



# Thursday August 7th

|              | <b>Track 3</b>                                                                                                                                                  | <b>DEF CON 101</b>                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>10:00</b> | <b>DEFCON 101 - The Talk</b><br><i>Panel</i>                                                                                                                    | <b>Data Protection 101 - Successes, Fails, and Fixes</b><br><i>PTzero (Peter Teoh)</i> |
| <b>11:00</b> |                                                                                                                                                                 | <b>Practical Foxhunting 101</b><br><i>SimonJ</i>                                       |
| <b>12:00</b> | <b>Paging SDR... Why should the NSA have all the fun?</b><br><i>Xaphan &amp; Noobz</i>                                                                          | <b>RF Penetration Testing, Your Air Stinks</b><br><i>RMellendick &amp; DaKahuna</i>    |
| <b>13:00</b> | <b>Protecting SCADA From the Ground Up</b><br><i>AlxRogan</i>                                                                                                   | <b>AWS for Hackers</b><br><i>Beaker</i>                                                |
| <b>14:00</b> | <b>One Man Shop: Building an Effective Security Program All By Yourself</b><br><i>Medic</i>                                                                     | <b>Anatomy of a Pentest; Poppin' Boxes like a Pro</b><br><i>Pushpin</i>                |
| <b>15:00</b> | <b>In the forest of knowledge with 1057</b><br><i>LosT</i>                                                                                                      | <b>Standing Up an Effective Penetration Testing Team</b><br><i>Wiseacre</i>            |
| <b>16:00</b> | <b>Oh Bother, Cruising the Internet With Your Honeys — Creating Honeynets for Tracking Criminal Organizations</b><br><i>Terrence Gareau &amp; Mike Thompson</i> | <b>The Making of DEF COIN</b><br><i>Xaphan, Beaker, &amp; Anch</i>                     |
| <b>17:00</b> | <b>RFIDler: SDR.RFID. FTW</b><br><i>Major Malfunction and Zac Franken</i>                                                                                       | <b>Reverse Engineering Mac Malware</b><br><i>Sarah Edwards</i>                         |



# Friday August 8th

|              | <b>Penn &amp; Teller</b>                                                                                                                           | <b>Track 1</b>                                                                                                                    | <b>Track 2</b>                                                                                                                    | <b>Track 3</b>                                                                                                     | <b>DEF CON 101</b>                                                                            |
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| <b>10:00</b> | <b>Welcome &amp; Making of the DEF CON Badge</b><br><i>Dark Tangent &amp; LosT</i>                                                                 | <b>Saving the Internet (for the Future)</b><br><i>Jay Healey</i>                                                                  | <b>Domain Name Problems and Solutions</b><br><i>Paul Vixie</i>                                                                    | <b>Oracle Data Redaction is Broken</b><br><i>David Litchfield</i>                                                  | <b>Meddle: Framework for piggy-back fuzzing and tool development</b><br><i>Geoff McDonald</i> |
| <b>11:00</b> | <b>Steganography in Commonly Used HF Radio Protocols</b><br><i>Paul Drapeau &amp; Brent Dukes</i>                                                  | <b>The Only Way to Tell the Truth is in Fiction: The Dynamics of Life in the National Security State</b><br><i>Richard Thieme</i> | <b>Measuring the IQ of your Threat Intelligence feeds</b><br><i>Alex Pinto &amp; Kyle Maxwell</i>                                 | <b>Abuse of Blind Automation in Security Tools</b><br><i>Eric (XlogicX) Davisson &amp; Ruben Alejandro (chapo)</i> | <b>USB for all!</b><br><i>Jesse Michael &amp; Mickey Shkatov</i>                              |
| <b>12:00</b> | <b>The NSA Playset: RF Retroreflectors</b><br><i>Michael Ossmann</i>                                                                               | <b>How To Get Phone Companies To Just Say No To Wiretapping</b><br><i>Phil Zimmermann</i>                                         | <b>Stolen Data Markets An Economic and Organizational Assessment</b><br><i>Dr. Thomas Holt, Olga Smirnova, &amp; Yi-Ting Chua</i> | <b>From root to SPECIAL: Pwning IBM Mainframes</b><br><i>Philip "Soldier of Fortran" Young</i>                     | <b>We Wrapped Samba So You Don't Have To</b><br><i>Lucas Morris &amp; Michael McAtees</i>     |
| <b>13:00</b> | <b>Hacking US (and UK, Australia, France, etc.) traffic control systems</b><br><i>Cesar Cerrudo</i>                                                | <b>Detecting and Defending Against a Surveillance State</b><br><i>Robert Rowley</i>                                               | <b>PoS Attacking the Traveling Salesman</b><br><i>Alex Zacharis &amp; Tsagkarakis Nikolaos</i>                                    | <b>The \$env:PATH less Traveled is Full of Easy Privilege Escalation Vulns</b><br><i>Christopher Campbell</i>      |                                                                                               |
| <b>14:00</b> | <b>What the Watchers See: Eavesdropping on Municipal Mesh Cameras for Giggles (or Pure Evil)</b><br><i>Dustin Hoffman &amp; Thomas (TK) Kinsey</i> | <b>Hacking the FBI: How &amp; Why to Liberate Government Records</b><br><i>Ryan Noah Shapiro</i>                                  | <b>DefCon Comedy Jam Part VII, Is This The One With The Whales?</b><br><i>Panel</i>                                               | <b>Bypass firewalls, application white lists, secure remote desktops under 20 seconds</b><br><i>Zoltán Balázs</i>  | <b>Investigating PowerShell Attacks</b><br><i>Ryan Kazancıyan &amp; Matt Hastings</i>         |
| <b>15:00</b> | <b>Am I Being Spied On? Low-tech Ways Of Detecting High-tech Surveillance</b><br><i>Dr. Phil Polstra</i>                                           | <b>Saving Cyberspace by Reinventing File Sharing</b><br><i>Eijah</i>                                                              | <b>Extreme Privilege Escalation On Windows 8/UEFI System</b><br><i>Corey Kallenberg &amp; Xeno Kovah</i>                          | <b>Client-Side HTTP Cookie Security: Attack and Defense</b><br><i>David Wyde</i>                                   |                                                                                               |
| <b>16:00</b> | <b>Practical Aerial Hacking &amp; Surveillance</b><br><i>Glenn Wilkinson</i>                                                                       | <b>The Open Crypto Audit Project</b><br><i>Kenneth White &amp; Matthew Green</i>                                                  | <b>Veil-Pillage: Post-exploitation 2.0</b><br><i>Will Schroeder (@harmjoy)</i>                                                    | <b>An Introduction to Back Dooring Operating Systems for Fun and Trolling</b><br><i>Nemus</i>                      |                                                                                               |
| <b>17:00</b> |                                                                                                                                                    | <b>Dark Mail</b><br><i>Ladar Levison &amp; Stephen Watt</i>                                                                       | <b>Acquire current user hashes without admin privileges</b><br><i>Anton Sapozhnikov</i>                                           | <b>Blinding The Surveillance State</b><br><i>Christopher Soghoian</i>                                              |                                                                                               |
|              |                                                                                                                                                    | <b>From Raxacorico-fallapatorius With Love: Case Studies In Insider Threat</b><br><i>Tess Schrodinger</i>                         | <b>Why Don't You Just Tell Me Where The ROP Isn't Suppose To Go?</b><br><i>David Dorsey</i>                                       | <b>Diversity in Information Security</b><br><i>Panel</i>                                                           |                                                                                               |
|              |                                                                                                                                                    |                                                                                                                                   | <b>The Secret Life of Krbtgt</b><br><i>Christopher Campbell</i>                                                                   |                                                                                                                    |                                                                                               |
| <b>18:00</b> |                                                                                                                                                    |                                                                                                                                   | <b>A journey to protect points-of-sale</b><br><i>Nir Valtman</i>                                                                  |                                                                                                                    |                                                                                               |



# Saturday August 9th

|              | <b>Penn &amp; Teller</b>                                                                                                                | <b>Track 1</b>                                                                                                                               | <b>Track 2</b>                                                                                                                                     | <b>Track 3</b>                                                                                                                      | <b>Track 4</b>                                                                                                                      |
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| <b>10:00</b> | <b>The Cavalry Year[o] &amp; a Path Forward for Public Safety</b><br><i>Joshua Corman &amp; Nicholas J Percoco</i>                      | <b>Hack All The Things: 20 Devices in 45 Minutes</b><br><i>CJ Heres, Amir Etemadieh, Mike Baker, &amp; Hans Nielsen</i>                      | <b>Hacking 911: Adventures in Disruption, Destruction, and Death</b><br><i>Christian "quaddi" Dameff, Jeff "r3plican" Tully &amp; Peter Hefley</i> | <b>Mass Scanning the Internet: Tips, Tricks, Results</b><br><i>Robert Graham, Paul McMillan, &amp; Dan Tentler</i>                  | <b>Screw Becoming A Pentester When I Grow Up I Want To Be A Bug Bounty Hunter!</b><br><i>Jake Kouns &amp; Carsten Eiram</i>         |
| <b>11:00</b> | <b>Don't Fuck it Up!</b><br><i>Zoz</i>                                                                                                  | <b>The Internet of Fails: Where IoT Has Gone Wrong and How We're Making It Right</b><br><i>Mark Stanislav &amp; Zach Lanier</i>              | <b>Girl... Fault-Interrupted.</b><br><i>Maggie Jauregui</i>                                                                                        | <b>I Hunt TR-069 Admins: Pwning ISPs Like a Boss</b><br><i>Shahar Tal</i>                                                           | <b>Bug Bounty Programs Evolution</b><br><i>Nir Valtman</i>                                                                          |
| <b>12:00</b> | <b>Summary of Attacks Against BIOS and Secure Boot</b><br><i>Yuriy Bulygin, Oleksandr Bazhaniuk, Andrew Furtak &amp; John Loucaides</i> | <b>Logging ALL THE THINGS Without All The Cost With Open Source Big Data Tools &lt;/buzzwords&gt;</b><br><i>Zack Fasel</i>                   | <b>Cyberhijacking Airplanes: Truth or Fiction?</b><br><i>Dr. Phil Polstra &amp; Captain Polly</i>                                                  | <b>Don't DDoS Me Bro: Practical DDoS Defense</b><br><i>Blake Self &amp; Shawn "ciscotinija" Burrell</i>                             | <b>How to Disclose an Exploit Without Getting in Trouble</b><br><i>Jim Denaro &amp; Tod Beardsley</i>                               |
| <b>13:00</b> | <b>Secure Random by Default</b><br><i>Dan Kaminsky</i>                                                                                  | <b>ProPLANE: Kind of keeping the NSA from watching you pee</b><br><i>Rob Bathurst, Russ Rogers, Mark Carey, &amp; Ryan Clarke</i>            | <b>Just What The Doctor Ordered?</b><br><i>Scott Erven &amp; Shawn Merdinger</i>                                                                   | <b>Secure Because Math: A Deep Dive On Machine Learning-Based Monitoring</b><br><i>Alex Pinto</i>                                   | <b>Instrumenting Point-of-Sale Malware: A Case Study in Communicating Malware Analysis More Effectively</b><br><i>Wesley McGrew</i> |
| <b>14:00</b> |                                                                                                                                         | <b>NinjaTV - Increasing Your Smart TV's IQ Without Bricking It</b><br><i>Felix Leder</i>                                                     |                                                                                                                                                    | <b>Masquerade: How a Helpful Man-in-the-Middle Can Help You Evade Monitoring</b><br><i>Ryan Lackey, Marc Rogers, &amp; theGrugq</i> | <b>The Monkey in the Middle: A pentesters guide to playing in traffic.</b><br><i>Anch (MIKE GUTHRIE)</i>                            |
| <b>15:00</b> | <b>Advanced Red Teaming: All Your Badges Are Belong To Us</b><br><i>Eric Smith &amp; Josh Perrymon</i>                                  | <b>A Survey of Remote Automotive Attack Surfaces</b><br><i>Charlie Miller &amp; Chris Valasek</i>                                            | <b>Impostor — Polluting Tor Metadata</b><br><i>Charlie Veda &amp; Mike Larsen</i>                                                                  | <b>VoIP Wars: Attack of the Cisco Phones</b><br><i>Fatih Ozavci</i>                                                                 | <b>Detecting Bluetooth Surveillance Systems</b><br><i>Grant Bugher</i>                                                              |
| <b>16:00</b> | <b>Manna from Heaven: Improving the state of wireless rogue AP attacks</b><br><i>Dominic White &amp; Ian de Villiers</i>                | <b>Learn how to control every room at a luxury hotel remotely: the dangers of insecure home automation deployment</b><br><i>Jesus Molina</i> | <b>Check Your Fingerprints: Cloning the Strong Set</b><br><i>Richard Klafter (Free) &amp; Eric Swanson (Lachesis)</i>                              | <b>Abusing Software Defined Networks</b><br><i>Gregory Pickett</i>                                                                  | <b>Touring the Darkside of the Internet. An Introduction to Tor, Darknets, and Bitcoin</b><br><i>Metacortex &amp; Grifter</i>       |
| <b>17:00</b> |                                                                                                                                         | <b>Raspberry MoCA - A recipe for compromise</b><br><i>Andrew Hunt</i>                                                                        |                                                                                                                                                    | <b>Getting Windows to Play with Itself: A Hacker's Guide to Windows API Abuse</b><br><i>Brady Bloxham</i>                           | <b>DEFCON the Mystery, Myth and Legend?</b>                                                                                         |
| <b>18:00</b> |                                                                                                                                         | <b>Attacking the Internet of Things using Time</b><br><i>Paul McMillan</i>                                                                   |                                                                                                                                                    | <b>Panel — Surveillance on the Silver Screen- Fact or Fiction?</b><br><i>Nicole Ozer, Kevin Bankston, &amp; Timothy Edgar</i>       |                                                                                                                                     |
|              |                                                                                                                                         |                                                                                                                                              | <b>Old Skewl Hacking: Porn Free!</b><br><i>Major Malfunction</i>                                                                                   |                                                                                                                                     |                                                                                                                                     |



# Sunday August 10th

|              | <b>Track 1</b>                                                                                             | <b>Track 2</b>                                                                                                                   | <b>Track 3</b>                                                                                                                         | <b>DEF CON 101</b>                                                                               |
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| <b>10:00</b> | <b>Burner Phone DDOS 2 dollars a day : 70 Calls a Minute</b><br><i>Weston Hecker</i>                       | <b>Weaponizing Your Pets: The War Kitteh and the Denial of Service Dog</b><br><i>Gene Bransfield</i>                             | <b>I am a legend: Hacking Hearthstone with machine learning</b><br><i>Elie Bursztein &amp; Celine Bursztein</i>                        | <b>"Around the world in 80 cons" - A Perspective</b><br><i>Jayson E. Street</i>                  |
| <b>11:00</b> | <b>NSA Playset: DIY WAGONBED Hardware Implant over I2C</b><br><i>Josh Datko &amp; Terry Reed</i>           | <b>Optical Surgery; Implanting a DropCam</b><br><i>Patrick Wardle &amp; Colby Moore</i>                                          | <b>The Simple Route to Backbone Routers</b><br><i>Luca "kaeso" Bruno &amp; Mariano "emdel" Graziano</i>                                | <b>You're Leaking Trade Secrets Michael</b><br><i>Schrenk</i>                                    |
| <b>12:00</b> | <b>NSA Playset : GSM Sniffing</b><br><i>Pierce &amp; Loki</i>                                              | <b>Open Source Fairy Dust John</b><br><i>Menerick</i>                                                                            | <b>Catching Malware En Masse: DNS and IP Style</b><br><i>Dhia Mahjoub, Thibault Reuille, &amp; Andree Toonk</i>                        | <b>Dropping Docs on Darknets: How People Got Caught</b><br><i>Adrian Crenshaw</i>                |
| <b>13:00</b> | <b>Blowing up the Celly - Building Your Own SMS/MMS Fuzzer</b><br><i>Brian Gorenc &amp; Matt Molinyawe</i> | <b>Deconstructing the Circuit Board Sandwich: Effective Techniques for PCB Reverse Engineering</b><br><i>Joe "Kingpin" Grand</i> | <b>Weird-Machine Motivated Practical Page Table Shellcode &amp; Finding Out What's Running on Your System</b><br><i>Shane Macaulay</i> | <b>Home Alone with localhost: Automating Home Defense</b><br><i>Chris Littlebury</i>             |
| <b>14:00</b> | <b>Playing with Car Firmware or How to Brick your Car</b><br><i>Paul Such ox222 &amp; Agix</i>             | <b>NSA Playset: PCIe Joe FitzPatrick &amp;</b><br><i>Miles Crabill</i>                                                           | <b>Generating ROP payloads from numbers</b><br><i>Alexandre Moneger</i>                                                                | <b>Android Hacker Protection Level 0</b><br><i>Tim Strazzere &amp; Jon Sawyer</i>                |
| <b>15:00</b> | <b>Empowering Hackers to Create a Positive Impact</b><br><i>Keren "k3r3n3" Elazari</i>                     | <b>NSA Playset: PCIe Joe FitzPatrick &amp;</b><br><i>Miles Crabill</i>                                                           | <b>Shellcodes for ARM: Your Pills Don't Work on Me, x86</b><br><i>Svetlana Gaivoronski &amp; Ivan Petrov</i>                           | <b>Is This Your Pipe? Hijacking the Build Pipeline</b><br><i>Kyle Kelley &amp; Greg Anderson</i> |
| <b>16:30</b> | <b>DEF CON 22 Closing Ceremony</b>                                                                         |                                                                                                                                  |                                                                                                                                        |                                                                                                  |