

CryptoParty London 3

- Wednesday 12th December 2012
- @ Mozilla Spaces, 101 St Martins Lane, London
- Contact: Mark
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CryptoParty London

- “I have nothing to hide, so have nothing to fear”
 - If you have nothing to hide, is that because nobody else will trust you with anything confidential ?
 - What are your Credit Card details ?
 - Why are you wearing clothes in public ?

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair

- David Petraeus, former CIA Director



Email & Mobile phone Privacy for Lovers

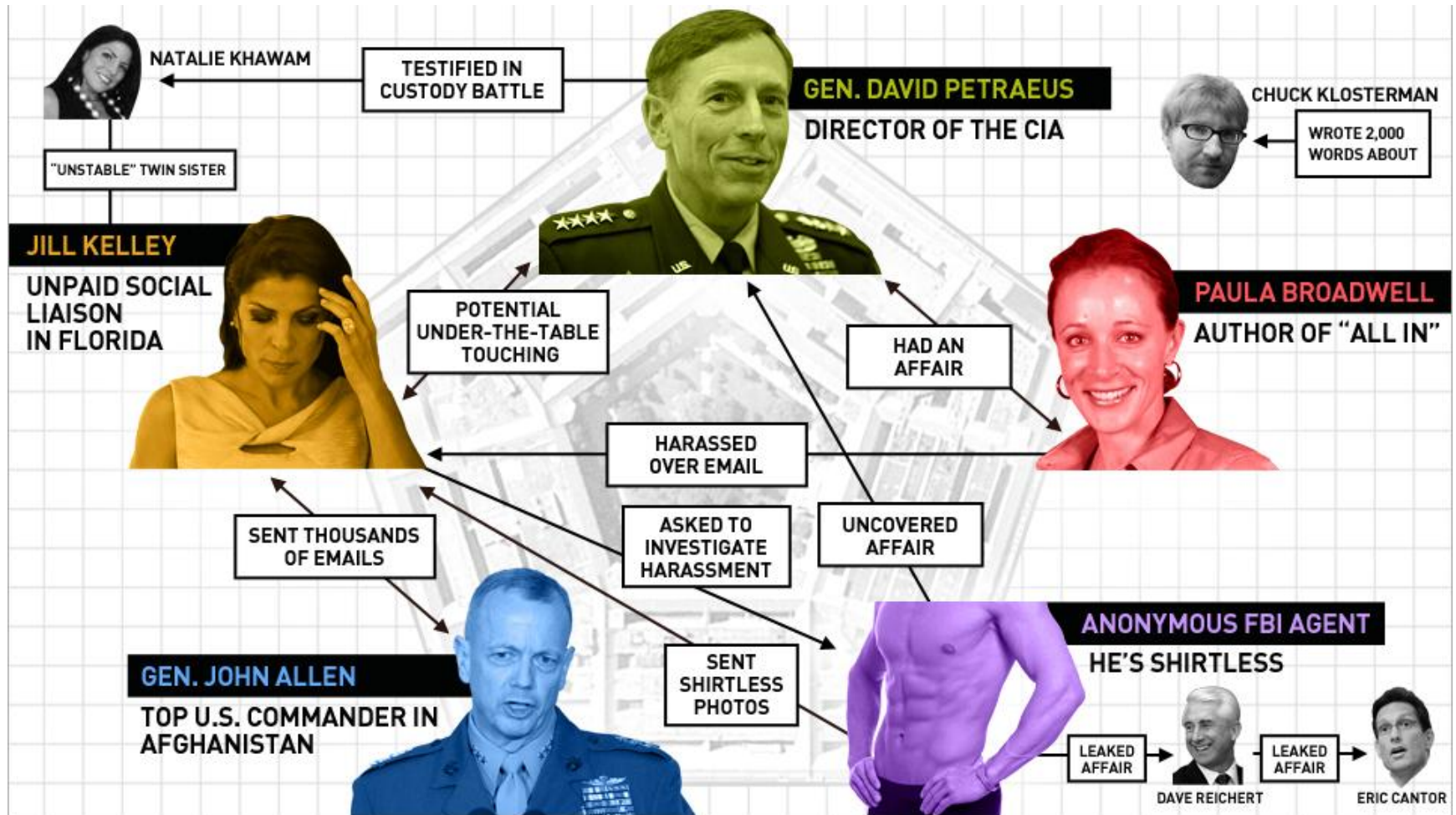
- UK lessons from the CIA Director Petraeus affair

- David Petraeus & Paula Broadwell



Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair



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- Mr. Burns from The Simpsons



Email & Mobile phone Privacy for Lovers

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- Paula Broadwell is a demonstrator / model for a sub-machine gun company



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- Natalie Khawam (twin sister of Jill Kelley), Gen. David Petraeus; Scott and Jill Kelley and Holly Petraeus



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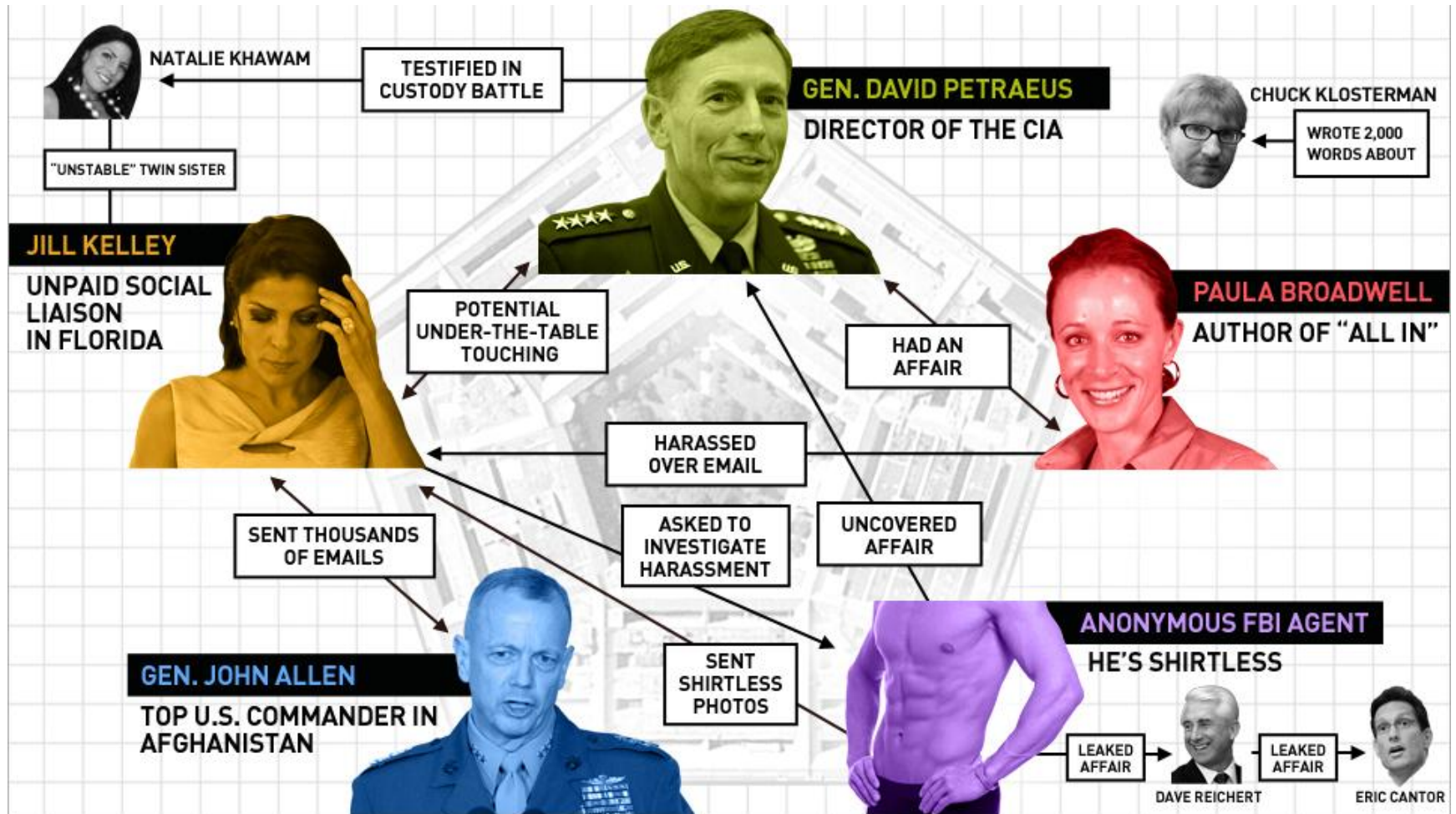
- UK lessons from the CIA Director Petraeus affair

- General John Allen



Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair



Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair
- Paula Broadwell emails Jill Kelley with “stop flirting with Petraeus” email “threats” from “anonymous” Gmail account(s)
 - N.B. in UK Protection from Harassment Act 1997 kicks in after only **2** email “threats”
- Similar / same emails sent to General Allen
- Not handled by local Tampa, Florida police
- Jill Kelley gets “shirtless” FBI agent to investigate

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair

- Frederick W. Humphries II



Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair

- Pretext that the “anonymous” emailer knew some travel / location details of Petraeus & Allen used as “national security” investigation excuse.
- Bigger FBI counter-terrorism team now involved
- Legally request “anonymous” emails from Gmail
- Presumably IP login address details are also handed over by Google

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair
- FBI starts tracking down physical locations of where the emails apparently were sent from
- Some of these seem to be WiFi or wired business suite connections from hotels.
- Hotel guest registers correlated and Paula Broadwell is identified.
 - How much was in secret via access to central hotel booking computer systems ?

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair
- No mention in US press about mobile phone Location Data.
 - In UK this would also have been checked, **without a warrant** (self authorised by the Police)
- All other emails sent from the identified locations / times would have been analysed in secret
 - Including those of other innocent hotel guests

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair
- Other Gmail and perhaps other email provider accounts used by Paula Broadwell discovered and the contents of the emails read.
 - In UK this requires a RIPA Part 1 non-judicial, warrant signed by a Secretary of State politician – only for emails actually in transit.
- FBI access the pseudo-anonymous email accounts used by Paula Broadwell and David Petraeus

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair

- Obsolete US Electronic Communications Privacy Act 2006 allows investigators to access “abandoned” stored emails older than 6 months
 - Written when email systems were not physically capable of holding much stored data due to disk costs – obviously not now true for Gmail

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair

- Plenty of US press speculation (but no hard evidence) that Broadwell and Petraeus used the old trick of sharing an email account, writing and reading draft messages, but never actually sending them as emails.
- No email send / receive log files so there is a measure of privacy
- Used by terrorists etc.

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair
- Did the Director of the CIA take any other “espionage tradecraft” precautions at all ?
- Did he at least not use his work computers (office and at home) ?
- Did the adulterous lovers (both Broadwell and Petraeus are married, but not to each other) access Gmail via mobile smartphone ?

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair

- **Just over half the people who registered for this CryptoParty did so with a gmail or googlemail address.**

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair

- Gmail has several advantages:

- Good security

- `https://` on by default
 - Resistance to Denial of Service attacks (with a few outages)
 - Will tell you if they think you are under hacking attack by foreign countries / major criminals
 - Two Factor Authentication helps prevent your account being stolen or hijacked

- Lots of “free” disk space

- Based outside of UK legal jurisdiction in USA

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair
- Gmail has some major disadvantages for lovers, whistleblowers, investigative journalists etc.
 - Two Factor Authentication by other email or mobile phone further destroys your anonymity
 - Even though in USA, they cooperate fully with UK authorities through Mutual Legal Assistance Treaty requests
 - By design they index every word you write or receive via email for advert keyword searches
 - These are available to commercial & government clients (can be de-anonymised)

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair

- **DO NOT USE GMAIL** (without extra encryption) to contact
 - Whistleblowers
 - Investigative Journalists
 - Bloggers
 - Political Activists
- Do not add Location Tracking to your Gmail by using it on an Android smartphone

Email & Mobile phone Privacy for Lovers

- UK lessons from the CIA Director Petraeus affair
 - The Electronic Frontier Foundation suggests using Hushmail via Tor
 - Swap email account details and passwords at the CryptoParty Anonymity Swap sessions

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