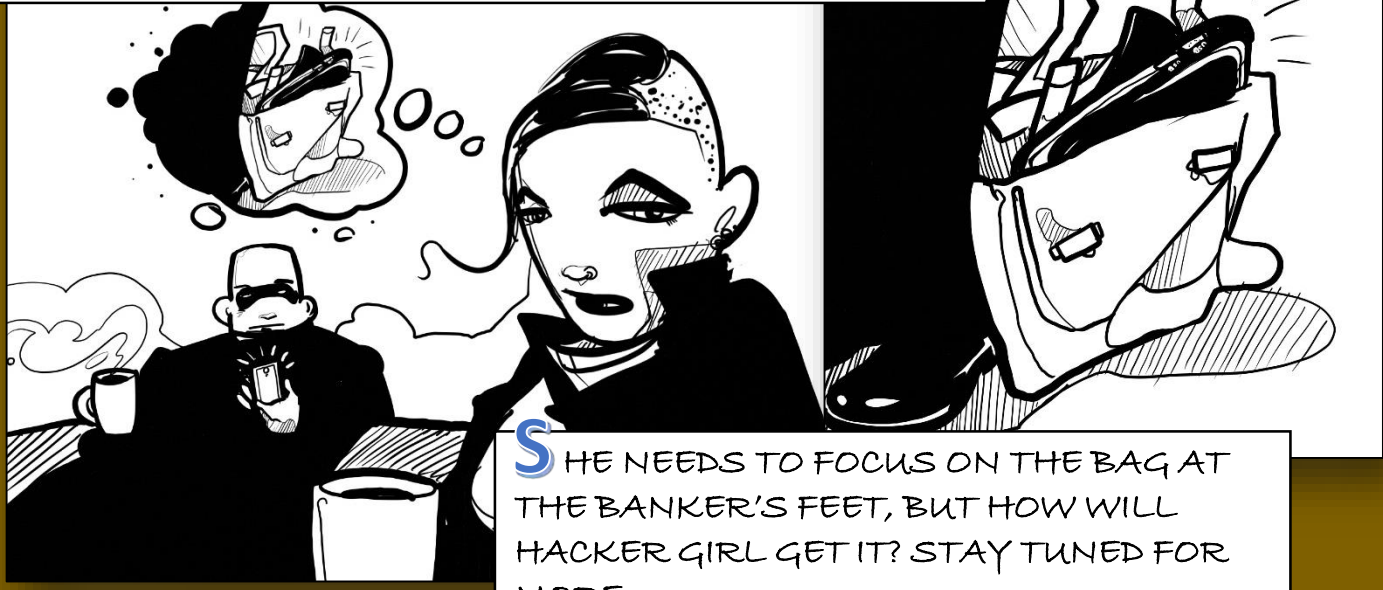


BUT IF IT'S TOO GOOD TO BE TRUE, IT PROBABLY ISN'T...

A FRIENDLY COFFEE FOLLOWS...



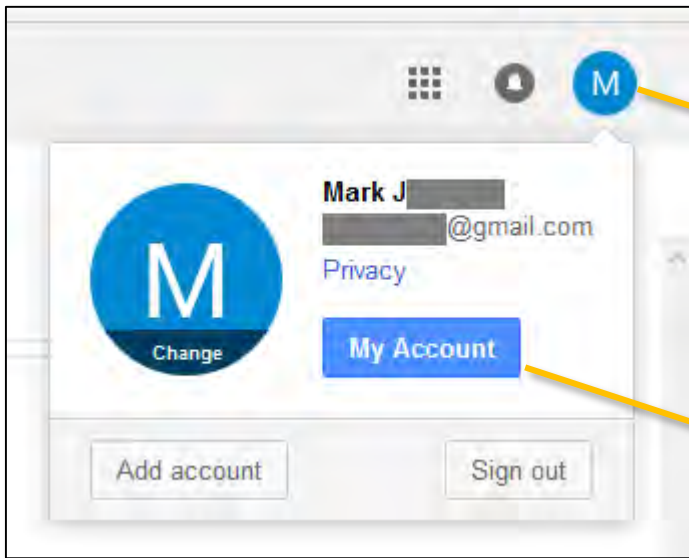
SHE IS ACTUALLY ENJOYING HERSELF, BUT HACKER GIRL KNOWS SHE'S BEING WATCHED...



Gmail 2-factor authentication

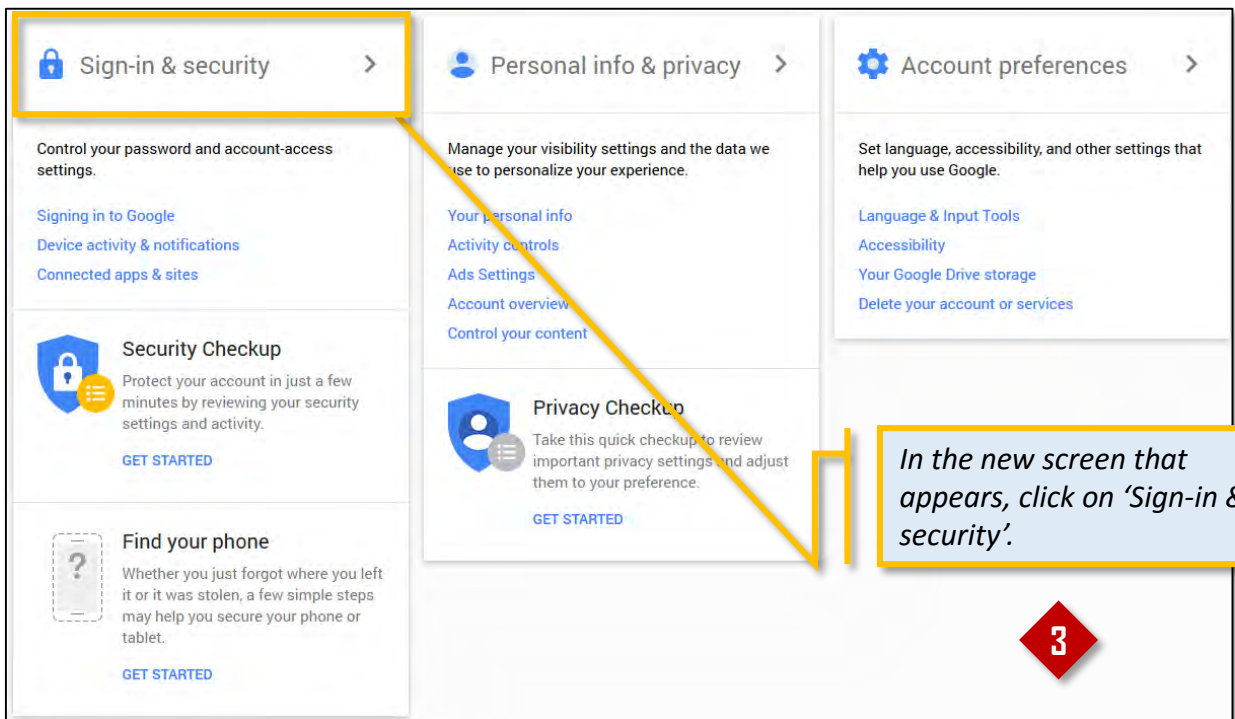


Accessing security



Click on your avatar icon in the top right corner of the screen.

Now click the 'My Account' button.



In the new screen that appears, click on 'Sign-in & security'.

3

Choosing 2-step verification ('authentication')

Password & sign-in method

Your password protects your account. You can also add a second layer of protection with 2-Step Verification, which sends a single-use code to your phone for you to enter when you sign in. So even if somebody manages to steal your password, it is not enough to get into your account.

Note: To change these settings, you will need to confirm your password.

Password Last changed: February 15, 8:58 AM >

2-Step Verification Off >

1

On the next screen that appears, click on '2-Step Verification'.



Protect your account with 2-Step Verification

Each time you sign in to your Google Account, you'll need your password and a verification code. [Learn more](#)



Add an extra layer of security

Enter your password and a unique verification code that's sent to your phone.



Keep the bad guys out

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

GET STARTED

2

Now click the 'Get Started' button.

Configure 2-step verification

Let's set up your phone

What phone number do you want to use?

+44 [redacted]

Google will use this number to send you verification codes. Don't use a Google Voice number. Message and data rates may apply.

How do you want to get codes?

Text message Phone call

Step 1 of 3 TRY IT

1 If it doesn't appear (based on your profile) enter your mobile phone number.

2 Decide whether you prefer to receive a text message (recommended) or a phone call each time you try to login.

3 Click 'Try It'.

Confirm that it works

Google just sent a text message with a verification code. Enter the code

496358

Didn't get it? [Resend](#)

BACK Step 2 of 3 NEXT

4 Enter the code you receive via SMS.

5 Click 'Next'.

Configure 2-step verification

It worked! Turn on 2-Step Verification?

Now that you've seen how it works, do you want to turn on 2-Step Verification for your Google Account [redacted]@gmail.com?

BACK Step 3 of 3 TURN ON

If successful, you will see this acceptance dialogue. Click 'Turn On' to proceed.



Finally, you will see this confirmation dialogue.

If you change your mind about 2-step validation, click here to turn it off.

2-Step Verification is ON since Jun 24, 2016 TURN OFF

Your second step

After entering your password, you'll be asked for a second verification step.

Voice or text message (Default) ⓘ

07 [redacted]

Verification codes are sent by text message.



Set up alternative second step

Set up at least one backup option so that you can still sign in if you don't have your phone with you.



Backup verification options will be listed below the confirmation text.

Snapchat



Privacy & settings



Score: 4



Added me



Add Friends



My Friends

Click here to enter Setting options

Add friends by using Snapcode

Check who has recently added you as a friend

Add friends by username, from your address book, by Snapcode or by 'nearby users'.

Click here to check your friend list

Security: Access & edit

1

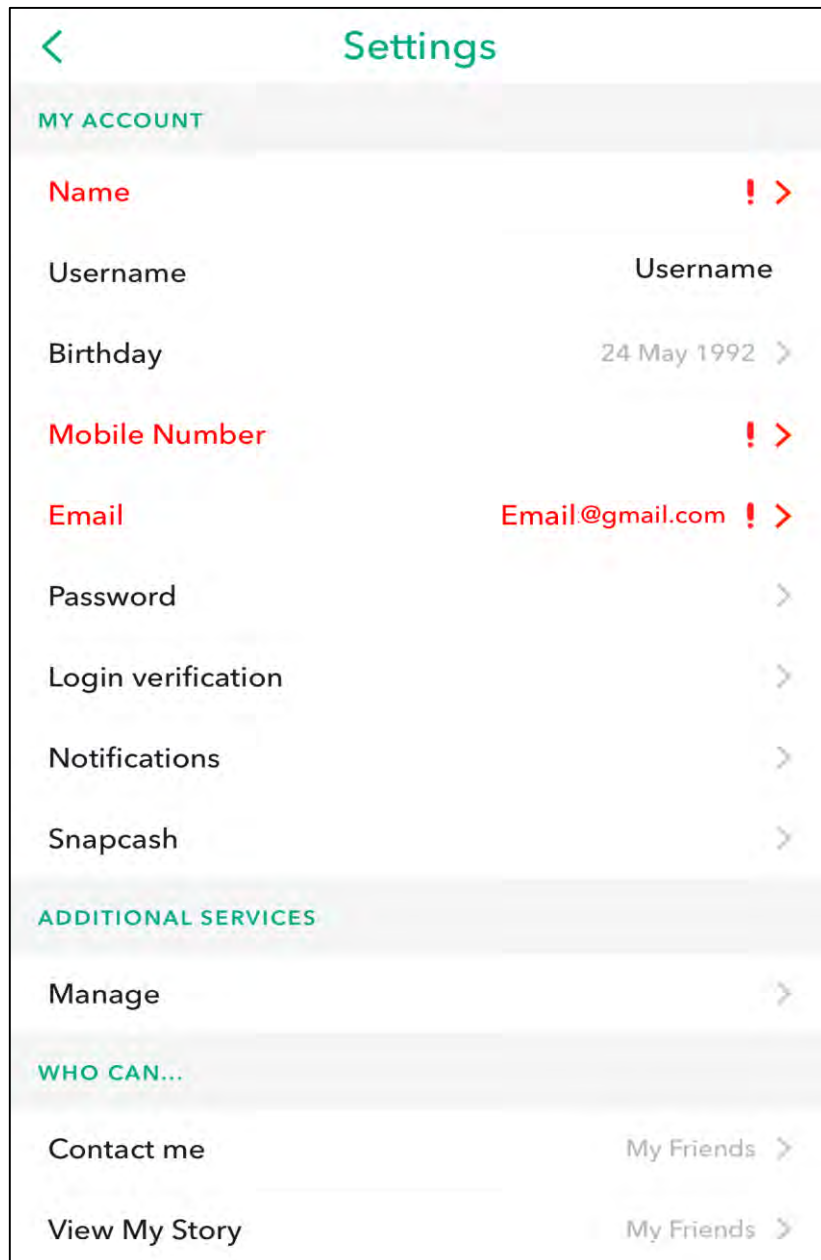
Don't give away your real name, mobile number, D.O.B or your official email address.

2

Avoid creating a Snapcash account

3

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

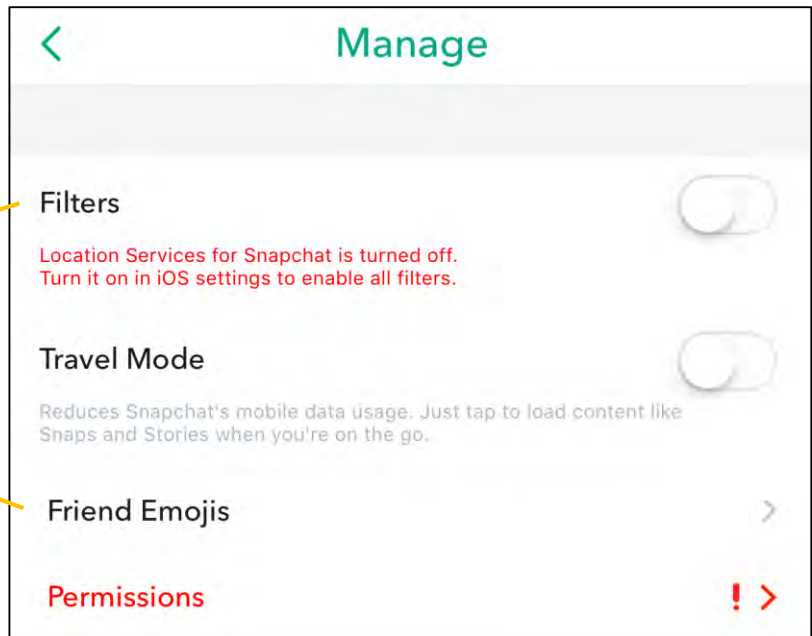


Security: Manage your privacy

1 Click the **manage** option in the **Additional services** section.

2 Switch off your location services for Snapchat (**Filters** tab).

3 View the Snapchat Emojis used in the profile.

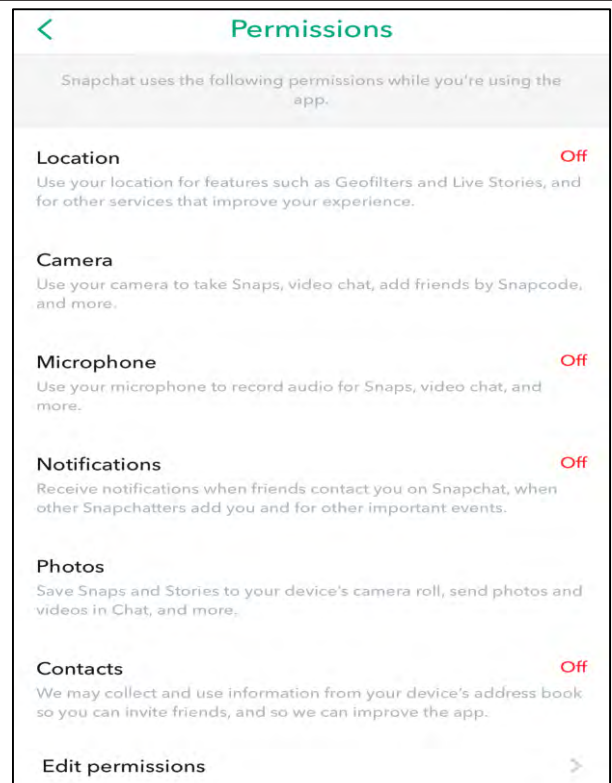


Security: Permissions

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.



Security: Account actions

ACCOUNT ACTIONS

Clear browser data

Clear Conversations

Restore purchases

Blocked

Log Out

Go back to your settings and choose the **Account Actions** tab.

Here you can clear your browser data and conversations, block selected people, or log out from the account.

Security: Deleting data

ACCOUNT ACTIONS

Clear browser data

1

Click on clear your browser data tab and you will see this pop up window.

Are you sure you want to clear browser data?

Clear

CANCEL

2

Choose the **Clear** option to delete your browser data from the app.

Credits



Conceived and commissioned by Andrew Beet, National Policing DCG Futures Group

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Hacker Girl Artwork produced on commission by Nic Brennan

Disclaimer

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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