Matt Graeber Subverting & restoring trust in Windows get authenticale signature in Powershell against MS binary (legit binary will pass) if compared against known good binary sigcheck from SysInternals a gigning cert is only as good as the generity of the private key modify 2 registry keys to beat this! You can become Microsoft Sign your code W/ Powershell context is everything in security github.com/nattifestation github.com/Powershell Matia Never trust an unknown system compare against known good system use multiple points/checks to establish what does trust actually near? document your failures of keep your

- which is terret and store to get transfer Person trade signature in Person the private in the private in the private in against the part of configuration against the part of the pa awherk from Evativitersials a commission of the product is modify 2 registry beyon to hear Sign your code my Power shell context is everything in security anthores entradification Sither conference Shall Water Market trace to war town agreement compare against known good system were multiple positionship to extending what does trust attack make derest went to have to every point

John Strand Hacking, AI, Bullies, Pie, Mon and Concer Competitive analysis clauses in license agreements prevent free exchange of some research (e.g. "release your exploit & we'll sue") Public interest may stop this (i.e. say your acting in public interest) CONSUMET REVIEW Fairness Act Be willing to try New things DON'T give up wever in the face of maggive data breaches Talk to people who are employed at breached firms Malware beaconing: regular intervals, data size, convection time gate github.com/ocmdev/rita Give till it hurts ... and invite your We have the power to be awesome or incredibly evil a choose awesome

Hadring At Pulling Pie Man and Councer Sometifice analysis algueses in Treview agreements previous free exchange of some reapportuites "related & exploit of world supery Fix plic interest may stop this fill CANGERT TERMESON Consumer Review Fairness Act Be willing to the week things Pan't sive up a sucu in the for Lake to people who are employed hireaches Firms Mylmere bear country: regular internation size, country tion time. atter of the brander white Thou still it hants and july to work We have the prince to me all exerts or incited this per la Charocae dure trans

Bruce Potter what to test and how to test it More to life than pen-tests We can learn from existing software testing techniques Why to test? errors in security functionality, errors that lead to security weaknesses, errors in architectured deagn, errors in implementation testing is integral to secure development of operation it's more cost effective to do gray box or white box testing; at least partial knowledge of system Bygtene generally needs Why do you now egre about security? Who is your adversary? what do you expect from testing What is NOT tested? Note this too Short term & long term remediation

All testing starts Wrisk No testing has complete coverage: test the stuff most likely to be attacked Do architecture & design review Think conceptually about how to break system extinc is integral to secure To more coat effective to do redat partial Eventedge of everten FURTER & MERIER BUILT STEELE Why do you now eath about secur Who is your adversary? what do you expect from testing What is NOT texteed? Works this to iteitalia, busy and to mist trait

Beyond XP-undshell github.com/vetspi/Powerupsql3 SQL Server has robust auditing xp-condshell is usually monitored ... try can use CLR assemblies to run Download code from internet github.com/EmpireProject stideshare Nethrull bind

Bevond XP- undshell ofth would neterificane upsafil SOL SERVER has robust auditive xp avideliell is youdly wouldored, ... and use CLR assemblies to the Down load water from interven other war small Empired raject stidespare, we find pind

Deral Heiland

I ot security: Executing an effective security testing process embedded hardware mobile + control apps yetwork communication cloud of APIS functional eval: deployed it normally of look at it (1 running normally of 1 target, compare the two)

Map out features of functions TECON, TECON, TECON. go to FCC and look up the device encrytion (stored storage of transmission) access rights communication protocols 55L pinning Cloud & web, APIS encryption(storaged transmission) author gession management common veb vulva XSS, CGRF, SQLI, etc

Network exposed services auth access rights Physical embedded hardware inspection chips physical ports circuitry connection Radio(RF) encryption Pairing access control replay attacks som masson masson This all leads to reduced issues, reduced risk, better products, & deeper understanding lungaring unit to appropriate transferred word y which HOSSIAN HOLLY STATES OF Court of white ATLE missimenson - bases dalucitarino THE I SEED IN MANUARMENT LEADING OF BUTTER XEG, CERT, EQUIL ETC

Purpose driven hunt hywting is actively searching for malicious activity in environment assume breach mindset generic process; gother data & hunt what is "good"? what's normal in your extront? create hypothesis (what are you seeking?)
gather data
hunt for bad how to make a hypothesis? focus on post exploitation activity MITRE cyber attack lifecycle focus on be behaviors, rather than attacker's tools O identify the faction technique Didentify the procedures Bidentify the procedures O identify the scope ta to collect locument excluded factors

this lets you focus on a tangible result don't stop the tool, stop the techniques it uses don't bite off more than you can No "golden bullet" iterative process don't gettle for I detection technique forms on the perguious, rather than to identify the tactic of technique

How the equation groups 2013 tools April 2017: shadow brokers tool drop Most of it was post-exploit around 2005', Danderspritz framework Ruzzbynch (Kinda like Metaspoit Francurk) Peddle Cheap (implant, part of command+ Dander Spritz Written in Java pluging written in Python designed for stealth survey. Py script (what's running on target, reverything!) Danderspritz has forensics capabilities has extensive database of anti-malware systems; via registry queries, it safety handlers: keep users from getting caught by stopping them from doing actions that would get them caught

Emptykeg for WMI abuse danderspritz.com danderspritz.docs github Most of it was post-exploit arround 201005: Dandersports Francourts Suzzeruch (Einda libe Metasport Francis) Peddle Cheap (implant part of community Dander Spritz written in Tava Pluging written in Python designed for stealth ENTURY, FY SETTET (What's MUNUAL O Foradt puervidings) Dandersprints has foreusics capabilities STEW SMELTER PA SAFOLATION SUIZNESTINS AND suctions the registry queries, it acted handlers keep meers train

ANTi-phishing & malspan measures
rootisthe limit.com
domain typo squatting => Python derby-con1.com on github.com
block attachments of review those you let through
Use Outlook add-ins such as PhishAlert, PhishReporter, or PhishMe
Windows tags stuff coming from internet via Alternative Data Streams
Active Directory group policy Active Directory group policy Block anything C:\Windows\Temp\ J running from here
subtee's app whitelist bypass subtexion blogspot.com
block parked domains
block webmail access

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Tyler Hudak

To catch a spy Got to have logging, visibility into Most importantly, need knowledge to I mace file execution options attach a debugger to a program prior to run... registry key sticky keys backdoor, , registry key Detection: look for use of debugger registry keys (MS Autoryns) can also detect via logging Shell extensions very tricky to find DLL search order checks first in program dir, then windows (system 32, then windows) gystem, windows, current dir, and lastly in path malware wants to get in closest to the front

malware often fries to use exset. all Detecting this is easiest w/ memory dumper utils like Volatility Volume boot record persistence reimage... Make sure master boot record is overwritten! Detection via MEMORY analysis Process hollowing again, memory analysis to detect sysmon w/parent process analysis can also detect una logging built of year to fewel charles first in program dir. Hopen there is a state the

	Casey Rosini
	Memory-based library loading
80	Has been ground for awhile, but a little exercise obscure
	portable executable (PE) format exe & all are similar
	DLL: module w/things for another module
	est DLLentry point is optional

Metrory-based library loading the been around for awhile, but a little adjusted obscure POPTABLE EXECUTABLE (FE) CONNET DLL: module withings for another natule ed DLL entry point is aptional

Blue team keeping tempo w/offense the stronger your competitor, the stronger your game low-level visibility at the endpoint how to sift huge amounts of endpoint detection & prevention have improved approved, enapoint of network flow good techniques will be commodifized a eventually won't work; signatures will be developed get the right tools & data atomic testing: small unit tests based on METRE ATTACK framework don't fixate on alerts... what was the attack behind it? What technique was used in the attack? watching memory is fine, but eventually, a network packet will be sent by an attack (knowingly or unknowingly) attack (knowingly or unknowingly) i.e., network connection by Windows command line

an attacker might get in, but he must fight to get something out on-level visibility at the employent how to att huse mounts of endroint detection of prevention hade improved and techniques will be confidentized I eventually want years; signature gest the right tools 4 data atomic testings small aun't tests Daged on METRE ATTACK FIGHENING don't fixthe on elects, what was the altack believed it? wheat technique was used in the attack Notchius memory is fine, but eventuall a netriest parteet will be sent by ou Attack (Kachinaly of unknowingly) ing methodite connection by Mindow shill buomyou

Data Mining wireless surveys EAK stack (Elastic search, Lastack Kablana scapy doesn't parse PPI header (fot GPS coordinates)... tshark does Logstash for log processing Most packets were from channels top SSIDS: X FINITYWIFT, X FINITY, SHE, cable wifi, coxwifi ELK stack Elastic search Logstash Kiloana Alfa cards draw a LOT of power Grom USB Ryngold Alfa card on USB 3 port, due to higher data thruput on 5 gttz band

Data Mining unreless surveys ELE STOCK (Elast) Dearth and lakely scapy doesn't parse PPI header That GPS coordinates) ... tshark does pursesoury por Tot depteno most packets were from channels top solve; xtinitywiti, xtinity Flostic search A Ka cards day a LOT of power FIELD MOTE RUN gold A For and on USB 3 part his transfer deto they put on First David

TIM TOMES

Burping for joy & Financial gain use grep extract ... it's cool of works well (especially on HTTP response) method interchange right click w/in repeater to switch get & post (and vice versa) test for SSL/TLS stripping force use of proxy, request handling, force use of can strip HSTS, but only if Man-in-the-middle is there for first HTTPS request

BUTPING FOR joy of financial gain The gier extrat. It's cool of works well lespecially on HITP DEMOGRA method interchange right the will repeater to switch bet of post fand vice verse test for set fre stripping fore use of can attio Hats, but early it man-inthe middle is there for first HTPS P41125

Cheating to win w/web app identify what's important to test assume that data can be sent; have no control over client OWASP top 10, but don't stop there developers will use 3rd party components Grequent web app testing decide on black, white, gray box testing... maybe a combo of these internal tests should be white or gray box recon, Map, discovery, exploit focus with purpose (if you're stuck, move on a come back to it) Aggressive backups & patch faster; if patch fails, roll back

Cherting to win whole app identify what's inportant to test assume that can be sent have no control out of their another top 10, but don't stop theredaystopers will use 3rd party camponests Frequent web app teating decide on plant, white, gray box stidy ad blyodes steet purstur TELEN, MART, MERCOVERY, EXPLOIT for the purpose (if you'retransactive backups of public Grater Tradition for the total

Full-contact recon.

each packet = chance
each packet = of getting
packet economics; be judicious caught
about sending packets to a target the older a target, the More vulvs it likely has Ptrarchive.com (reverse DNS backs google's excert transparency report sublist31 de too remember shodan! githump tool (each, github commit has an email attached to it) data.com (finding soft targets) hunter.io verify-enail.org allmytweets.net finder inside pro. com (hash cracker)

eads packet = of setting Parket Economics: be fudicious about send his parkets to a targe the older a target, the More vulus PTAITHING LOW (TELETSE DNS back doodle, a de sect transbalench labou remember shodyul githump tool leach sithup commit has data, con (finding soft tangets) CI JOHN IN Almytinests, met Finder insidepro, con (hash cracker)

I WANT MY EIP stack buffer overflow on wikipedia ESP register: top of stack ETP register: Next instruction to be executed (it's address) we want to put a return address into EIP that we control. This leads to gode execution, as we want to send EIP to our code need to know how much input causes
the buffer overflow
fathers pattern create to in MSF
this is so we can find exact
input which caused EIP overwrite pattern offset to in MSF (tells exact position of the pattern we want) we need a memory location containing JMP ESP, to go to EIP (that we control address of) github.com/hardwaterhacker hardwatersec.blogspot.com

I MANT MY EIP start butter overflow on wisipedia EST register: the of stack ETP register: Next pustouchou to executed (it's address) who ETP that we control This lads weed for know how much imput coveres seathers pathern create to in MSF this is some any find exact input which caused FTP overunite patient offset to in MAFI tells exact THE EST to go to ETP (that we (20 admitted totther attail be conflicted uniter hacker hardygtersechopspotican

dumps william secrets: recent password people often choose secrets as their passwords hackermaps.org password sources; data breaches have ibeen pwied. com hashes.org review your wordlists against recent remove long strings, unicode from leet speak passwords gren't used that much iwant, ilove, i hate, very popular beginnings of passwords season + year is popular "summer 2016" github.com/nyxgeek/dumpeniffer 10 crack commandments at hashcrack in

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Ryan Reid

By SpyDir: a BurpSuite extension
github.com/ayr3lius-dev

Mr. dynamic spidering & low on time

BurpSuite Pro content discovery

what if you have source?

Needs Jython 2.7

in BApp store (older version)

By Spylic: a Burpswite extension attrubeconfourstins-dev du dynamic spidering de low on time BOFF Burpfult Pro content discovery Sasinas south non 3: tenton Needs Tythou 2.7 in BARR STORE (alder Version)

Sarah Norris

Phishing for yout your granding Need pretext w/ urgency good payload evade span filter good phishing site Mxtoolbox sourceforge. Net/projects/opendkim edit /etc/opendkim.conf add DKIM Key to DNS SETUP SPF, DK-IM, DMARC get an 551 cert letsencrypt UNICOTN. PY (post-exploit framework) Pretext possibilities
open court case
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Philipping for your your granding apped payload Filter good phicking site sourceforce. Nety zopiects/openitham edit letel moenulling Lant SETUP SEE, DEETH, DWARK C LETERNATURET unicamipy (post-explait framework esitiliareed Tastson Seps truck usage Exercise interesting this terror

## LENNART KOOPMANN

Love is in the air: DFIR and IDS for wifi networks
WAR. Mortge https://wtf.horse
wifisecurity is a ness, hard to secure & affacks aren't that hard
8\$2.11 Management Frames: how client of access point connector
asking if a known network is in range
Probe response: yes, I'm the KNOWN Network you asked for
WPA-PGK is still sviffable, if you have the pre-shared key must kick someone of t catch their connection (ala airdecap-Ng)
hard to analyze wifi packet captures over time in wireshark/tshark
Nzyme github.com/lennantkoopmann

Love is in the airs IPFER and IDS for wife nestworks WHE MORER WHES HWHE horse with security is a mess, load to 802-11 May governent frances Frank Stient of access result sounderfor served their degreest device use in a bush we twent is in FIDDE RESPONSES VER TIM HAR Kushin network by asked for have the pre-spaged key detect the suggest Lit bound Inla airder ap-Na) hard to analyze wiff reachest continess Mayne attribused langer teaphen

## Matthew Eidelberg

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	SNOFFAIR OPEN SOUTCE WITELESS SECUTITY
	look at beacon frames: they contain MAC, SSID, encryption type, etc
	look at probe requests + probe responses
	swiftair designed to analyze of manage large amounts of data
	Modular & supports several attacks (EAP password bruting, captive portal fake, etc)
	github.com/tylous/sniffair
1	

	Matthew anderberg
y Fra	SUMPANT OPEN SOUTH WITELESS SPEC
	appearment franciscope
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	MAC, SOTD, our ryphan type, atc.
258	paper redord of established adold to April
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SVITS	interver (ETF password burning, cat
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Tim Watal Robert Vetter Privacy Game TimMalcomVetter separate identity from physical address can you truly get privacy? "How to be invisible" by JJ Luna pay in cash get a deed of title in UC Name get an UC thry trusted attorney that understands privacy can get a car via UC get a mailing address via UPS Store do this while driver license has old address or your passport home insurance policy can be a pain but it's possible Most times, people don't need physical address ("This is my address") VPN traffic to disguise source IP

PTULLEY STEVE TIMMOLONUETE separate identify from physical address can you truly get privary? "How to be invisible" by II Liver get a dopped detitle in the name get an election trusted attender First understands privacy can get a car via LLC get a mailing address you UPS Ston old address or your passport hume internative begins and pe a built aldieson stited Most times, people don't need physic UPN traffic to dispulse source IP