

CSCI 301 Data Breach Presentation: the Ashley Madison data breach

< July – August 2015 />

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What is Ashley Madison?

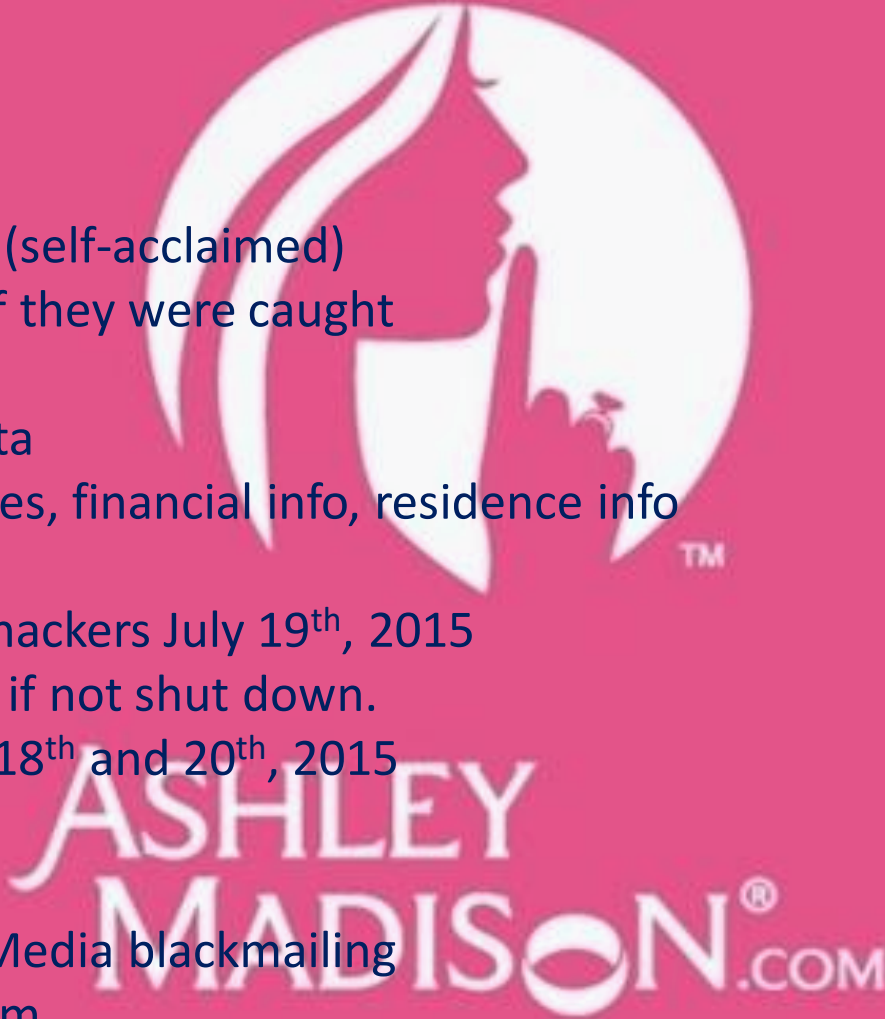
- Dating site for married people
 - “Life is short. Have an affair.”
 - Parent company Avid Life Media
- Set up
 - men pay, free for women
- Features
 - “full delete” service
 - Cost around \$20 fee
 - Completely erase profile information



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Data Breach Incident

- Who
 - “The Impact Team”
 - Very experienced (self-acclaimed)
 - Can not find out if they were caught
- What was compromised
 - 60 GB of company data
 - Includes real names, financial info, residence info
- When
 - Attack announced by hackers July 19th, 2015
 - Threat to release data if not shut down.
 - Data released August 18th and 20th, 2015
- Why
 - Hacktivist Vigilantism
 - To stop Avid Life Media blackmailing
 - “full delete” a scam



How it Occurred

- Bad security
 - “Nobody was watching”
 - VPN from internet to root on all servers
 - “Worked hard to make fully undetectable” then “found nothing to bypass”
- Access to:
 - 300 GB of data
 - Language of “dumps” suggests a database dump
 - Had password to CC processor
 - Store CC number and billing address
 - Released 60 GB



Effects

- Potentially tens of millions of site users' privacy compromised
 - 1,200 Saudi Arabia .sa emails
 - Adultery punishable by death
 - Several thousand .mil & .gov emails registered
- Hackers wrong
 - “Two wrongs don’t make a right”
 - Dumped data abused
 - Extortionists scam with data
 - Vigilantes seek public humiliation
- Loss of life
 - U.S. man
 - Louisiana pastor citing the breach
 - My husband knew that grace, but somehow forgot that it was his when he took his own life.”



Countermeasures

- Make security the main priority
- Test security
 - Penetration Testing and Vulnerability assessments
- Have an Incident Response plan
 - Include public relations part
- Code
 - Test software and source code
 - Patch all bugs, weaknesses
- User
 - How about not signing up for adultery?



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Sources:

About Ashley Madison:

<https://chicagoreader.com/reader-partners/ashley-madison-review-does-it-work-in-2021-is-it-real-we-tried-it-and-paid-for-a-membership/>

Explanation of the hack:

<https://www.forbes.com/sites/ericbasu/2015/10/26/cybersecurity-lessons-learned-from-the-ashley-madison-hack/?sh=79bb10a64c82>

Conversation with hackers:

<https://www.vice.com/en/article/bmjgqyz/ashley-madison-hackers-speak-out-nobody-was-watching>

After effects:

https://en.wikipedia.org/wiki/Ashley_Madison_data_breach#cite_note-firstlook-14

<https://krebsonsecurity.com/2022/07/a-retrospective-on-the-2015-ashley-madison-breach/>

Wife's quote:

<https://www.theguardian.com/technology/2016/feb/28/what-happened-after-ashley-madison-was-hacked>