





First things first



- Language: German ok?
 - slides are in English, just in case

Interaction is fun!

Talk and slides are CC-BY-SA





About Me



Simon Hornbachner





About Me



- Simon Hornbachner
- Alumni of FH OÖ, SI Bachelor
- Currently looking for a job ...





About Me



- Simon Hornbachner
- Alumni of FH OÖ, SI Bachelor
- Currently looking for a job ...
- Coordinator of FSFE Group Linz



Wir beleuchten politische und gesellschaftliche Aspekte Freier Software und fördern ihre Verwendung.

Mach mit!

https://wiki.fsfe.org/groups fellowship-austria@lists.fsfe.org







- ...is not about
 - Political issues behind mass surveillance





- ...is not about
 - Political issues behind mass surveillance
 - Conspiracy theories





- ...is not about
 - Political issues behind mass surveillance
 - Conspiracy theories

→ Happy to discuss this issues afterwards





- …is about
 - Providing an overview over NSA/GCHQ mass surveillance programs





- ...is about
 - Providing an overview over NSA/GCHQ mass surveillance programs
 - Taking a look at the technology





...is about

- Providing an overview over NSA/GCHQ mass surveillance programs
- Taking a look at the technology
- Talking shortly about where to go from here







• Biggest U.S. intelligence agency









- Biggest U.S. intelligence agency
- Strict focus on overseas surveillance





NSA



- Biggest U.S. intelligence agency
- Strict focus on overseas surveillance
- Run by General Keith Alexander





NSA



- Biggest U.S. intelligence agency
- Strict focus on overseas surveillance
- Run by General Keith Alexander
- Overseen by congressional committees and Foreign Intelligence Surveillance Court







• Government Communications Headquater





GCHQ



- Government Communications Headquater
- UK's answer to NSA





GCHQ



- Government Communications Headquater
- UK's answer to NSA
- permitted to spy in the interests of national security, preventing serious crime, or defending the UK's economic interests





GCHQ

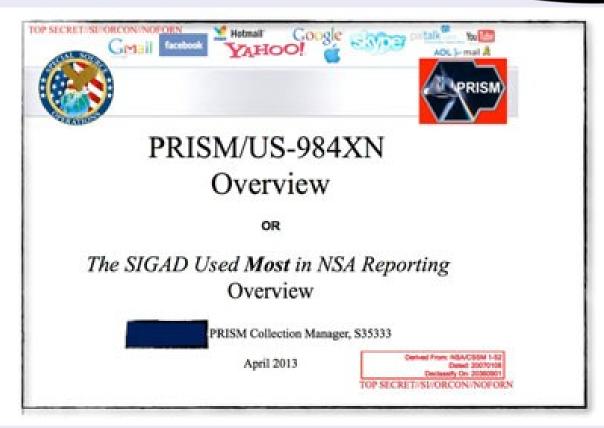


- Government Communications Headquater
- UK's answer to NSA
- permitted to spy in the interests of national security, preventing serious crime, or defending the UK's economic interests
- Answers to foreign secretary, overseen by the Intelligence and Security Committee









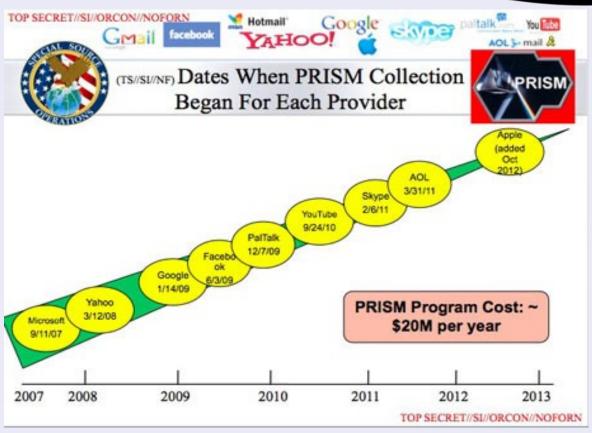




- Top secret, \$20m-a-year surveillance program
- Used to gain information on targets stored on Servers of U.S. technology firms











- PRISM (allegedly) gives access to
 - Emails
 - Chat conversations
 - Voice calls

Yet unclear, what PRISM exactly is





 Believed to be upstream monitoring of cable communications





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- Leaked documents describe it as "direct access to servers"





- Believed to be upstream monitoring of cable communications
- Leaked documents describe it as "direct access to servers"
- Upstream monitoring → different program: "Upstream"



PRISM/Upstream









 Collecting huge amounts of phone and internet communication



Upstream



- Collecting huge amounts of phone and internet communication
- Achieved by working with telecom companies like AT&T and Verizon



Upstream



- Collecting huge amounts of phone and internet communication
- Achieved by working with telecom companies like AT&T and Verizon
- Metadata obtained by Upstream is fed into a DB → MARINA



Xkeyscore





Approx. 150 sites, over 700 servers (cited from NSA slides)





 Framework to search the "Digital Network Intelligence" (DNI)



XKeyscore



- Framework to search the "Digital Network Intelligence" (DNI)
- DNI = (apparently) data stored by NSA as well as real-time monitoring of internet traffic



XKeyscore



- Framework to search the "Digital Network Intelligence" (DNI)
- DNI = (apparently) data stored by NSA as well as real-time monitoring of internet traffic
- Suggested read → guardian has full NSA presentation on XKS





Use free software





- Use free software
 - prism-break.org → freie Alternativen





- Use free software
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- Need to review our trust





- Use free software
 - prism-break.org → freie Alternativen
- Need to review our trust
 - istruecryptauditedyet.com





- Use free software
 - prism-break.org → freie Alternativen
- Need to review our trust
 - istruecryptauditedyet.com
- Use european providers
 - mykolab.com
 - autistici.org





- Use encryption where possible
 - GnuPG for E-Mail
 - OTR for IM → otr.cypherpunks.ca





- Use encryption where possible
 - GnuPG for E-Mail
 - OTR for IM → otr.cypherpunks.ca
- Best alternative: self-hosted



Reach me



- Ifodh@fsfe.org
 - GPG KeyID D61C4FCF
- Ifodh@jabber.fsfe.org
- irc.freenode.net (SSL on port 7000)
 - #owaspat, nick: Ifodh





Thank you

