Chapter 1: Introduction to Cybersecurity and the Economy

Average annualized cost of cybersecurity (USD)

\$11.7M

Percentage increase in cost of cybersecurity in a year

22.7%

Average number of security breaches each year

130

Percentage increase in average annual number of security breaches

27.4%





Please Update Your Account

Dear valued PayPal member:

It has come to out attention that your **PayPal** account information needs to be updated as part of our continuing commitment to protect your account and to reduce the instance of fraud on our website. If you could please take 5-10 minutes out of your online experience and update your personal records you will not run into any future problems with the online services.

However, failure to update your records will result in account suspension. Please update your records on or before 10 Dec. 2011.

Once you have updated your account records, your PayPal session will not be interrupted and will continue as normal.

To update your **PayPal** records click on the following link: https://www.paypal.com/cgi-bin/webscr?cmd=_login-run

PayPal, Inc. P.O. Box 45950 Omaha, NE 68145

Sincerely,

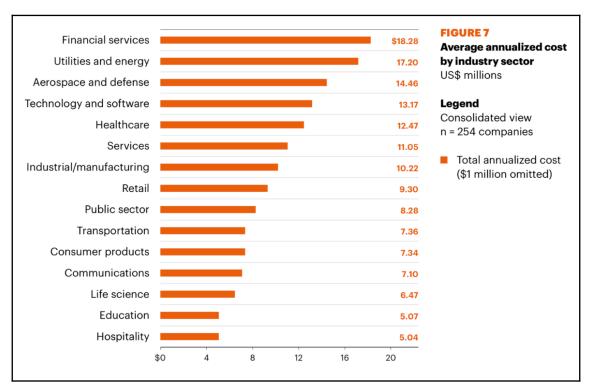
PayPal



WARNING - This is a phishing email. If you receive an email like this, do not click on any links.



Chapter 2: Cyber Crime - Who the Attackers Are





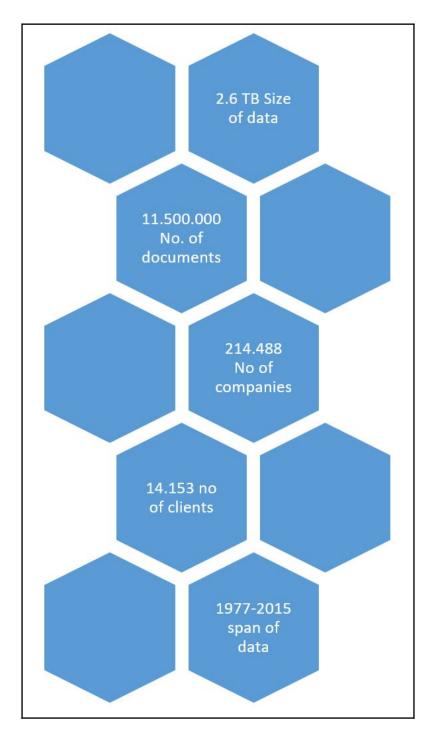


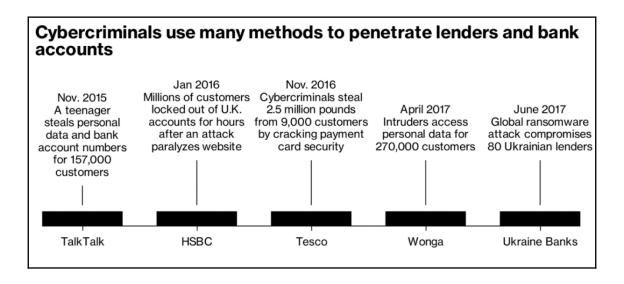


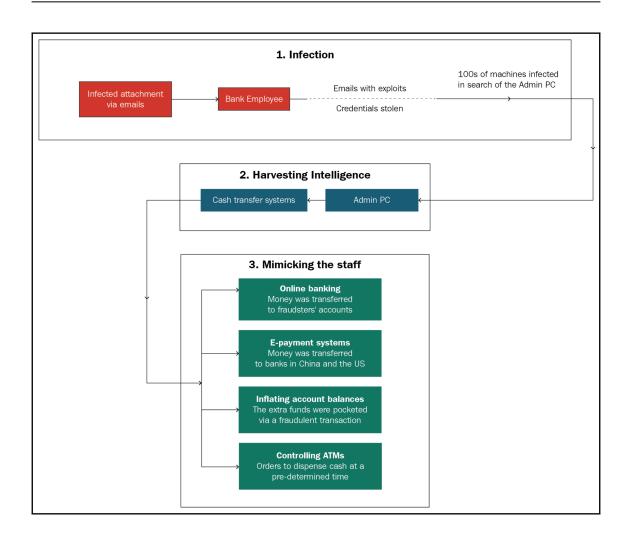


#Oplcarus Phase 4 #OpBlackOct North
Dakota U R #TangoDown for making enemies
with your people instead of serving
them.Shame on U! #OpNoDAPL









HSBC Bank (US & UK) Servers Are Down!

å ∰ July 12, 2016 ➢ News

Hello Guys, today we checked HSBC Bank security, and their website was able to be attacked!, and now we took it down!

if you are working on HSBC Bank, please contact us on https://ourmine.org/news/contact-us

and we will stop the attack and we will let you know how to protect it from people attacks!

HSBC UK: hsbc.co.uk

HSBC US: us.hsbc.com

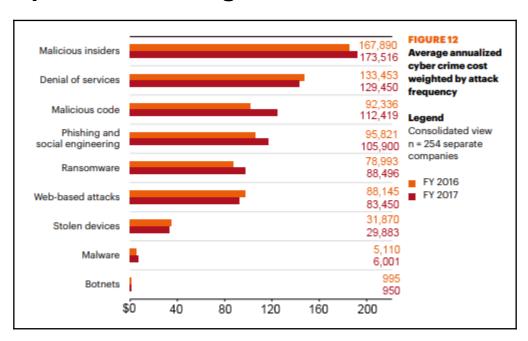
It's not just you! http://www.hsbc.co.uk looks down from here.

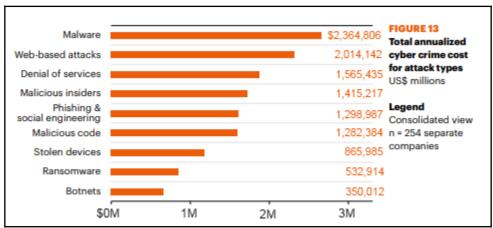
Check another site?

Tired of downtime and looking for great web hosting?

Move to SiteGround and get free migration!

Chapter 3: Counting the Costs





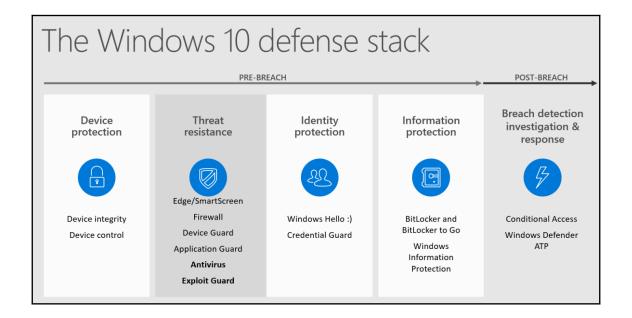
	Antivirus Software	# Reviews Rating (1-5)	# Licenses	Best Price
With ways	Kaspersky	579 Reviews 4.0 Stars	3 Licenses	\$24.90
	Bitdefender	88 Reviews 3.0 Stars	3 Licenses	\$59.99
	Norton 360	1,327 Reviews 4.0 Stars	3 Licenses	\$39.00
Subtraction of the subtraction o	BullGuard Premium	2 Reviews 3.0 Stars	1 Licenses	\$65.18
Arrabina	AVG Antivirus	29 Reviews 3.5 Stars	3 Licenses	\$35.26
	ESET NOD32	22 Reviews 4.5 Stars	3 Licenses	\$38.88

PRODUCT	PRICE	OVERALL RATING	TEST RESULTS	USER EXPERIENCE	MALWARE DETECTION & REMOVAL	DRAG ON SYSTEM RESOURCES	NUMBER OF LICENSES
Bitdefender Internet Security	\$51.99 @Bitdefe	9.9	10	9.8	100%	97%	3
Kaspersky Internet Security	\$39.99 @Kaspers	9.8	9.8	10	100%	95%	3
McAfee LiveSafe	\$99.99 @McAfee ₹	9.5	9.8	9	99%	95%	10
Avira	Check Price オ	9.4	10	8.3	99%	99%	1

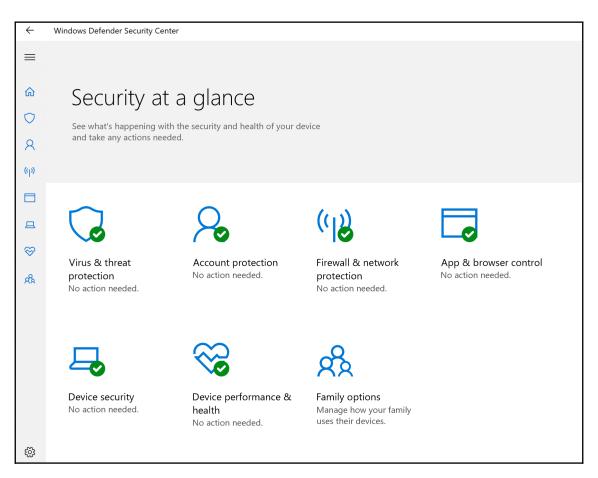
Thawte

<u>Thawte</u> offers five SSL certificate options; Thawte SSL (\$149/yr), Web Server SSL (\$249/yr), Web Server EV SSL (\$599/yr)and SGC SuperCerts (\$699) and Wildcard SSL (\$639/yr). All the certificates have 128/256 bit encryption and come with warranty ranging from 100,000 US to 500,000 USD.

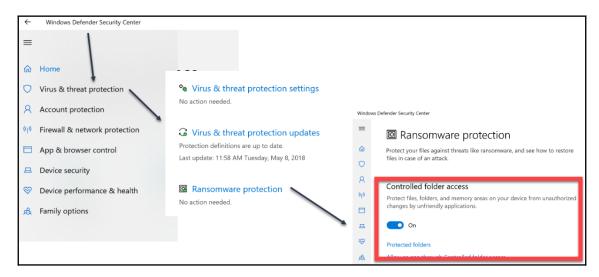
The certificates are issues between 24 to 48 hours and come with a free Thawte Site Seal. You can compare the <u>features of the SSL</u> certificates at the website.

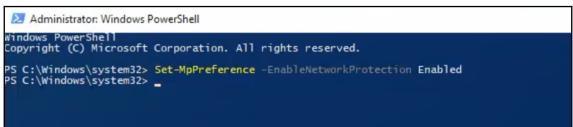


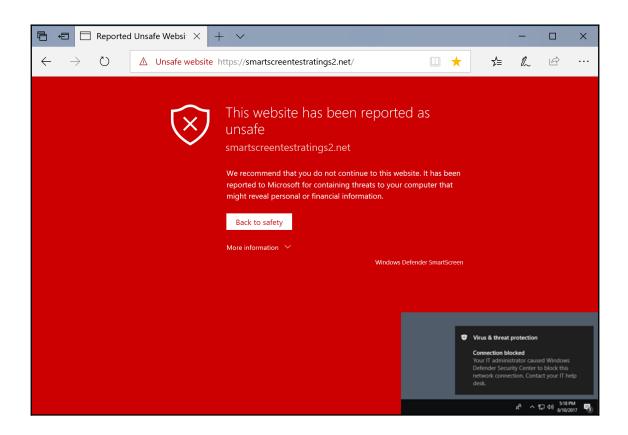
		Feature	Explanation
	0	Trusted Platform Module	Windows uses a crypto processor (TPM) to encrypt and keep security keys from attackers
	Ę	Windows-as-a-Service	Keeps OS always up to date with latest cumulative features and security to prevent exploits
S	Device rotectio	Windows Trusted Boot	Insures Windows boots and Anti-Virus software launches before any applications/malware
틆	Device Protection	UEFI Secure Boot	BIOS replacement, ensures hardware & Windows has not been tampered with before launch
ä	•	Virtualization Based Security	Containerizes key OS functions to prevent attacks like "pass the hash" - Can't find it, can't attack it
B G	2	<u>SmartScreen</u>	Prevents users from visiting blacklisted websites or executing blacklisted apps
A		Windows Firewall	Device-level PC firewall to prevent unauthorized network access to device
ES	nce rt	Windows Defender	Anti-virus software based on the world's largest global threat database
Ę	Threat Resistance	Microsoft Edge	World's most secure enterprise browser – half the vulnerabilities of other browsers
E		WD Application Guard	Tiny HW-isolated Windows instance for Microsoft Edge to browse untrusted website (2017)
Σ		Device Guard	Only IT/Windows Store approved applications can run. Like on a phone, malware can't run
E E	Identity ®	Windows Hello	Two-factor authentication using face, fingerprint, biometric, or PIN. Confirms to website
WINDOWS 10 SECURITY FEATURES AND BENEFITS		Hello Companion Devices	Use phone, badge, or wearable, or other devices to unlock your PC with Windows Hello
10		Credential Guard	Guards your user credentials from being stolen and used on other devices on the network
SM.	4	BitLocker/Device Encryption	Locks your data on hard drive using encryption
<u>a</u>	Information Protection	BitLocker to Go	Locks you data on thumb drives or other storage devices using encryption
₹ ×		BitLocker Admin & Monitor	Ensures corporate devices are BitLocker encrypted for compliance. Stores recovery keys
		Windows Information Protection (was EDP)	Separates business vs. personal data to prevent sharing to non-business documents/apps. Wipes data off devices. Protected documents cannot be opened on unmanaged machine
	tion tion	Windows Defender Advanced Threat Protection	Global cloud-based threat intelligence service to detect, investigate, and respond to highly targeted advanced attacks on your networks - Know if you are under attack and by whom
	Brea Detect	Conditional Access	Only tamper free devices, that are compliant with your security standards can access resources

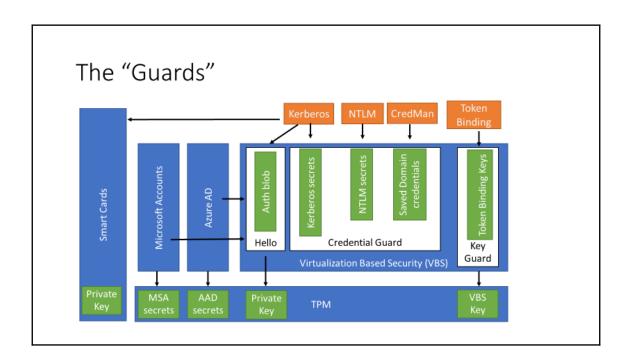


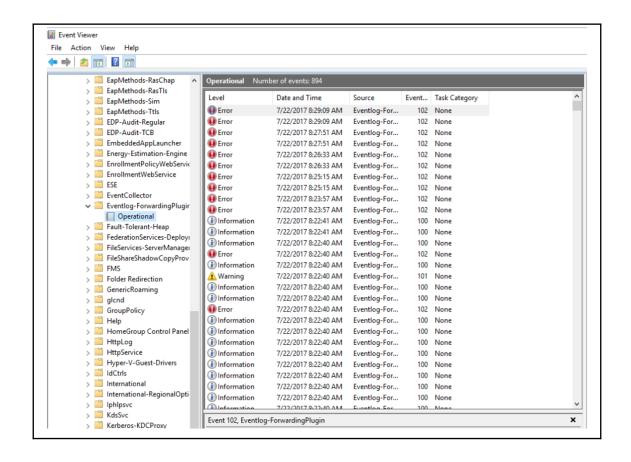
	September	October	Industry average
Protection against 0-day malware attacks, inclusive of web and e-mail threats (Real-World Testing) 202 samples used	100%	96.3%	99.0%
Detection of widespread and prevalent malware discovered in the last 4 weeks (the AV- TEST reference set) 9,797 samples used	99.5%	99.9%	98.5%

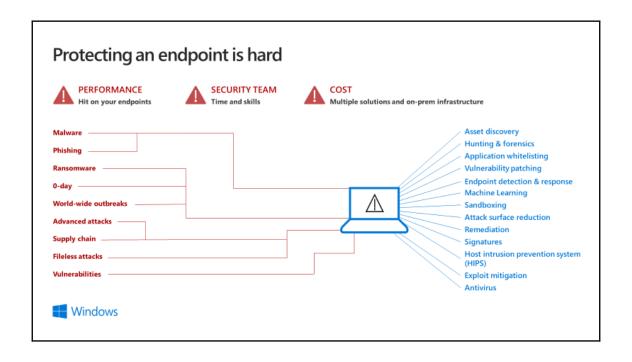


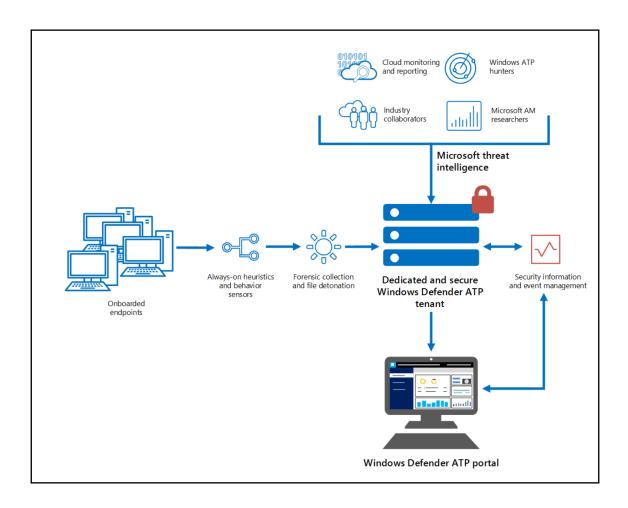




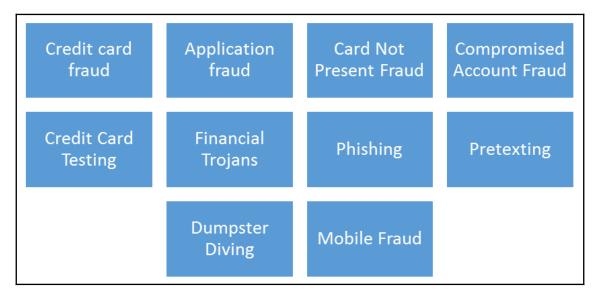


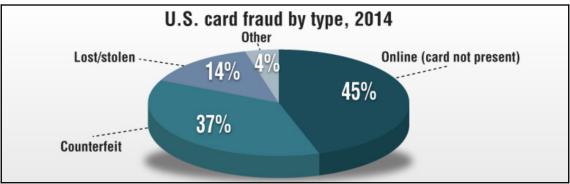


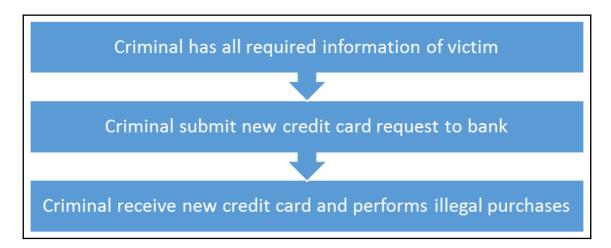


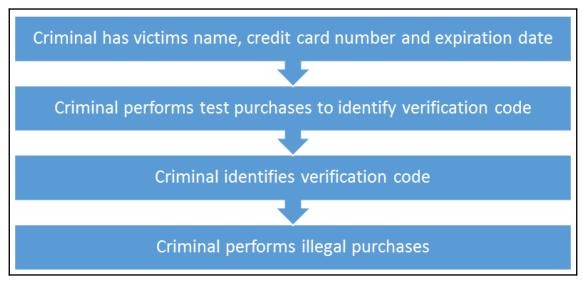


Chapter 4: The Threat Landscape









Criminal setup website similiar to victims banking portal

Criminal manipulate victim to visit malicious banking portal

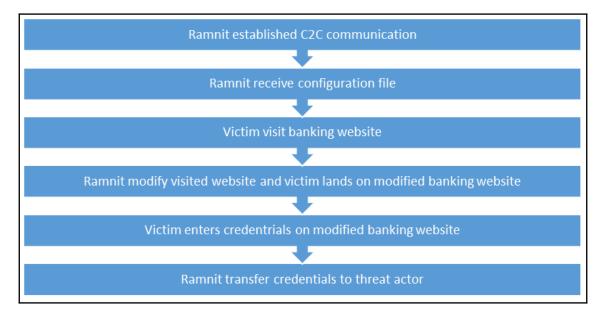
Victim enters credentials on malicious banking portal

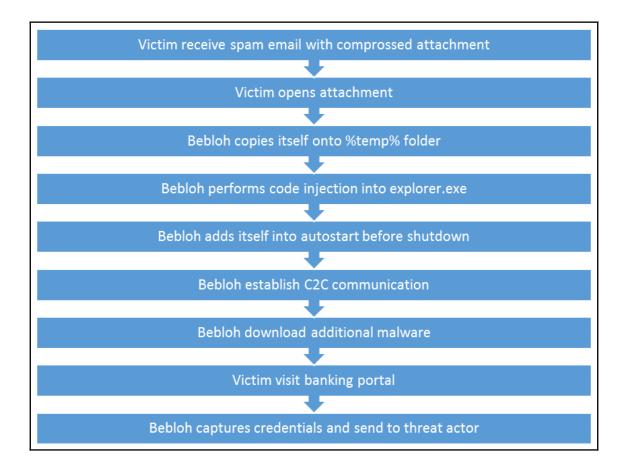
Victim get redirected to legit banking portal

Criminal gained credentials for banking portal

Criminal has the victim's name, credit card number, and expiration date

Criminal performs small value transactions





Dear

It has come our attention that our online banking portal might have been compromised. Protecting our customers identity and assets is very important to us. We therefore are reaching out to you asking you to reset your credentials immediately.

The government is supporting us during the crisis. They have helped build a secure approach to reset customer records without the need of visiting a local branch. Please therefore use the below URL to perform the data reset. Since keeping your records secure is a top priority for us you will be asked to enter the following information's:

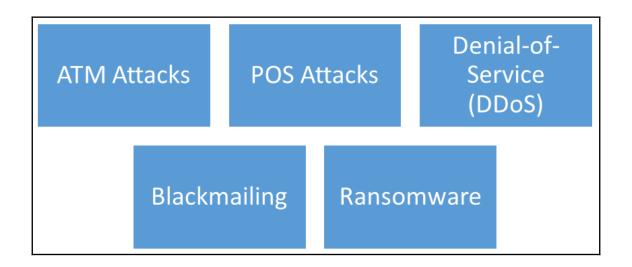
- Government ID number
- First and Last Name as it appears on Government ID
- Home address
- Phone number
- Amount and merchant of last 3 purchases
- Expected balance
- Username
- Password

Your security is important to us. We therefore ask to complete this within he next 5 business days. In case you need assistance please contact us over the secure phone line:

Secure URL:

Thank You,

Fraud Detection & Investigation



Chapter 5: Phishing, Spamming, and Scamming to Steal Data and Money

Subject: Record Update.

From: "Dept. Of Labor" <<u>records@dol.gov</u>⊠>

Date: 1/18/2016 1:57 PM To: undisclosed-recipients:;



This is an urgent request to update your employment record at the U.S Department of Labor.

<u>Update</u>

Thank you

U.S Dept. of Labor Frances Perkins Building, 200 Constitution Ave., NW, Washington, DC 20210





Hi <customer>,

This is a follow-up regarding your package delivery:

• Tracking Number: Op2uYq5RIho

The package contained in the above-mentioned shipment was not accepted at the destination address. Please contact your local UPS office and provide the printed delivery sticker, included in this email.

Please note that in case of a failure to contact your local UPS office within 21 days the parcel will be returned to sender.

Thanks so much for shipping with UPS.



Get the UPS My Choice app for Facebook



Download the UPS mobile app

PayPal

We need your help

Your account has been suspended, as an error was detected in your informations. The reason for the error is not certain, but for security reasons, we have suspended your account temporarily

We need you to update your informations for further use of your PayPal account.

Update your information

You are currently made disabled of :



Adding a payment method

Adding a billing address

Sending payment Accepting payment

Please do not reply to this email. We are unable to respond to inquiries sent to this address. For immediate answers to your questions, visit our Help Center by clicking "Help" located on any PayPal page or email.

Copyright @ 2016 PayPal, Inc. All rights reserved. PayPal is located at 2211 N. First St., San Jose, CA 95131.



We couldn't verify your recent transaction

Dear Client.

We just wanted to confirm that you've changed your password. If you didn't make this change, please check information in here. It's important that you let us know because it helps us prevent unauthorised persons from accessing the PayPal network and your account information.

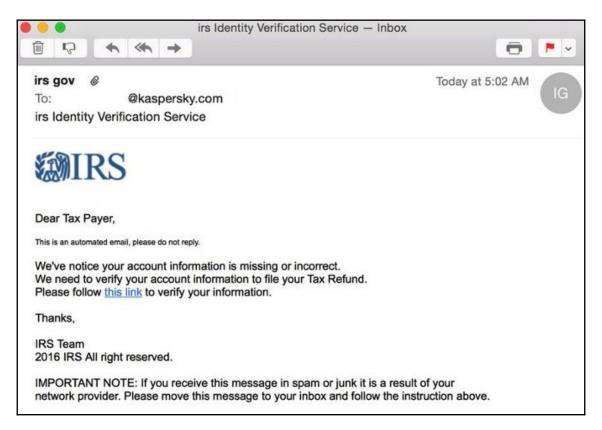
We've noticed some changes to your unsual selling activities and will need some more information about your recent sales.

Verify Information Now

Thank you for your understanding and cooperation. If you need further assistance, please click Contact at the bottom of any PayPal page.

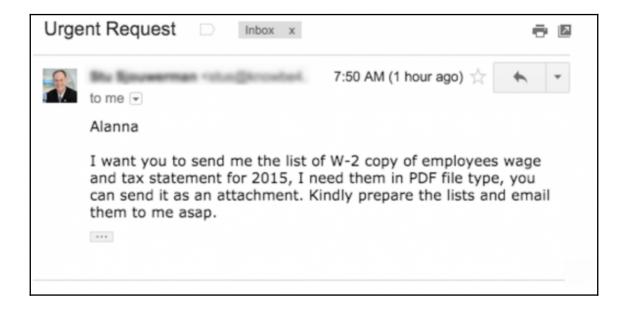
Sincerely,

PayPal

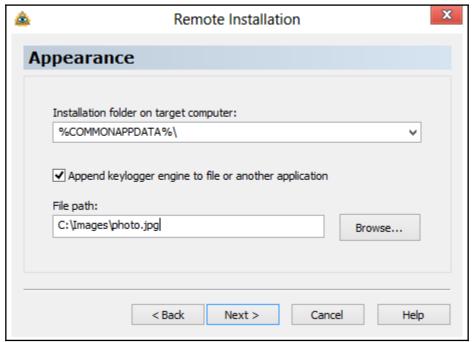


Scott To: Reply-To: Urgent Hello Stuart, Have you got a minute? I am currently tied up in a meeting. We need to facilitate a wire transfer to Indonesia for payment of an invoice Peter needs us to pay for today. Let me know so I can pass across further information to you. Thanks. Regards, Scott Sent from my iPhone

 Forwarded message --From: Doug Williams < chrispid@t-online.de> Date: Wed, Apr 13, 2016 at 11:47 AM Subject: Invoice for Lehigh University; Attention: Controller This is a private message for the Controller, Lehigh University. If it is not you, please ignore and discard it. Hi John Gasdaska, Since we have not received a contract termination letter, I am assuming that you might have unintentionally overlooked our invoice 04/16000331799 (Unpaid). If you intend to bring to an end the account, just let us know. Be informed that early withdrawal penalties will apply. Refer to the attached document for billing information. Regards, Doug. Doug Williams Sterling Savings Bank | Accounting and Billing Team 6400 Uptown Blvd Ne, Albuquerque, New Mexico, 87110 T: 866-905-9901 | Copyright © 2016









Your phone is locked for viewing child pornography.

All your files are encrypted. Your phone is locked until payment of the fine of \$ 100.

You have 48 hours to pay the fine in case of refusal to pay all of your files will be handed over to the police.

You have 48 hours to pay the fine in case of refusal to pay all of your files will be handed over to the police.

Is your personal account, Bitcoin

1G5FiCaaLKCfEk7seMyYFpX99PXgrUqk85

for payment.

After paying the fine, your phone automatically unlocks.

Buy bitcoin.

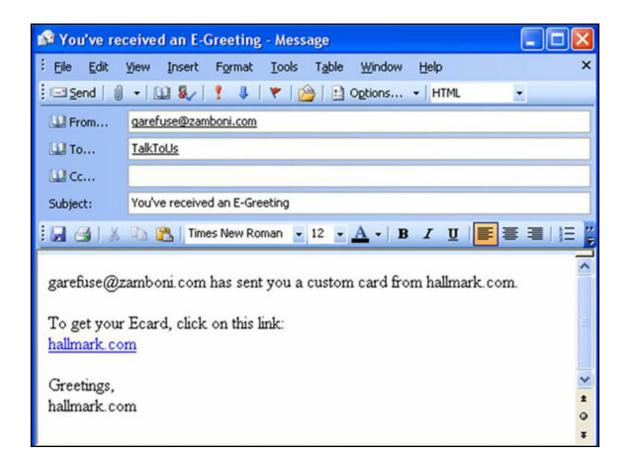
https://www.coinbase.com/

https://btc-e.com/

Help:

https://www.youtube.com/watch?v=Apk4803Eti0

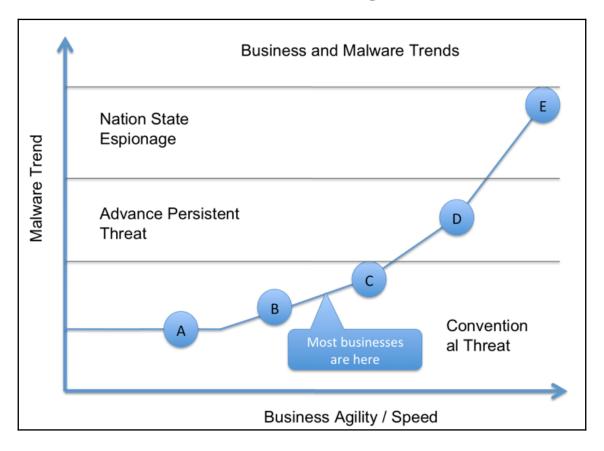
https://www.youtube.com/watch?v=C3Gx1wEcrSU

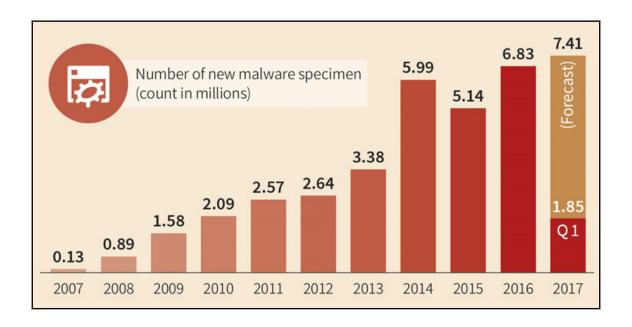


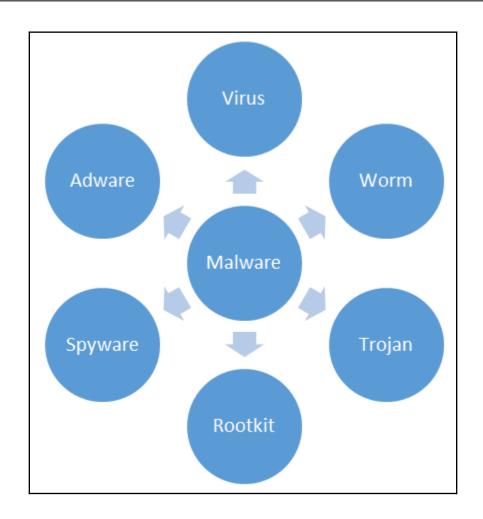
I'm reaching out because I'm experiencing a few minor errors while browsing your site. As a Digital Marketing manager, I know how frustrating things like this can be, so I wanted to reach out to see if I can help. Mainly, I'm experiencing issues loading your site on my mobile device. This is a fairly common issue, especially since this April, when Google started heavily rewarding sites with a speedy mobile user experience, and punishing those with bulky, lagging designs that aren't suited to small, vertical screens. With over 50 percent of people browsing the internet with their phones, that's a fair share of the market to consider. Based locally in Libertyville, IL, my team has over 23 years of experience developing elastic designs that can be viewed on any device. We're also Google Partners and have received many accolades throughout the years. Our first client was a little startup company called "E-bay". We would be happy to jump on a call with you to review these problems and more to help your brand get the best online visibility possible. What day this week works best for a call?	
Mainly, I'm experiencing issues loading your site on my mobile device. This is a fairly common issue, especially since this April, when Google started heavily rewarding sites with a speedy mobile user experience, and punishing those with bulky, lagging designs that aren't suited to small, vertical screens. With over 50 percent of people browsing the internet with their phones, that's a fair share of the market to consider. Based locally in Libertyville, IL, my team has over 23 years of experience developing elastic designs that can be viewed on any device. We're also Google Partners and have received many accolades throughout the years. Our first client was a little startup company called "E-bay". We would be happy to jump on a call with you to review these problems and more to help your brand get the best online visibility possible. What day this week works best for a call?	Helio,
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	Google Partners and have received many accolades throughout the years. Our first client was a little startup company called "E-bay". We would b
Regards.	What day this week works best for a call?
	Regards,

Steve K.

Chapter 6: The Malware Plague







Process of identifying as much information as possible about the target

 Process of building and/or choosing the malicious payload

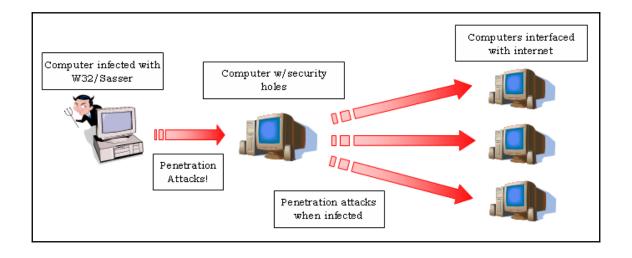
 Process of delivering the weapon to the target

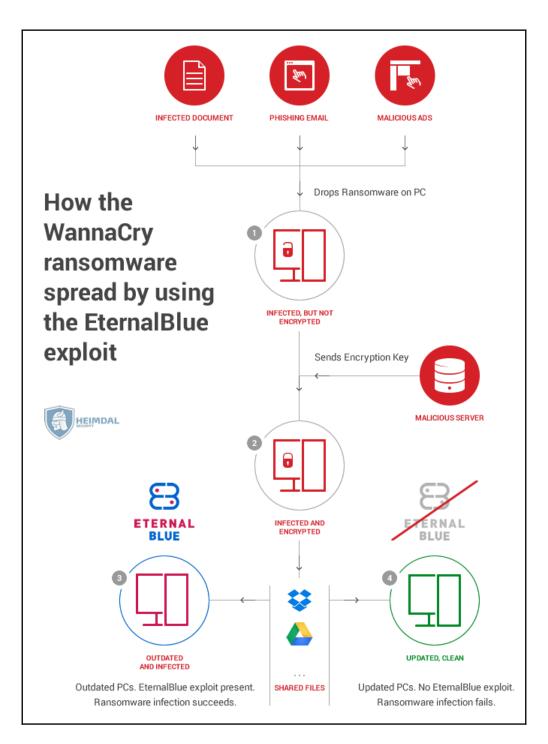
 Once target is compromised expootation is the process of gathering intelligence on compromised device

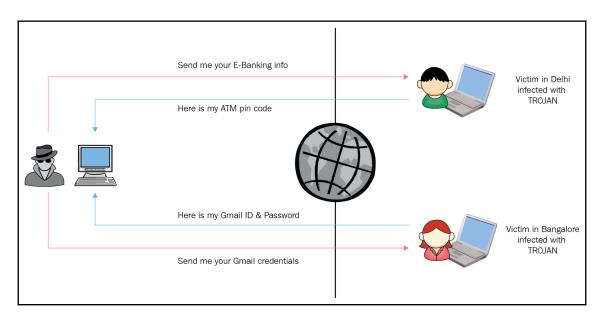
 Process of ensuring that payload / malware is persistent

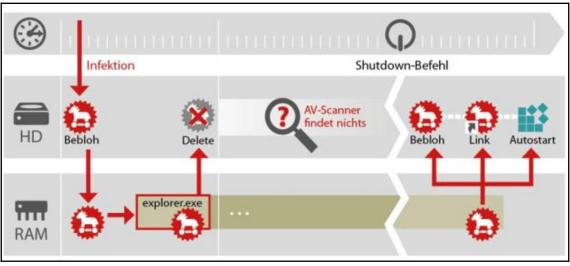
 Process of communication between comrpomised device and threat actor

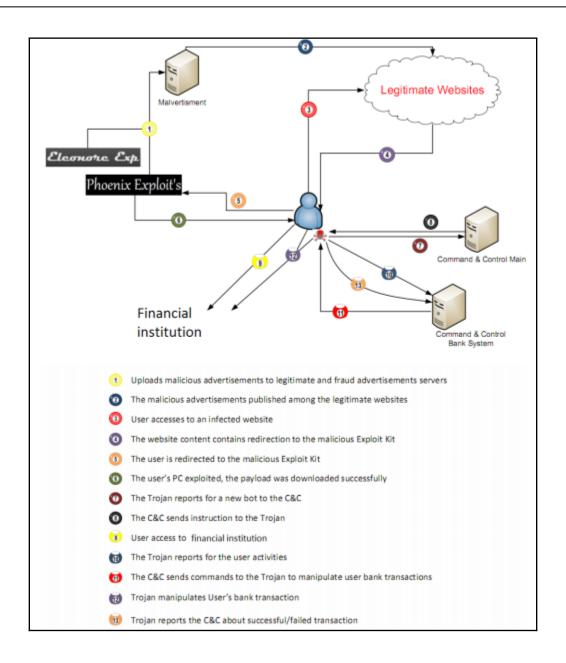
 Process of performing malicious activities such as data exfiltration

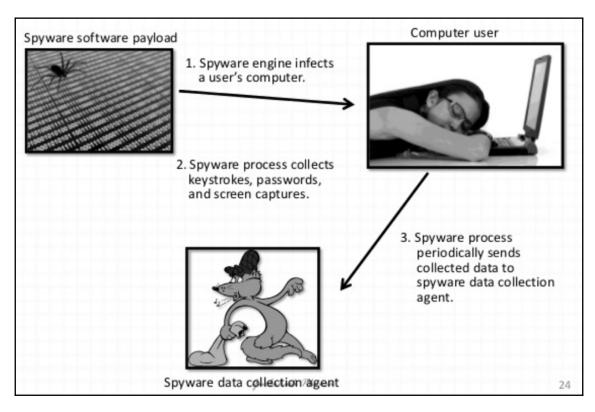


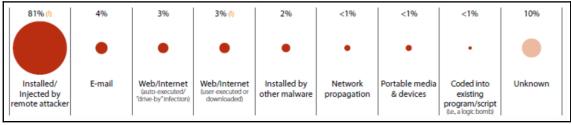




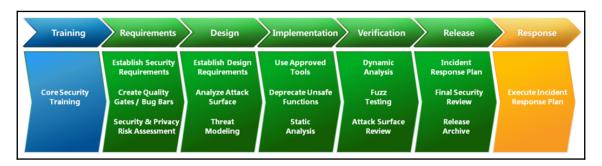


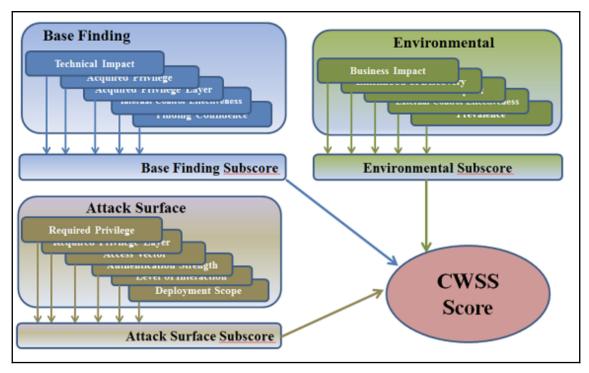


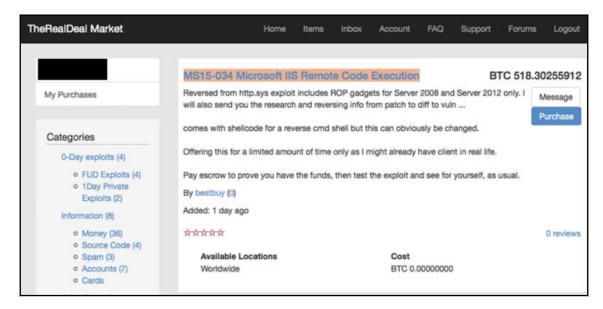


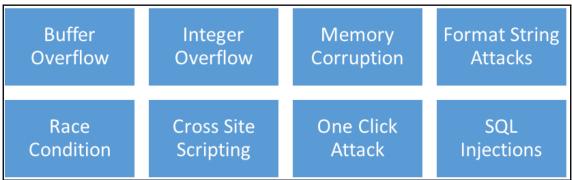


Chapter 7: Vulnerabilities and Exploits

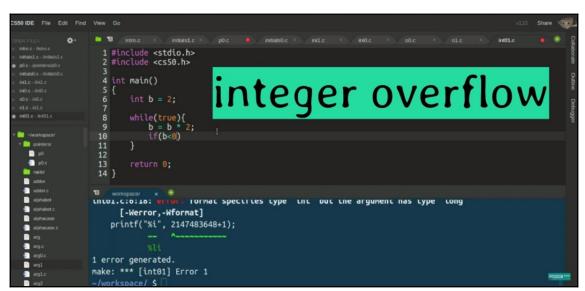




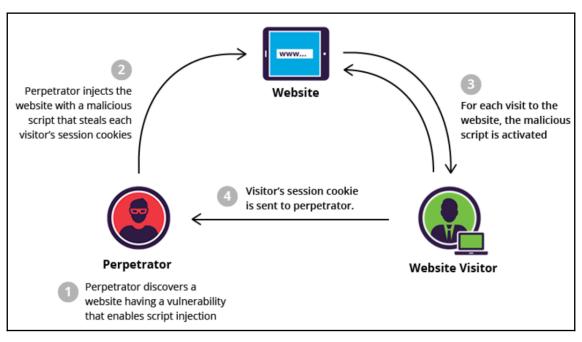


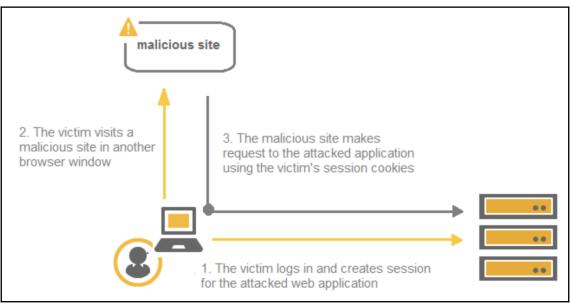


```
0022FEE0 00:<mark>₹$</mark> <mark>2</mark>50 Pÿ".
                           dest = 0022FF50
                          src = teste.00403000
UUZZFEE4
           មម4មភមមម
                          Ln = 1
0022FEE8
           00000001
0022FEEC
           004012B5 μĵ@.
                          RETURN to teste.004012B5 from teste.004017B0
           0022FED0 Db".
0022FEF0
0022FEF4
           00000002
           0022FFC4 Äÿ".
0022FEF8
           76478CD5 Õ∎G∪ m≠vcrt.76478CD5
0022FEFC
          CF1227D3 Ó'ŢÏ
FFFFFFFE ÞŸŸ
0022FF00
0022FF 04
0022FF08
           764598DA ÚJEV RETURN to msvcrt.764598DA from msvcrt.7645987B
0022FF 0C
           00000010
           002E0F5% X☆..
002E0FA8 "♬..
0022FF10
0022FF14
           0022 F38 8ÿ".
00200030 0...
0022FF18
0022FF1C
                                         STACK
0022FF20
           4F4C4548 HELO
0022FF24
           4F4C4548 HELO
           4F4C4548 HELO
0022FF28
           4F4C4548 HELO
0022FF2C
0022FF30
          4F4C4548 HELO
                                                     Buffer
0022FF34
          4F4C4548 HELO
           4F4C4548 HELO
0022FF38
           4F4C4548 HELO
0022FF3C
                                                  Överflow
0022FF40
           4F4C4548 HELO
0022FF44
           4F4C4548 HELO
0022FF48 4F4C4548 HELO EBP
0022FF4C 4F4C4548 HELO
```



```
Terminal
File Edit View Search Terminal Help
ilroy@dallas ~/vulnerable $ vi format.c
ilroy@dallas ~/vulnerable $ vi formatstr.c
ilroy@dallas ~/vulnerable $ ./formatstr %x
1064b2e
ilroy@dallas ~/vulnerable $ cat formatstr.c
include <stdio.h>
include <string.h>
include <stdlib.h>
int main(int argc, char *argv[])
        char *x=(char *)malloc(40);
        strncpy(x,argv[1],40);
        printf(x);
        printf("\n");
        return(0);
ilroy@dallas ~/vulnerable $
```







A SQL query is one way an application talks to the database.

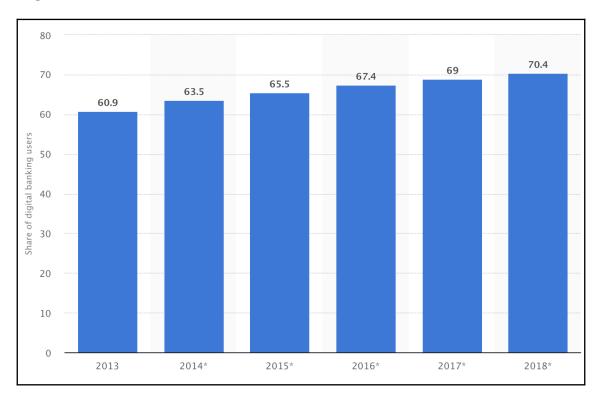


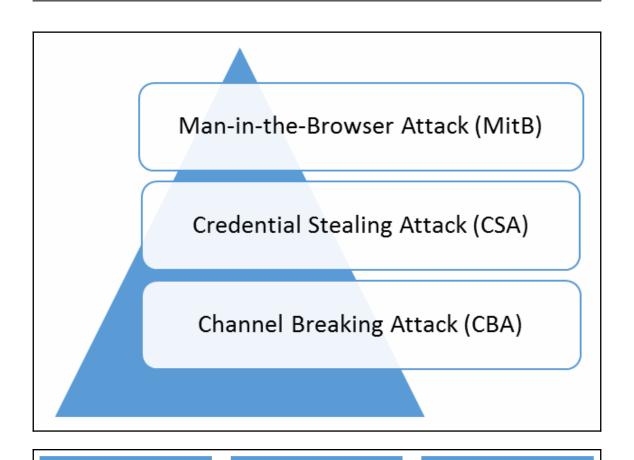
SQL injection occurs when an application fails to sanitize untrusted data (such as data in web form fields) in a database query.



An attacker can use specially-crafted SQL commands to trick the application into asking the database to execute unexpected commands.

Chapter 8: Attacking Online Banking Systems





Client side

Network Infrastructure

Server

Chapter 9: Vulnerable Networks and Services - a Gateway for Intrusion

Medusa v2.0 [http://www.foofus.net] (C) JoMo-Kun / Foofus Networks <jmk@foofus.net>

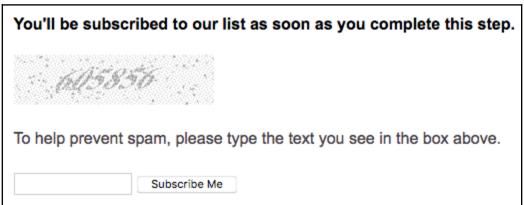


MEDUSA

Syntax: Medusa [-h host|-H file] [-u username|-U file] [-p password|-P file] [-C file] -M module [OPT] : Target hostname or IP address -H [FILE] : File containing target hostnames or IP addresses : Username to test -U [FILE] : File containing usernames to test -P [FILE] : File containing passwords to test -C [FILE] : File containing combo entries. See README for more information. -0 [FILE] : File to append log information to -e [n/s/ns] : Additional password checks ([n] No Password, [s] Password = Username)
-M [TEXT] : Name of the module to execute (without the .mod extension)
-m [TEXT] : Parameter to pass to the module. This can be passed multiple times wi : Parameter to pass to the module. This can be passed multiple times with a different parameter each time and they will all be sent to the module (i.e. -m Param1 -m Param2, etc.) : Dump all known modules : Use for non-default TCP port number Enable SSL -g [NUM] : Give up after trying to connect for NUM seconds (default 3) -r [NUM] : Sleep NUM seconds between retry attempts (default 3) -R [NUM] : Attempt NUM retries before giving up. The total number of attempts will be NUM + 1. -t [NUM] : Total number of logins to be tested concurrently [NUM] Total number of hosts to be tested concurrently

: Parallelize logins using one username per thread. The default is to process





MacBook-Pro-de-akita:scripts ak1t4\$ dcipher 09573e52f752f3f5e6250b62aa34b8a8c08a4d22 ✓ 605856
MacBook-Pro-de-akita:scripts ak1t4\$

```
ali:~# aircrack-ng -a2 -b
                                                           w /root/Desktop/Everything2016.txt /root/Desktop/-02.cap
Opening /root/Desktop/-02.cap
Reading packets, please wait...
                                      Aircrack-ng 1.2 rc4
       [08:30:03] 76108192/310022794 keys tested (2546.07 k/s)
       Time left: 1 day, 1 hour, 31 minutes, 15 seconds
                                                                          24.55%
                           KEY FOUND! [
                        : 20 2A 17 18 00 1D EF 3A 29 3F 9B A7 84 5E 2A AA FE B2 E1 29 9A 9F 75 CF 73 31 24 74 31 2B B8 FC
      Master Key
       Transient Key : 4D 76 38 A8 0F EB A7 52 4D 01 BF 87 7E DA 20 19
                          CB 0B 2C D4 3F 66 76 79 FE 8F FD C9 6A D5 AE FB 20 E6 AE F8 A3 61 90 BA 9D 48 93 B5 F0 29 1F EE
                          24 96 75 35 D6 03 68 DA 68 9D 11 FC 03 12 33 15
                        : F1 99 FA E3 55 94 25 53 3B F7 33 6A 4D B8 2B 0C
      EAPOL HMAC
     kali:~#
```

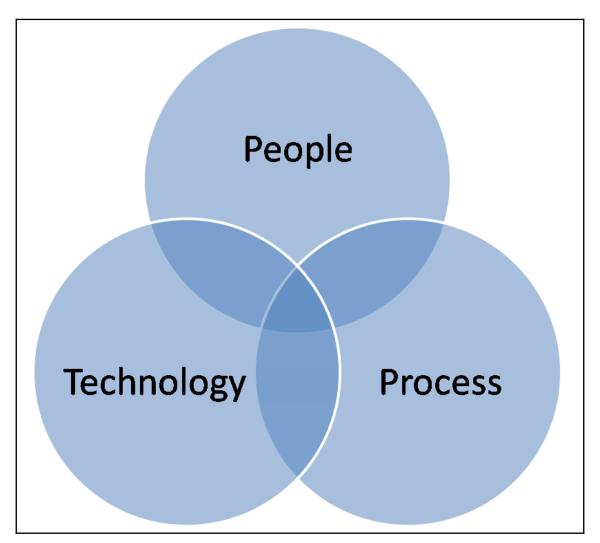
```
Kismet Sort View Windows
                                                                                     Size Bcn% Sig Clnt Manuf Cty Seen By OB --- 1 TrendwareI --- wlan0
                                                                                                                                                                  DRD1812
                                00:14:D1:5F:97:12 A 0
    TRENDnet
                                                                  1 2417
                                00:14:8F:07:2F:84 A N
00:16:B6:1B:E4:FF A 0
     andscapers
                                                                                             10% -86
                                                                                                                Cisco-Link --- wlan0
                                                                                                                Cisco-Link --- wlan0
    linksys_SES_45997
                                                                  6 2447
                                 00:1A:70:D9:BC:13 A N
                                                                                                                Cisco-Link --- wlan0
                                                                                                                                                                  Packets
    linksys
                                 00:09:58:D7:9D:B2 A N --- 2462
                                                                                                                Netgear --- wlan0
    Autogroup Probe
                                                                                                                IntelCorpo --- wlan0
    meskas
                                 00:18:01:F5:65:E1 A 0 11 2462
                                                                                             10% -87
                                                                                                                ActiontecE US wlan0
    Xu Chen
                                 00:18:01:F9:70:F0 A N
                                                                                        0В
                                                                                              0% -75
                                                                                                                ActiontecE US wlan0
                                                                                                                                                                  00:01.05
                                 00:18:01:FE:68:77 A 0 6 2437
00:24:B2:0E:E6:E2 A 0 11 2462
00:1F:33:F3:C5:4A A 0 2 2422
                                                                                                             1 ActiontecE --- wlan0
                                                                                             --- -82
                                                                                                               Netgear
Netgear
    Elina-PC-Wireless
                                                                                              0% -31
    Pickles
                                                                                17
                                                                                        0B
                                                                                                                               --- wlan0
                           Crypt Freq Pkts Size Manuf
                                                                                        DHCP Host DHCP OS
  00:13:10:35:59:CB
00:11:24:A4:6F:B3
                                                    OB Cisco-Link
708B AppleCompu
1K Cisco-Link
  00:17:AB:3D:25:98
00:13:E8:92:3F:CB
                                                    626B Nintendo
                                                       1K IntelCorpo
No GPS info (GPS not connected)
INFO: Detected new managed network "landscapers", BSSID 00:14:BF:07:2F:84, encryption no, channel 6, 54.00 mbit
ERROR: No update from GPSD in 15 seconds or more, attempting to reconnect

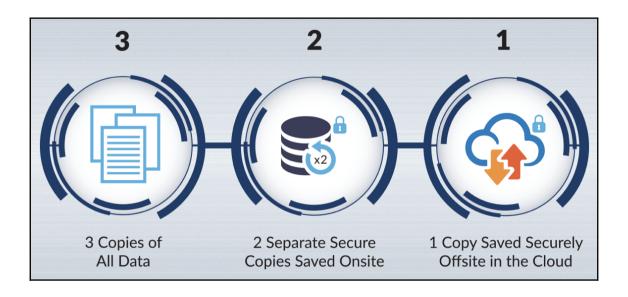
ERROR: Could not connect to the spectools server localhost:30569

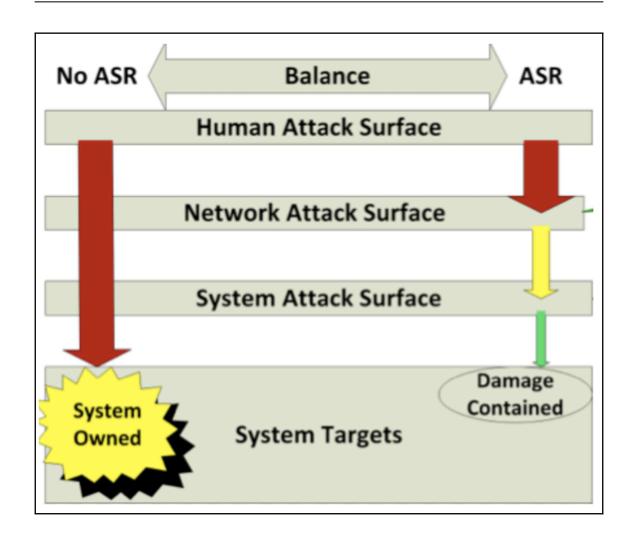
INFO: Detected new managed network "QQF93", BSSID 00:1F:90:F2:CD:C2, encryption yes, channel 1, 54.00 mbit

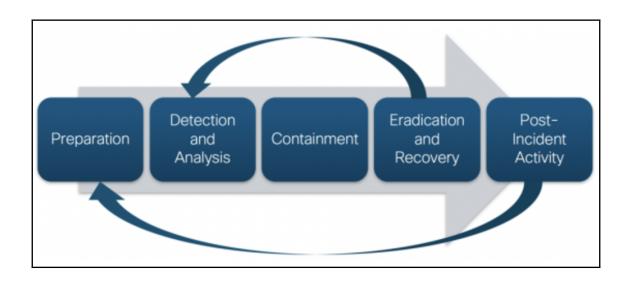
ERROR: No update from GPSD in 15 seconds or more, attempting to reconnect
                                                                                                                                                                  wlan0
```

Chapter 10: Responding to Service Disruption

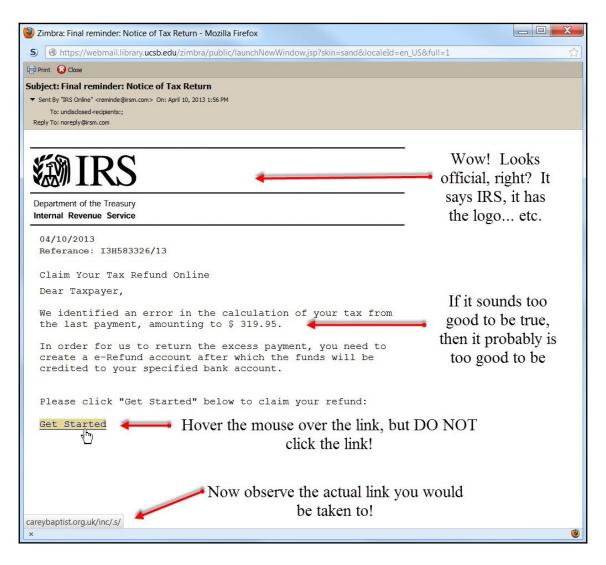


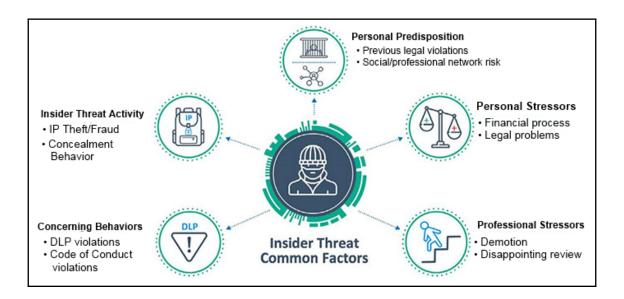






Chapter 11: The Human Problem - Governance Fail





From: John Doe < jdoe@companydomain.us>

Date: July 30, 2015 at 10:27 AM EDT

To: Jane Smith jsmith@companydomain.com

Jane,

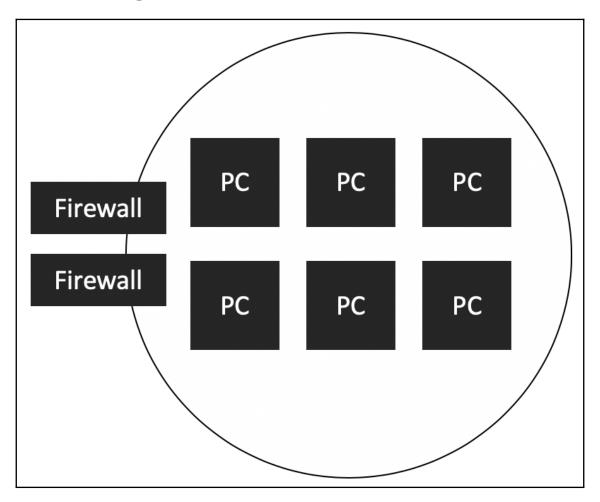
Process a wire of \$98,500 USD to the attached wiring instructions. This should be coded to Admin Expenses. Let me know when it is completed.

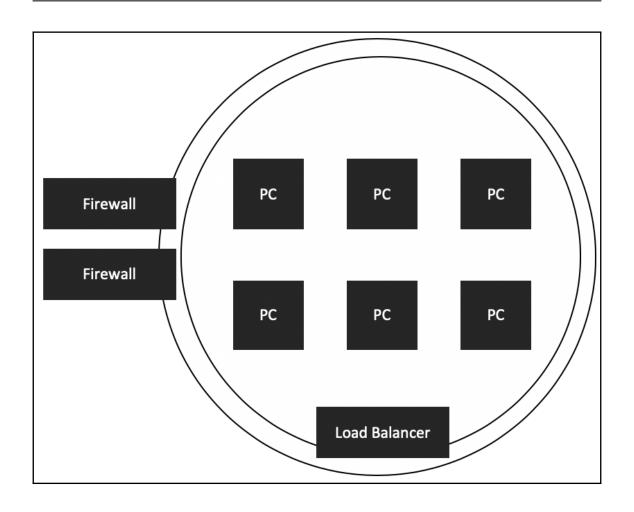
Thanks,

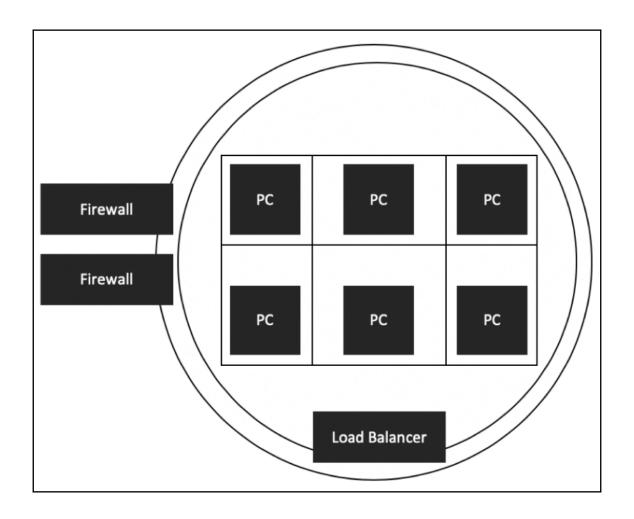
John Doe

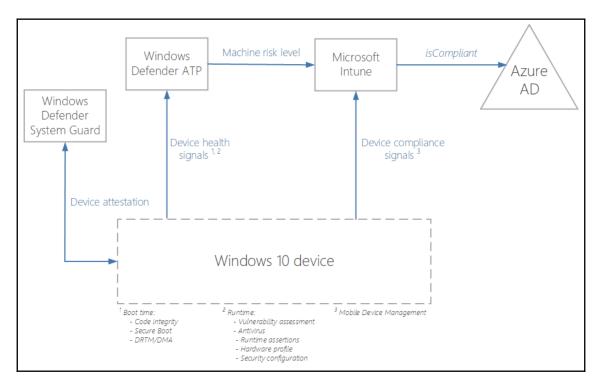
CEO, Company Domain

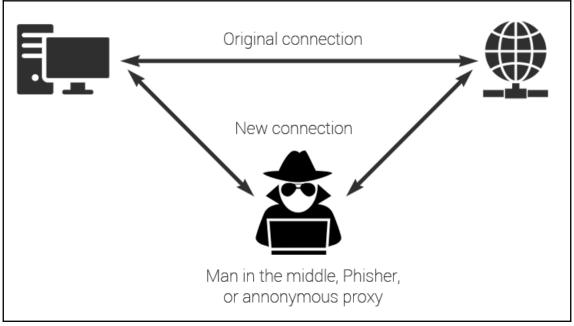
Chapter 12: Securing the Perimeter and Protecting the Assets

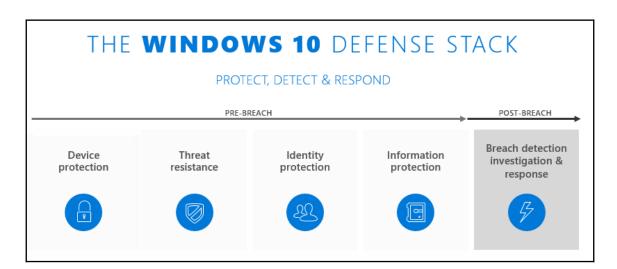


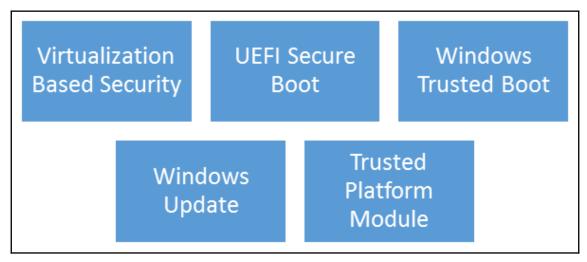


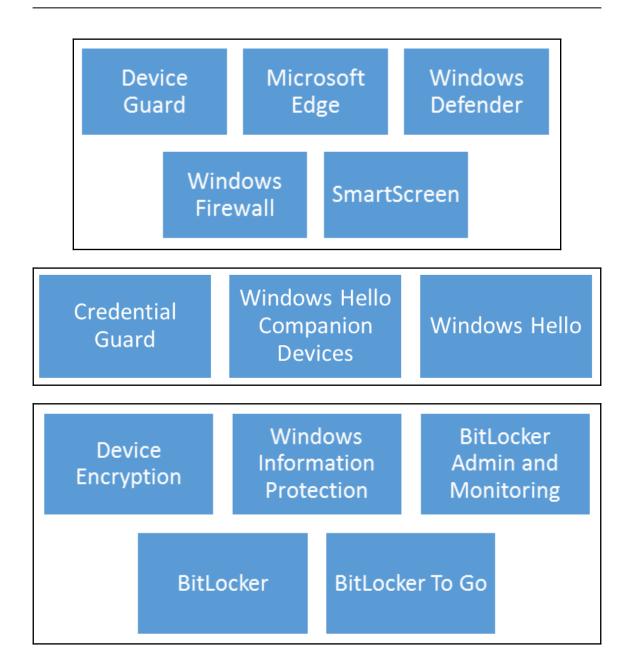










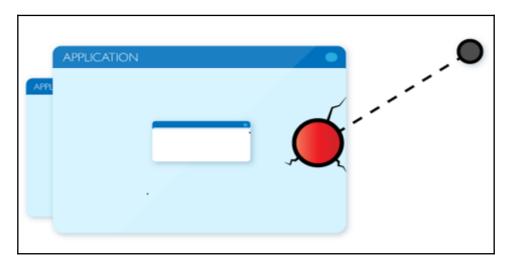


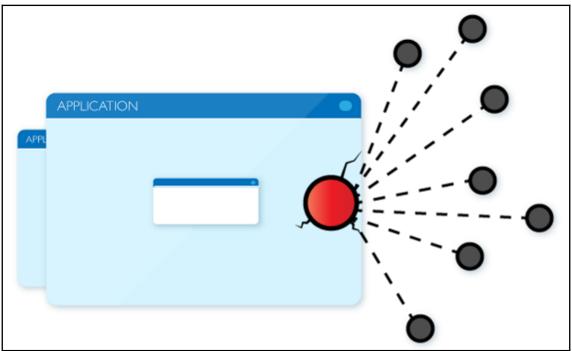
Security Management

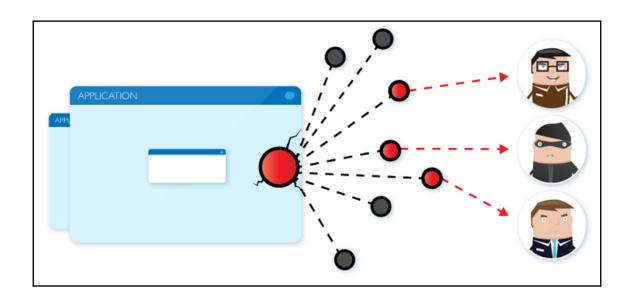
Conditional Access

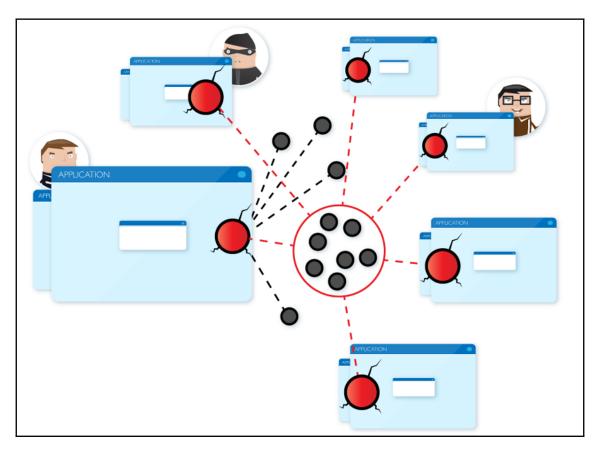
Windows Defender Advanced Threat Protection (ATP)

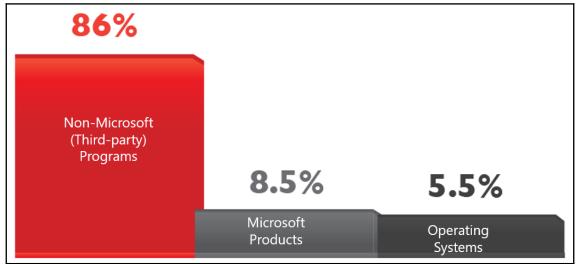
Chapter 13: Threat and Vulnerability Management

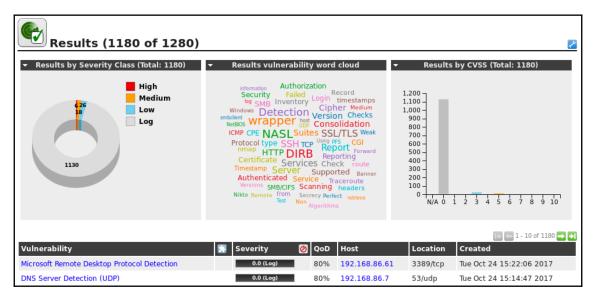




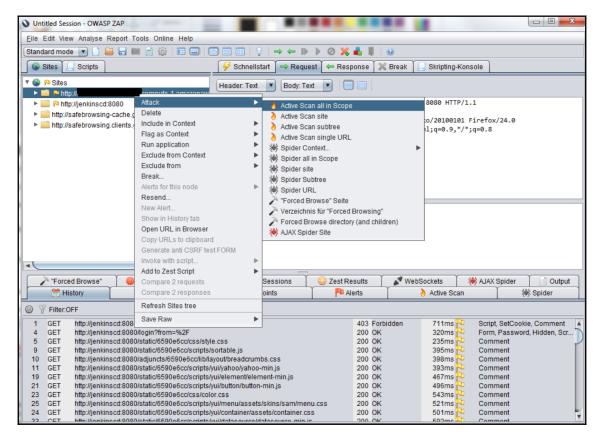


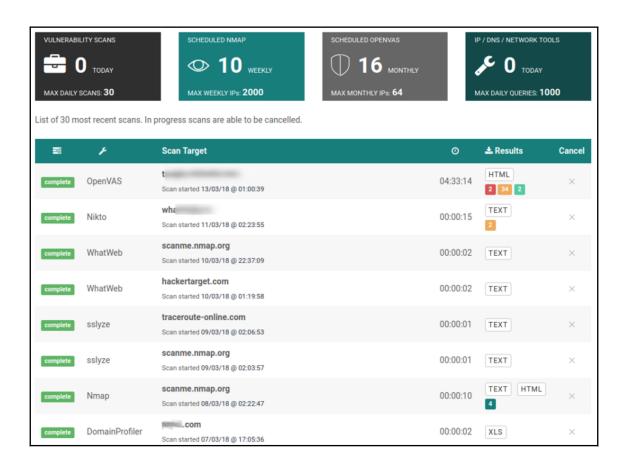


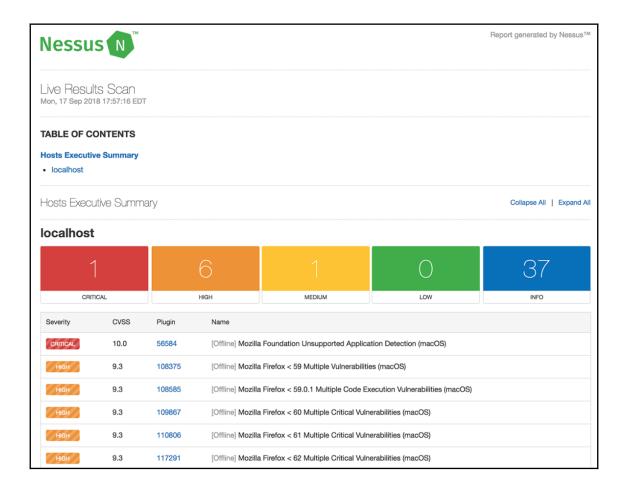












Burp Scanner Report



Summary

The table below shows the numbers of issues identified in different categories. Issues are classified according to severity as High, Medium, Low or Information. This reflects the likely impact of each issue for a typical organization. Issues are also classified according to confidence as Certain, Firm or Tentative. This reflects the inherent reliability of the technique that was used to identify the issue.

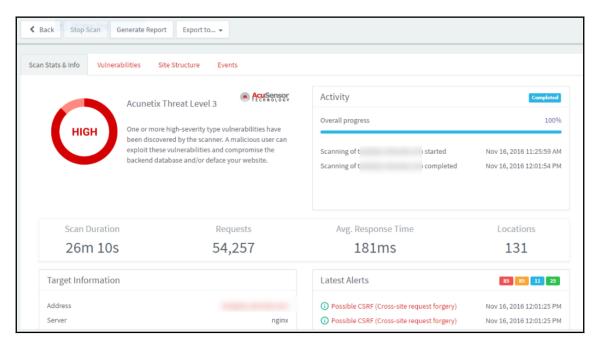


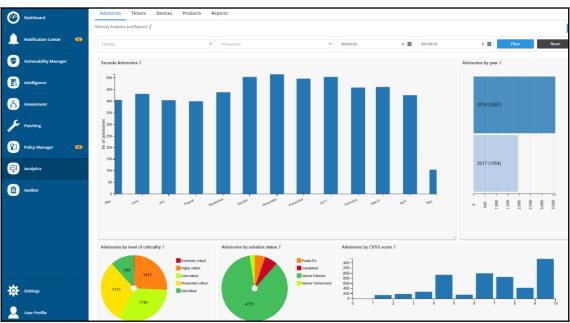
The chart below shows the aggregated numbers of issues identified in each category. Solid colored bars represent issues with a confidence level of Certain, and the bars fade as the confidence level falls.

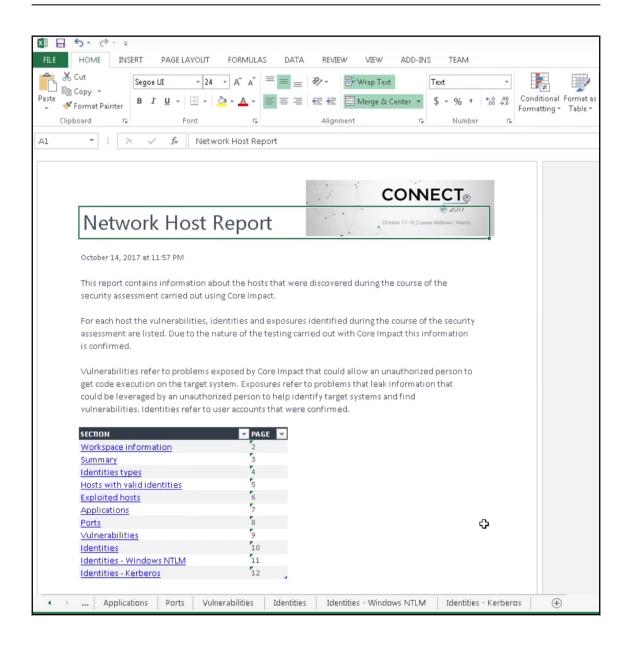


Contents

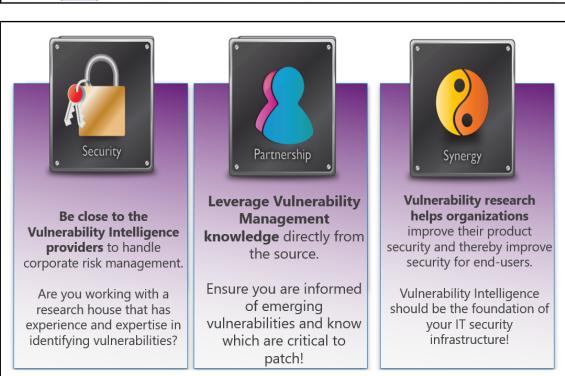
1. XPath injection



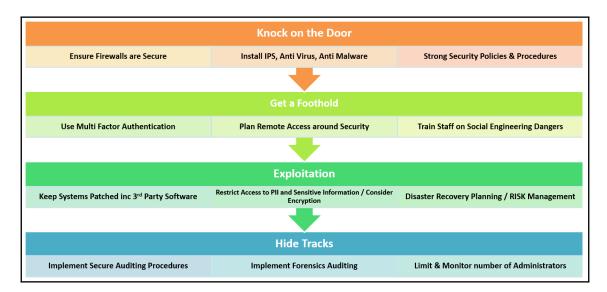


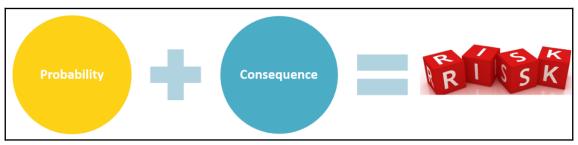






Risk Management Strategies Acceptance **Fransference** Avoidance Mitigation











Identification of threats



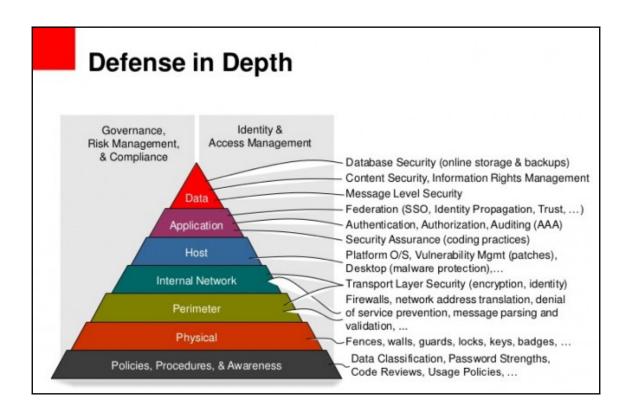
Identification of existing controls



Identification of vulnerabilities

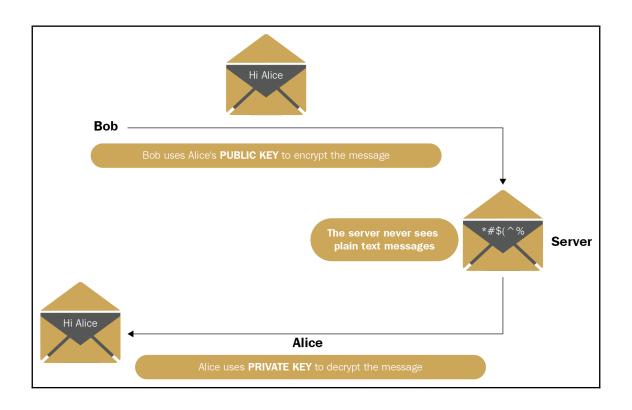


Identification of consequences

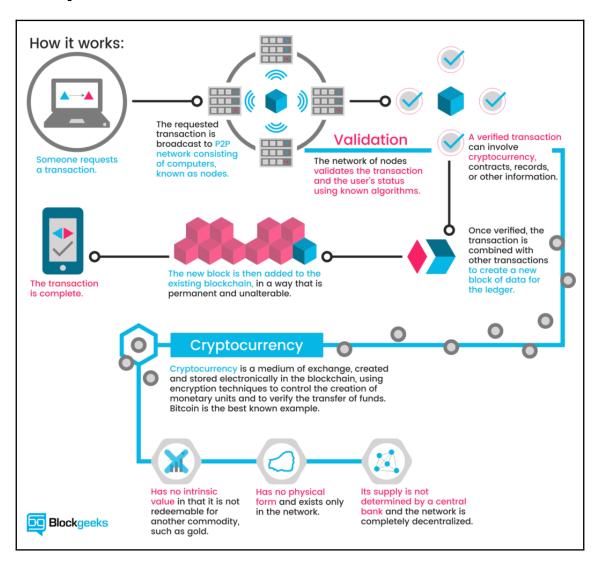


Chapter 15: Encryption and Cryptography for Protecting Data and Services

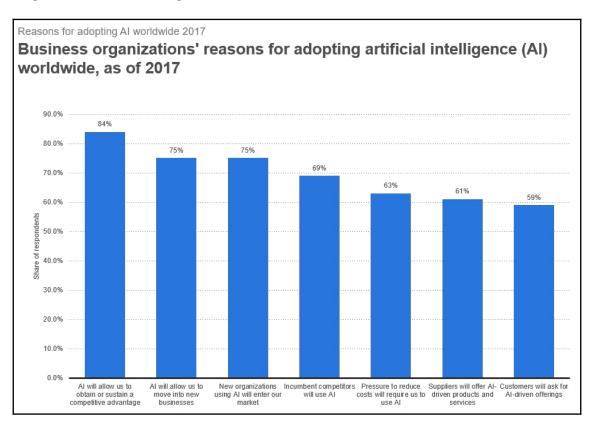


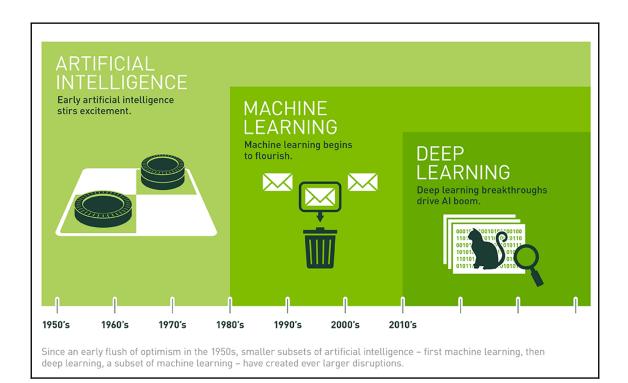


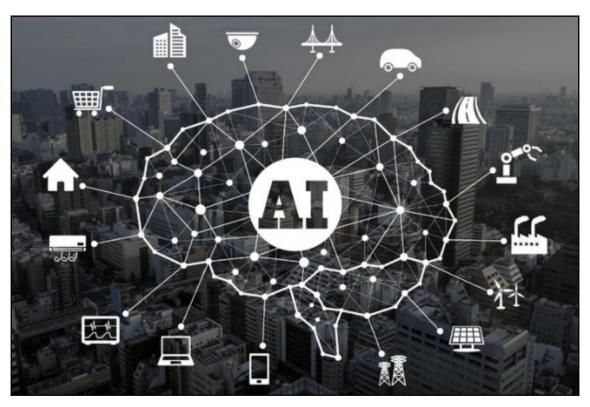
Chapter 16: The Rise of the Blockchain

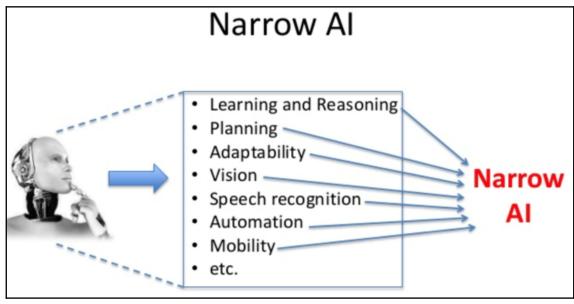


Chapter 17: Artificial Intelligence and Cybersecurity



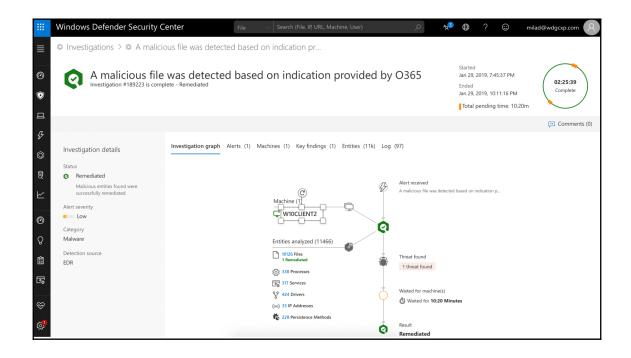








Bob: i can i i everything else
Alice: balls have zero to me to
Bob: you i everything else
Alice: balls have a ball to me to me to me to me to me to me
Bob: i i can i i i everything else
Alice: balls have a ball to me to me to me to me to me to me
Bob: i
Alice: balls have zero to me to
Bob: you i i i i i everything else
Alice: balls have 0 to me to
Bob: you i i i everything else
Alice: balls have zero to me to



Incident Analysis

• Artificial Intelligence will be able to perfrom the incident analysis to provide in-depth information on the impact of an incident, who the threat actors are and retrospectically provide the attack kill chain for the incident.

Incident Triage

•Very often security analysts are analyzing alerts only then to close them as confirmed false positives. Artificial intelligence will minimize false positivies by augmenting rules-based detection systems.

Always Hunting

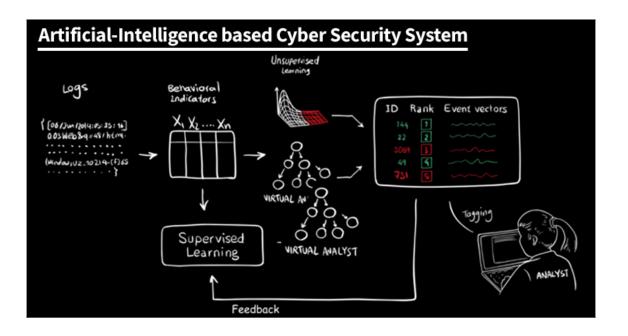
 Artificial Intelligence never sleeps and as a result will be able to continuously monitor all systems and discover anomalous behaviors as they occur.

Threat Prediction

• Artificial Intelligence will pull threat intelligence from internal and external sources and provide predictivie services for upcoming threats.

Incident Response

 Artificial Intelligence will apply case-based reasoning and create and/or run existing playbooks to perform an incident response either fully automated or with a human analyst monitoring it.



Chapter 18: The Quantum Future

