Threatlandscape

Access: Credentials

Irfan Kanat

Department of Digitization Copenhagen Business School

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Big Question

How do they gain access?

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All Roads Lead to Information

- Credentials
 - Legitimate Credentials
 - Stolen Credentials
 - Bruteforce
- Vulnerabilities
 - Configuration
 - Bugs
- Human Element
 - Social Engineering
 - Insiders

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Credentials

- Legitimate Credentials
- Stolen Credentials
- Bruteforce

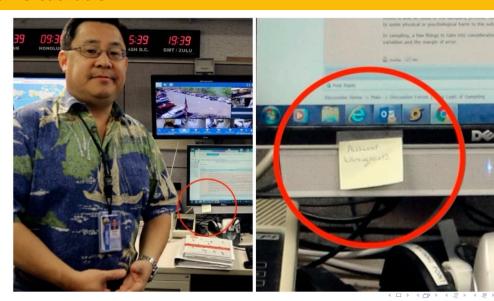


Insiders and Legitimate Credentials



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Stolen Credentials



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```
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: password
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: p@ssword
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: 12345
                                                           password: 1234567890
[80][http-get-form] host: 192.168.100.155
                                            login: admin
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: Password
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: 123456
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: 1234567
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: 12345678
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: 1g2w3e4r
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: 123
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: 1
[80][http-get-form] host: 192.168.100.155
                                            login: admin
                                                           password: 12
1 of 1 target successfully completed, 12 valid passwords found
Hydra (http://www.thc.org/thc-hydra) finished at 2017-07-27 15:28:24
```

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Some Ways to Keep Credentials Safe

Don't save your passwords in clear text.

Don't reuse the same password in multiple sites.

Use long and complex passwords.

Use a password manager.

Use multi-factor authentication.

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