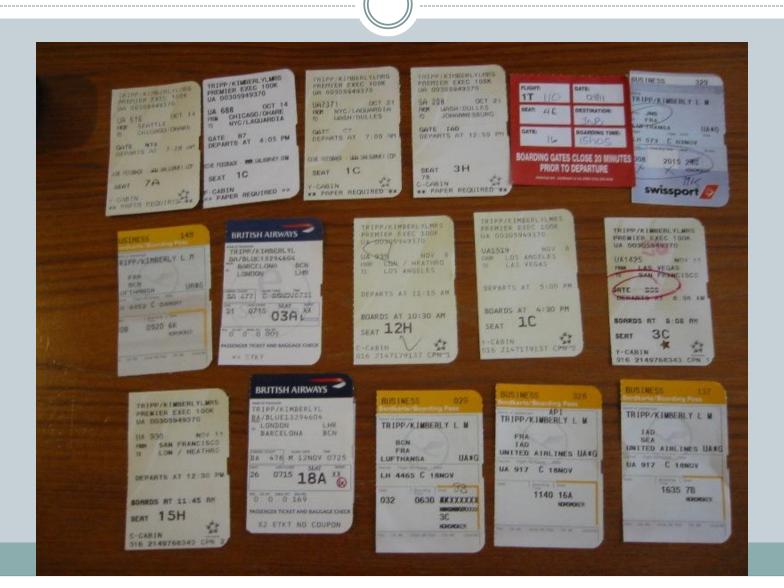
Harvesting boarding passes

28C3 – Lightning Talks – Day3

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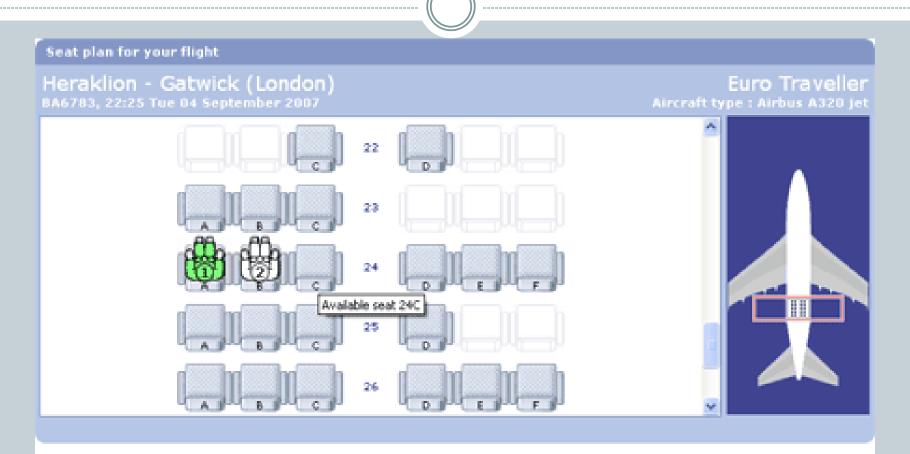
Intro



Modern concerns



Online check-in is established trend



Continue F

> Exit without changes

We can learn airline preferences

















































FTdetails – checkins, logins, other actions





Preferred hours – predictable time

VERTRE	EK DEI	PAF	RTURES
Tijd Vlucht	Bestemming	Balie	Opmerk
Time Flight	Destination	Desk	Rema
00:00 HV-000	BAGGAGE DROPOFF	05 05	TRANSAVIA
00:00 HV-001	BAGGAGE DROPOFF		TRANSAVIA
00:00 VG-000	ALL VG-FLIGHTS	01	VLM AIRL.
00:00 VG-000	BAGGAGE DROPOFF	01	VLM AIRL.
14:00 AAG-001	COVENTRY		ATLANTIQUE
14:05 HV-5053	ALICANTE	04	TRANSAVIA
14:55 HV-5023	MALAGA		TRANSAVIA
15:10 VG-287	LONDON/CITY AIRPORT	02 03	VLM AIRL.
15:45 HV-213	EINDHOVEN	08	TRANSAVIA
15:45 HV-213	TENERIFE	08	TRANSAVIA
16:20 HV-6093	FARO	04	TRANSAVIA
17:00 VG-291	LONDON/CITY AIRPORT	02 03	VLM AIRL.
Roken in het geb	ouw en op het platform is niet	toegest	aan 12:0
10 ESE	SAMSUNG		

Preferred routes/ports – predictable space



Predictable \$HOME



Track reconstruction/following

o and eventually analysis and alarm in case out-of-pattern/outof-plan actions occur

Learn travelling habits

o so that next "moves" can be predicted/evaluated and attackeractions planned accordingly, etc.

• Impersonate the person with a higher degree of credibility given level of details learned

- Learn very-near future plans
 - o every 24h window try to check-in given FT-number and last name and see what flights are scheduled for the person)

- Direct effects on victim's plans
 - o checkin cancelation
 - o checkin seat-assignment convenient to the attacker so that next-phases of social engineering can be conducted
 - group-checkin impersonation so that person is being more or less associated with a group of persons (good or bad) without their own will

- Marriage cheating cases more easily detectable, etc.
 - Useful for private-detective services
- Deliberate "leakage" of fake/misleading boarding passes by the "victim"
 - o "victim" is actually an attacker in this case
 - o so that intelligence gathering dudes will have a hard time tracking down the so called "victim" ©

Useful "google dorks"

"BOARDING PASS" "Please keep this document until the end of your trip" file

Q

About 43 results (0.17 seconds)

PPFI Internet Check-In

www.sarv.ee/ftp/henn/Kommertskool/Magistrid/Eksam.pdf

File Format: PDF/Adobe Acrobat - Quick View

BOARDING PASS. Please keep this document until the end of your trip. Sec. nr.:

KL1674: 055, KL1329: 024. Name. SAFENAGE E-ticket #. 874618.00.00.

PPFI Internet Check-In

ludde.starkast.net/dokument/Boardingpass-ludde.pdf

File Format: PDF/Adobe Acrobat - Quick View

BOARDING PASS. Please keep this document until the end of your trip. Sec. nr.:

AF1263: 36, AF7680: 71. Name. E37850000. E-ticket #. ...

Useful "google dorks"

KLM

- "BOARDING PASS" "Please keep this document until the end of your trip" filetype:pdf
- o intitle:"Internet Check-In" filetype:pdf
- o "Internet-CheckIn-Boarding-Docs.pdf"

LUFTHANSA

- o "API+Boarding+Pass"+filetype:pdf
- o (name OR nome) "etix" "Boarding Pass" filetype:pdf
- o boarding pass etix intitle:lufthansa intitle:pdf filetype:pdf

Useful "google dorks"

AMERICAN AIRLINES

o "Print+Boarding+Pass(es)"

EASYJET

o "easyJet.com Internet check-in boarding pass" filetype:pdf

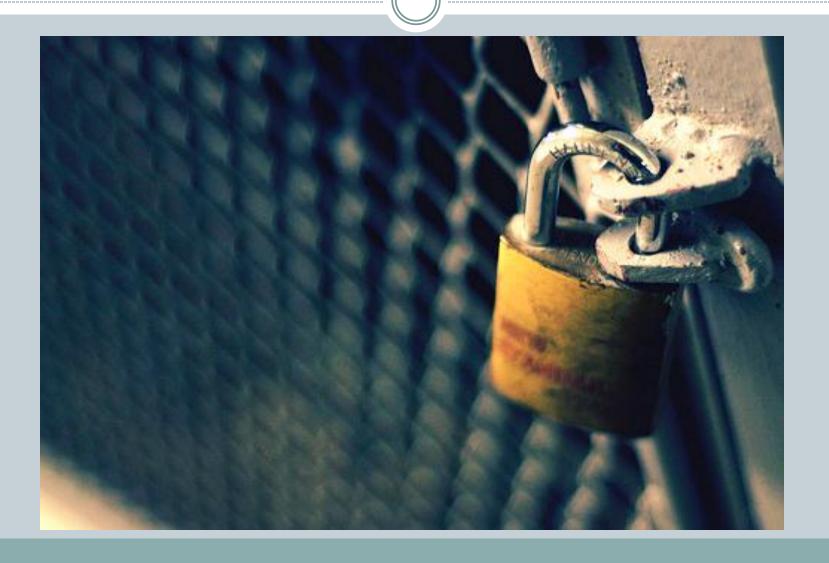
AEGEAN

o "boardingPass.pdf"

JETSTAR

o "Web Check-in Boarding Pass" filetype:pdf

Take away: secure your sensitive details



Take away: Contribute

http://www.exploit-db.com/google-dorks/



Take away: Don't stalk!





www.ncvc.org/src

Thanks

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- andreicostin.com/papers
- Harvesting boarding passes