

DEFCON 9

Las Vegas • July 13-15, 2001



DEFCON
DC9

Thanks

to the following people who made DEF CON possible (in no particular order) Noid, Zac, Noid, Preist, Artimage, AX, IRA, Dead Addict, Bink, Waz, Xylorg, The People, Josh, Tina, Dianna, Ping, Major Malfunction, Metal Head, Queeg, Videoman, ArcLight, Evil Pete, Dr.

Kool, Russ, Evil, Magsusa, Lockheed, The Jinx Crew, TSOK, Charel, All of the speakers who worked hard to bring you new information, The Alexis Park Staff for putting up with us, Stevyn, Penguino, Winn Schwartzau, The California Car Caravan people, anyone who did something cool for the convention like set up a wireless AP or a low power micro FM station, or just helped out a fellow hacker. With out everyone working together none of this chaos would have been possible. I will have a drink and toast your studliness.

Welcome to DEF CON Nine!

This is the biggest and baddest show ever. More speakers than ever, a bigger wireless network than ever, longest running show ever, and more hotel space than ever. Let me take this opportunity to put the rumors to rest. This year we have more space than H2K2 will next year, and next year we will have another 10,000 feet. If you count the entire hotel grounds we have them beat by a few acres. You are at the largest hacker party / conference on the planet!

Now none of this would not be possible with out the speakers or the staff. Unlike Black Hat, the speakers do not get paid for their time. They are doing this because they want to present neat new stuff to the community. Buy a speaker a drink for their hard work, but do it after their speech!

The staff is all volunteer, and they do a great job considering there are over 4,500 people here. Please don't mess with the staff. They are not here to make your life tough, they are here to make the show go. If a hallway is over crowded and they ask you to please move, it is not because they are out to get you. It is because they don't want the fire marshall pissed off. So buy the staff two drinks, after their shift of course!

I have selected a wide range of speakers on the most number of topics. Take some time out of your parting and see some talks this year! We have tried to make more space available to speakers so there will be less crowding.

OK, I am (as usual) up late and behind work so I am off to finish the rest of this program. Welcome to my party!

The Dark Tangent

WWW.DEFCON.ORG

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Events

2ND ANNUAL DEFCON COFFEE WARS

For our second year, we're back with a caffeine-induced vengeance. The premise is simple. You wake up, likely tired and hungover, you bring on your best coffee, and we find out just who has the best coffee of all. Check it all out at coffee.wars.org

New this year

- Cooler prizes
- Larger supply of all t-shirts and mugs for the populace. Expanded judging categories
- Donations of coffee from Innkeeper's Coffee
- Free scolding/whopping water for any who bring Folgers or Starbucks
- Better organization (we've had a year to figure out how to do this right, this time)
- Rob Niehaus actually showing up and not ditching the entire event to say Dyrus

SOCIAL ENGINEERING COMPETITION

The social engineering competition is back...this year's competition will be held by the drunkenwhores.com crew. It will focus mainly on celebrity deception, and harassment of the ideas we are working on right now include the personal cell phones of some of the most popular celebrities of today, and of course the RoB's...Yes, we do have Scott Baio's (Charles in *Charges*) home number and we are not afraid to call him up and say hello...sign-ups will be at the NOK, if the response is as large as we hope the participants will be chosen by a fair method at the con...—Humpdink

PINGUINO'S SCAVENGER HUNT

The scavenger hunt this year is being run behalf of Flippersmack (project that replaced Sysall) with the help of Kline gate (huckamul) to ensure that there'll always be someone there.

Step by step and pick up the rules and enter the contest! Check out the official scavenger web site.

DEFCON 9 RADIO

Defcon radio...featuring 3500+ listener selected tracks streaming Vorbis through locast2. Users will have the ability to vote on what they want to listen to, view who voted for what tracks, and even vote off a song if it sucks. The track that has the highest # of listeners will be broadcast to an FM frequency so those wandering around or in their hotel rooms can also listen in on what people want to hear. Our wandering reporters will be getting up to the minute reports from people at the con and updates will be broadcast through the station randomly throughout the day. Get your scheduling information with D-update, every hour during scheduled activities. A few of the lectures will also be available throughout the con through separate streams on the station.

Assistance needed: For those who have recon capabilities in the area, we need to know what FM broadcasters there are in the area, and preferably live to find a solid frequency that is not currently in use...Sponsored by DMZ Services, Inc.

THE BLACK & WHITE BALL

OK, so this year we will have more ambient music (so you can talk to the person next to you) and a bouncer at the door...Just five, because you hate in LA or NY. If you don't try to dress up in your finest threads you don't get in. This is to reverse last year's trend to people showing up as the same ol' thing they drove out from California in. Once you

get in there, it will be a bar for those if you ever say, "I'm a []", her best dressed contest and some other stuff we haven't thought of yet. So what is acceptable to wear? In the past there have been formal wear, fetish wear, bondage clothing, a prom dress, old zoot suits, and a full "cyber" punk on roller blades with a head mount display. Anything you want to show off or feel good wearing...—Locally

THE DEF CON SHOOT YEAR FIVE OF THE DCSHOOT IS NOW OFFICIAL!

OK, people, this is what you've been waiting for. For the first time ever, we now finally have a DC-Shoot mailing list like it to make defcon shoot plans, talk about items, get advocacy, hunting, BBQ recipes, load data, etc. I'll send mail to majordomo@defcon.org with the words subscribe dcs shoot in the message body.

For complete information see the official and up to date DC-Shoot website.

DI ACTION: PERFORMING @ DEFCON 2001 "The music is abominable!" - Wino Schwartz

Some major changes to the event this year. Due to the fact that Defcon is growing so large we now have to use the Di room for speakers during the day. As of right now the Di room will be providing entertainment from 6pm-6am Friday and Saturday nights only. We had hoped to start Friday evening and go straight through till Sunday, but we need the space for speakers. This is going to limit the number of acts performing this year, but it should be a good party anyways.

Big change number two is the format. Traditionally we have had Industrial/Goth/EBM music on Friday night. This year we are looking to fill the Friday slot with more live acts during the evening and some good chillout DJs for the late night. The reason for this is simple, the Industrial/Goth/EBM music really doesn't bring anyone into the room. No point in having a party if no one shows up. Go to the Official DEF CON DJ site maintained by twentythree.org to get the band lineup.

THE DEF CON MOVIE CHANNEL

Starting on Friday and running until Sunday evening there will be a DEF CON Movie Channel.

Running on the hotel's closed caption system, people staying at the Albion Park can tune in to the channel to catch up on the history of hacking in movies. As many movies as we can pack in three days are somehow related to the hacking scene. See such classics as *The Net* and *Hackers* and such classics as *Colossus: The Forbin Project* and *Tron*. Complete schedule to be available at the show.

NEW: Stream from *The Iron Feather Journal* will be this year's V. Heavy play the movies, provide schedule updates, sort movies, a few video interviews, and random content when not running his booth.

TCP/IP DRINKING GAME

Ask the panel of hackers and security types questions...if no hacker answers the question, they drink. You see how this can get interesting quickly!

DEF CON GOES TO THE MOVIES

We are waiting to find out what movie we will try and screen at this year's show.

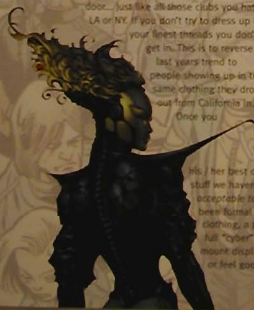
"BODY OF SECRETS" BOOK SIGNING

With author James Bamford and his new book, *Body of Secrets*, www.bamford.com will be signing his book, at 11PM, at the Defcon booth.



WHAT IF THEY MANAGE TO SURROUND THE ISLAND?

WE'RE SCREWED



CAPTURE THE FLAG CONTEST

You're changing the rules again, trying for more action, more risk & more network uptime. If you are truly confused or lost, the answers are waiting for you at the NOC.

There are two ways to win the contest:

Download the image from ctfing, the "old" h4x0r3d1ng w4r3n3t3r or use the copy this disk image to a floppy. Boot the floppy in a machine with a network card and dhcp. You've now got a web server and anonymous proxy server to attack. The goal of the contest is to deface the web site on the floppy. All methods are allowed, but the results will be judged on coolness & elegance, how small the email is, and who was the first person to mail in this type of attack.

No back doors were added, but there are some questionable system administration moves that should make a remote attack easier.

Teams: Each team is going to have a color, and should use Ethernet cables of that color. (DIT's going to spring for a box of red, white, blue, green, yellow, black and grey.) Each team will get an SSL client certificate that allows access to the central reporting web site.

Two weeks before defcon there was a hacking challenge involving a downloadable unix distribution or a programming problem (for the NT folks). First folks to solve the challenge got first choice on the colors. Winners from previous years are pre-qualified, they just need to come up with a new color.

Usually teams welcome new members during defcon, but you may have to show your stuff on the Grey net. Grey is Team All-of-the-Above, and is for anybody to plug into. Other teams may be added if we get more roster space. If you want to plug in a machine just to see what happens, go ahead & plug it in on the grey net.

The targets: The last three IP addresses of each subnet are the target/victim IP addresses. (That should be a big hint about what to scan.) Each team should have at least one machine capable of running VMware that they're willing to leave plugged in. VMware has donated some goodies for CTF, and we'll have a license that everybody can use during Defcon. (There's just any computer check in this year. Your team has to take care of your target machines).

How the game works:

Each team is going to have some likers, some Sysadmins & probably a mess of Hackers.

- Sysadmins win by getting the most points from hackers & likers.
- Sysadmins also get points for setting up new OSes.
- Sysadmins have a couple of options for how to set up hosts. Grab randomly from a bag of install disks & VMware images up on stage (20 points)
- Grab pre-made VMware images from the bag, (30 points)
- Bring your own net install architecture machines (5 points)
- Bring your own VMware images or premade install (5 points)
- Sysadmins get these points after the first liker report. (So there's some proof that the machine worked). Sysadmins can touch the keyboard to change out services or the whole OS an hour after the first liker report, when the machine is hacked, or when a judge takes pity on their fumbling with the install disks.
- In between setting up the OS & getting hacked, sysadmins are expected to go off & get drunk or watch the con. Go ahead & watch the console, but don't snipe attackers by hand.
- Users win by reporting on the services that the sysadmins on other teams have set up.
- Users get a point for being the first to report on a new service, and 30 points for reporting the highest total.
- Users can re-report on the same service every 3 hours.
- For each service you find on another team's box, make a connection to the recording web server & report (scale of 1-10, so it's high how cool the service is, how hard you think it would be to implement (complexity) risk/size of hacking. So someone who implemented a complete adventure game using forward and reverse lookups on blind

might get 10.5.) Reports from Grey net likers don't count but will influence the judge's decision. Hackers win by putting a file on the root partition of any machine not on their team, then reporting on the hack. Hackers win the total number of points given in the liker reports for that machine, plus any points the sysadmin may have let, plus 30 points for the hack.

Hackers will rank (scale of 1-10) the ease of the hack, how "easy" the service was, how easy it was to set the likers evaluation against the hacker's and coolness of the system that they hacked. So popping an anonymous popper that turns out to be running on NT might be 2.0/10.

Betting: If a team has a positive number of points, the sysadmins can choose to bet points that their machine or service won't be cracked. They have to find someone on the other teams to take that bet & work out the terms between them. The terms should be written on paper on the wall. Hacking teams can bet points they don't have, they just go into negative points when they lose.

Self-wit us:

Here's the order:

- Green sysadmin grabs a VMware disk from the bag
- Sysadmin fires up the image, tweaks it to run her chosen service(s)
- Red liker sees & logs the web site, (+2 points for liker)(plus 30 for sysadmin, since the site is shown to work)
- Red liker's takes the site for 7.5/2 (+14 to sysadmin)
- Yellow liker's takes the site at 8.5/3 (+10 to sysadmin)
- Yellow Hacker on roots a host the box (10x20=20 points for hacker)
- Yellow Hacker rates host as 8.5/3 (+16 to sysadmin)

So the total is Red =2, Green = 56, Yellow = 30

Rules: No coercive force, micky films or summoning of elder gods. No attacking the web server or central routers. Lane DOS attacks may cause the judges to disconnect your ethernet link. Root partitions must have at least 64k writable. The judges may make changes to keep things moving. (Think "Wait Wait don't tell me", not the olympics)

Strategy: If someone else has a cool service that's getting a lot of likers, have the hackers on your team steal it, THEN take them down.

Alliances may be profitable. Build cool (and very portable) services in advance. Pleading the crowd on the grey net may give you get awarded bonus points.

Getting hacked gives you points & the chance to change out your OS. So it is a valid strategy to put up lots of cool services that get hacked right away. A really cool service that stays up & keeps getting good liker feedback is equivalent to installing a lot of o/s & having them hacked right away. You get points for risky installs, but that costs you time. All of the scoring is fit for fat, not One round prisoners dilemma so it makes sense to give people at least average points.

Some cool service ideas:

- Don't lock things down so that it can't be hacked, or rely on a back door that nobody will ever scan for
- Deception and confusion about where the attacker is or has connected to, but not so much that no one can get past it (hints are good)
- Multiple servers interacting involving spoofing across a switch or router, or client with buffer overflows
- Something new with plaintext protocols (leastest over telnet with a new client)
- Just plain help apps (what mode quake)

How can you help? As usual, you'll need to bring switches, hubs, 10base T gear, etc. We're also going to need a lot of pre-made VMware images & strange Intel operating systems to put into the drawing bag, so start scouring for windows 2.0 if anybody is willing to run back on the contest & offer dollars for points, that would be great.

In 1997 it was Team SNI, in 1998 it was the Mad Swedish Hackers. In 1999 it was The Ghetto Hackers. In 2000 it was The Ghetto Hackers / Subterranean Security Group Combo... Who will it be in 2001?

CYBERETHICAL SURVIVOR: THE GAME

Ethics, Cyberethics, Kids, Hackers, and What about those Parents, huh? Computers are ethical, right? ... and we're not Foreign Government, too!

Ethics is that gray area between legal and illegal... and maybe your personal or corporate ethics are different that his or hers, or of someone from a different country or culture. Yet, we all need to live in the same "space". And that's the whole point of "Cyberethical Survivor". Cyberethical Survivor is an Interactive Game that pits 18 brave souls on 18 teams against each other. The object of the Game is to be...uh... the last one standing. A true Survival. How you get there is half the fun, but the judge (Jennifer Granick) and De Time Keeper and the Audience will be heavily involved in who becomes the Survivor! Think: Originality, Creativity, Positivity & Sticking to Time Evolve and Develop a Consistent Cyberethical Profile and Persona that Your Team Needs, Opponents and Audience Will Support Throughout the Game. Struggle! Complete with your team? Want winners or losers on your side? The other side? What does the audience want?

AUDIENCE PEOPLE: You get to play, too, by second-guessing and challenging the contestants on stage.

You can pick and choose who stays and who goes. Who is the most or least ethical... in your humble opinion? We'll have voting microphones so you can get your 2 cents in! Wouldn't we want our contestants to feel they're getting off easy, would we? In fact, you can make their cyberethical lives a tad miserable, if you choose.

LOSERS: There will be 37 losers, and they will all win something, just for playing. Nothing stupendous, but hey...you lost!

SIGN UP: Anyone can play. Kids, Spooks, Spies, Hackers, Suits. No age limits (this is a PG-13 game). Submit your name, affiliation and contact information at the NOC. We will draw names from a stupid hat at the beginning of the Game, Saturday, July 14, 2001.

WHAT THE SURVIVOR WANTS:

1. \$500 donation of ethics books in your name to the educational institution of your choice.

2. DeCon attendance free for life!

3. DeCon jacket

4. DeCon t-shirt

5. DeCon next year to defend your title!

HOST: Win Schwartz
www.nickids.com, www.interactive.com, www.infoworld.com

DA JUDGES: Jennifer Granick, Stanford Law; Chris Grogan, Courtesier; Richard Theme, Social Commentary

7TH ANNUARY HAZARD JOPARDY

Hacker jeopardy is Back!

Yep...DeCon fans just got coming and coming...So, for the 7th year in a row...we play Hacker jeopardy! It starts, as usual, at 10PM on Friday night for two games where the teams (of up to three people each) fight it out, duke it out and drink it out with questions to our answers. You know the Game. Winners win great gifts from Dark Tangle and DeCon. Losers get to drink. All players drink. (2x Only) Hacker jeopardy is rated Heavy R, NC-17 and one year it was nearly X, you are warned.

WHO CAN PLAY? Most people play pretty loosely...but you can try to submit. Submit your teams at the NOC and we'll pick you out of a hat before each game. One year a secret government group got so hacked, they didn't answer one question right. That was humiliating. For them.

AUDIENCE PLAYS: Yup! You get to play, too. DeCon ends up with tons of presents and gifts that we toss out to audience members who come up with the right questions...we got to get rid of all this stuff...one year we gave away a couple dozen Sun workstations! Plus, you can make fun of the contestants on stage. Be nasty. A little nasty, not a lot nasty. Don't want anyone arrested again for being TOO nasty.

WHEN: Friday, July 13, 2001, 10PM. Rounds One and Two. Saturday, July 14, 2001, 10PM. Rounds Three, and then the Final Round, where the winners from the first three Games compete. Last Year's winners can play in Final Round as Team #4, if they choose.



PREPARE FOR BEATINGS.



Uber Haxor Sessions

FX, Phoenix

ATTACKING CONTROL, ROUTING, AND TUNNELING PROTOCOLS

The protection of network communications depends on the security and integrity of the underlying communication layers. In the last years, many people devoted time to the research bugs and exploits on the application level and less interest was in the network layers.

We are going into the realm of protocols of OSI layer 2 and 3. The audience will get a quick overview on what layers 2 and 3 are about and which general attack approaches exist. Layer 2 will be covered quickly and attacks using well-known tools like Ettercap and Ettercap will be explained.

The primary part of the session will be focused on the abuse of ICMP and Interior Gateway Routing Protocol (IGMP). How to use for reconnaissance systems and for denial of service attacks will be covered as well. The focus will explain and show how to attack VPNs using GRE and how tunneling can enable you to circumvent NAT.

Thor

GRABBING USER CREDENTIALS VIA W2K ODBC LIBRARIES

Offir Arkib, The Sys-Security Group

INTRODUCING X: PLAYING TRICKS WITH ICMP

During my research with the "ICMP usage in Scanning" project, I have discovered some new active and passive scanning system fingerprinting methods using the ICMP protocol. Methods that are simple, efficient, and effective.

The active scanning system fingerprinting methods were not mentioned into a certain log. A log that would allow us to have the ability to use any available method in order to, when actively fingerprint an operating system.

In this talk will be reviewing a new active scanning system fingerprinting method using the active ICMP fingerprinting methods with the ICMP protocol. I have discovered, I will be explaining the built-in tools and the various active ICMP fingerprinting methods with ICMP fingerprinting and used with the tool.

The tool's limitations, ways to detect its usage, and how to detect its return from its abilities will also be discussed. Future plans and enhancements, which include a different approach to DNS detection, will be presented as well.

Robert Gull, CSC, NCC, Audit Project Leader; Michael Cohen, MBA, CIA, CISSP, GCI, CNA, Audit Project Leader

WINDOWS NT AND NOVELL NETOS BASED INTRUSION DETECTION USING NATIVE LOGGING AND 3RD PARTY LOG REPORTING TOOLS

Building is difficult for this presentation as the process of engineering system IDS audit logs to ensure information stored on computers is properly protected, and meets corporate security policies. This presentation will cover the Novell Netware 4.0 (NW) and Windows NT 4.0 (NT) operating systems. NW is capable of auditing Novell Netware (NWS) and file system actions, and NT for domain and file systems actions, performed on a company's NWS. Auditing tracks the following types of events:

- User Actions
- Resource Usage
- The System Security and Access Control
- Login and Logout Activity

NT and NW also includes auditing features to collect information about how a system is being used.

These features monitor events related to system security, to identify any security breaches, and to determine the extent and location of any damage. The level of audit events is adjustable to suit the needs of any organization. This presentation illustrates the usage of NT and NW security monitoring capabilities; however, the concepts apply to any platform.

The costs and benefits along with the weaknesses of such logging will also be addressed. While there are two major platforms that the software vendors would love to see upgraded, they are both still used in many organizations.

Mark Grimes, Network Security Researcher

TOP IN INTELLIGENT AGENTS: THE FUTURE OF ELECTRONIC WARFARE AND DEFENSE

The study of Artificial Intelligence brings many features to the development of both offensive and defensive network tools. Code can be designed to make "intelligent" decisions based on a preprogramed data sample. When rules are explicitly laid out by the user to indicate proper command handling, these rules can be modified and recalled. This would allow for an automated handling of network traffic, with decision making enhanced on next packet inspection.

The 2007 ICSS speech will focus on intelligence, information will be shared with respect to intelligence handling, more priority, as well as database and artificial intelligence optimizations. Examples in logic considerations will be broken down for simple attack scenarios. The specific design considerations and project goals will be discussed, a hands-on will be announced to open discussion on the code that has been developed to be used, and improvements of the overall design will be shown.

The Network Intelligence Agents will be used in Intrusions. The threat of Network is not yet discussed with examples cited from published sources, and they will be

contrasted with the introduction of components, that will make up the overall tools (networks, an agent, control module).

photek

WRITING BACK DOORS

This talk will be about the art of creating backdoors. Starting with automated shell scripts as an example, moving quickly to hand-written assembly and finally an introduction into writing kernel modules, and modifying existing ones using Linux in this case. In this talk there will be non-public code written especially for the talk. The rest of this is for the hacker in the other hackers. Probably other hackers, as you'll need to be at least be able to read some C, and the major focus will be on Linux kernel module creation and modification.

Phil King

8 BITS AND 8 PINS. MORE FUN WITH MICRO CONTROLLER HACKING

"Microcontrollers" are microprocessors with additional peripherals, I/O controls, and memory of both bits and pins.

Last year, Phil introduced the wonderful world of 8-bit micro controllers and showed how to set up your own project development kit. This year he looks at more fun, cute, and devious electronic devices you can build. This time focusing on micro controllers with only 8 pins. What can you do with just 8 pins of code space and only a few I/O lines?

More than you might imagine! We'll look at various fun projects, and see what can be done in small space and on a small budget. Bring your questions and project ideas. The people with the best ideas will go home with a complimentary AVR micro controller hardware development package.

This talk will have a fairly high fun-factor looking at micro controllers, but there will be talk about and examples of low-level code and hardware design. Some programming experience and electronics vocabulary will definitely make the material more understandable.

TechnoDragon

HARDWARE HOWS, HOW TO LOOK FOR THEM, WHAT TELLTALE SIGNS TO LOOK FOR, HOW TO IDENTIFY WHAT HARDWARE MOST LIKELY CAN BE MODIFIED, ETC.

Hardware mods. How ever worried what special features can be enabled in your hardware, or even designed for security reasons? Well, I will cover theory, fact and many designs covering identification and activation of hidden features whether they be hardware or software.

- Identification of features to perform mods in hardware
- How to manipulate mods and features and settings to enable mods.
- How to identify what extra features can be enabled in hardware
- List of what tools are required.
- Theory behind hardware mods and placement of mods in advanced devices.

Live demos will be performed on the platforms covered and tutorials on ways to go about discovering what mods can be performed on the hardware of your choice.

Raven Alder

A PERL SCRIPT THAT TRACKS DENIAL OF SERVICE ATTACKS ACROSS CROSS CROSS CROSS

Denial of Service attacks are well known in the security field, but in recent years distributed Denial of Service attacks have become more of a worry and a priority to ISPs. Recognizing when a DDoS attack is crossing your network is important, and being able to shut it down at your network's edge is even more so. But due to the increasing time of loading the source IP of a DDoS attack, correctly finding where the traffic is entering your network becomes more difficult. Rather than being able to trace back via normal routing methods, most tracing of spoofed addresses will be done by IP, and as a result, it is a large task. This can take hours, particularly when you consider that many DDoS attacks come from hundreds of different IP addresses.

There aren't many tools that can do this. In fact, I'm the only one. I have written a Perl script that tracks DDoS attacks back through a Cisco router. The script can handle spoofed IPs, and will run both on Cisco's older routers (Cisco serial) and on their Gigabit Switch Routers. This talk will present the script and provide a guided tour through the code to explain how and why it works.

Robert Muscy

SECURING CISCO ROUTERS

We will begin with basic IOS Commands to secure a router, looking at untrusted services and turning off services and protocols. From there we will look at configurations for defaulting basic attacks against your network, including DDOS, SMURF and other nasty things you can do to its routers. Next we will look at some Simple AAA and other tools you can do with them. I will also discuss the use of Encryption, RADIUS and other security measures you can use when making connections to multiple sites. For this I have assumed you have at least basic of TCP/IP. Basic Cisco IOS Commands, and the Internet and how it works! This talk is geared to Cisco routers but who have done basic networking skills.



Thomas J. Munn, InfoSecurity Analyst

USING OPEN BSD, SNORT, LINUX, AND A FEW OTHER TRICKS TO SET UP A TRANSPARENT, ACTIVE IDS

Basically I will cover:

- How to set up Snort Server in OpenBSD
- How to use Perl & Rules to actively adapt rules to attacks, and setting up a transparent IDS
- How to use ACID to make logs more easily accessible, and using a database to store logs
- How to use a database portion to look at historical attack data and trends
- How to set up "rule" management segment on your network, and how to make it accessible to you, but hard for "them" to get into.

Anders Ingeborn

DESIGNING SMALL PAYLOADS

This speech presents a number of ways to reduce the size of a payload for exploiting buffer overflows. It includes some code examples and a list of examples of situations when a small payload is needed (where the availability of time is restricted).

Bruce Potter & Adam

THE CAPTIVE PORTAL

Adam and I have been doing research on wireless security from a practical perspective. Basically discovering what's wrong with the current security models in fact is interesting and how they can be fixed or worked around.

Adam has developed a system called the Captive Portal that will allow wireless networks to be set up that are resistant to problems with local authentication and encryption schemes. The system is still in development, but will be "released" by conference time (as much as open source software gets released). In the coming months we will be writing a paper on the Captive Portal, how it works, what it's strengths and weaknesses are, and institutions are getting on going.

I will give the first part of the talk, Adam will give the second part that will deal directly with the Captive Portal. We will also setup a wireless network at BC to folks can try and hack the portal. We will also setup a wireless network at BC to folks can try and hack the portal. We will also setup a wireless network at BC to folks can try and hack the portal.

Kevin McPeake & Chris Goggans

FALLING DOMINOS

As the open source industry is moving to the ISO 27001 standard for the Definitive Messaging System, Lotus Notes / Domino is considered one of the most secure mail/message platforms in the world. With an installed base of more than 75 million corporate and government users, the product is used by almost all financial institutions. It is accounting firms, government's intelligence agencies and private organizations.

At DEFCON 8, Trust Factory co-founders Kevin McPeake and Michael Ashford presented several new vulnerabilities along with Chris Goggans, of Security Design International, who validated their research. Topics included known vulnerabilities and new ones, such as bypassing the Execution Control List, modifying Notes' email headers, and Identity Theft. Using a newly developed tool code named "Surrender", Trust Factory demonstrated weaknesses in the handling algorithms for internal passwords as well as the validation of Notes ID-fids obtained from remote networks and servers.

Now, for the first time in Defcon, Kevin and Chris will be returning to Las Vegas to present "Falling Dominoes" once again. Updated with all the latest tools, tips & tricks accumulated over the last year during their hacking research, Kevin and Chris will be demonstrating Domino web cooperative attacks will control & demonstrate how all of the vulnerabilities can be assembled to conduct Information Warfare.



Dan Kaminsky, CISP, <http://www.dsipens.com>

GATEWAY CRYPTOGRAPHY: HACKING IMPOSSIBLE TUNNELS THROUGH IMPOSSIBLE NETWORKS WITH OPENSSEN AND THE GNU PRIVACY GUARD

- Theory of Gateway Cryptography
- Methods of securely connecting remote firewalled hosts
- Tunneling over SSH into a VPN termination point without using VPN over SSH
- Dynamically Rekeyed OpenSSH
- PPTP over SSH
- Securely Tunneling to SSH
- Understanding Non-Configuration of OpenSSH
- SSH Compatibility Mode (improving everything with cat, tar, and bzip)

Dmitry Sklyarov, ElcomSoft Company

EBOOK SECURITY - THEORY AND PRACTICE

Security aspects of electronic books and documents, and a demonstration of how weak they are

- "Watermark" PDF encryption
- Why can't we use Password Protection Schemes (PCL, Rights by Rights Systems), Rights by Software Systems, Inc., Network Software Systems, Inc., Network Web Site, Network eBook Reader (Glennbrook Reader) and InfoSoft Bookbag plug-in

Documents published in electronic form have a lot of advantages against traditional paper publishing. You could easily find out all such advantages on web server of any company, which provides eBook services. But, nobody perfect, and there is one big problem that related with eBooks. Information in electronic form could be duplicated and distributed, and there is no reliable way to take control over this process. There are several solutions from different companies that were developed to prevent unauthorized distribution of the electronic documents.

Orlyx

KIS - KERNEL INTRUSION SYSTEM

This is the source of KIS, it is a well contained library that when executed on a system results that it will be based on reboot and loads a kernel module. The KISM files that, all of its submodules or derived processes, all of their files, documents, and network connections automatically. The presentation will consist of demonstrating how to setup and use KIS as well as explain some of the basic design concepts.

Jason Paul

CYBERPUNK-GRADE COVERT NETWORK CHANNELS

The genius, both open or in hostile network settings, used to communicate covertly via the Internet. They need to do so in a manner such that a well-informed officer cannot gain knowledge of the content of their transactions, nor even gain relative better plausible deniability that discrete communication is taking place. The presentation will be an exercise in understanding that how may be at stake.

An initial implementation in theory form as well as proof of concept code built and will be presented. By taking advantage of peripherals in many fields.

Analysis, cryptographic techniques applied to the network layer, and using digital information based on local traffic patterns and cryptographic control, the channel is effectively able to avoid detection and attack. Discussion concerning the theory, implementation, and political considerations is welcomed.

Ki

POLYMORPHIC SHELLCODE API

Polymorphism has been around for years in the form of virus attacks. There is a wealth of information pertaining to this. This presentation will consist with the implementation of an API designed to allow users to use their code flexibility. It will include within an encoded channel and deliver a number of additional features.

This code has been tested throughly against a number of MSN servers (MSN, MSN, MSN, and MSN), and has proven that as of yet, the code itself can not be detected at all. There are some possible methods of detection and it will be analyzed and future modifications to further refine these measures.

D-Krypt

WEB APPLICATION SECURITY

Rob Shein

EVALUATING VPN SOLUTIONS

This session will assist a terminology by which security professionals may independently examine the security of a VPN. We will cover basic concepts of key exchange and management, leading into a description of good and bad ways by which the two ends of a VPN connection arrive at the necessary shared secret. We will discuss common mistakes such as improper random seeding or key exchange, and step through a checklist of things to check. Finally, we will apply this methodology before the audience in the testing of a running VPN system, and demonstrate two vulnerabilities that exist.

Nick Farr

DESIGNING SECURE INTERFACES "FOR DUMMIES"

"The old adage holds that there is an inverse relationship between usability and security. The more user friendly the system, the less secure it is. However, recent user feedbacks research may have led us to design more usable, more secure operating system interfaces—Independent of the underlying OS architecture, the usability of the system."

By highlighting the graphical and subvisual cues prominently highlighted in popular OS interfaces, the speech will cover how users are betrayed by them, either into a state of paranoia or a false sense of security. The speech will show how both states can be used to exploit the system through the user.

As well, the guidelines for future interface design will be presented, showing how increasing the security of the interface can actually be used to increase, instead of erode, usability. While the talk is theoretical, such guidelines will be applied as integrated into the design of a work-in-progress Kiosk package currently under development.

Adam Bresson

DATA MINING WITH PHP

Bling Jong Lin; Chien Chun Lin; Jan He Su

SURVEY OF COUNTRY-WIDE WEB SERVER SECURITY

This presentation describes how we did the country-wide web server security evaluation in 1999 and 2000. It covers methodology and results. Also, we compared the difference between these two surveys, make some conclusion on current status and advises to the government. Vulnerable web servers by type and percentages as well as trends are covered.

General Sessions

Richard Thierme

HACKING A TRANS-PLANETARY NET: THE ESSENCE OF HACKING IN A CONTEXT OF PAN-GLOBAL CULTURE, THE TWEWARE / DRYWARE INTERFACE, AND GOING TO EUROPA

When Richard Thierme spoke at DefCon, he said hacking was practice for trans-planetary life in the 21st century. Well, guess what? It was. But a changing context has also changed what hacking looks like. Context is content, and what was hacking at MIT in a 1980 is just doesn't cut it any more. The essence of hacking is the same, but the game is played differently. When space war involves holographic image projection, cloning devices, multidimensional camouflage, micro-knowledge and the creation of synthetic environments that an adversary thinks are real... when robots are switched on to conduct heat and electricity... and the exploitation of Titan and Europa make Mars and the moon look like now suburbs... hacking means more than knowing how to spray paint a website or shut down a server. Hacking means an artist's imagination, an obsessive hunger for knowledge, and a deep understanding of cyber/humanity. Thierme illustrates the topography of that weird landscape.

New concepts, context is content. In what makes sense in one context no longer makes sense in another, what is what is so insecure is instantly in another, hacking in its essence is a way to approach life with identifiable qualities and characteristics... some are made and some can be learned. The ones that can be learned and how to learn them are spelled out, the attributes of hacking as it evolved in the codes, if translated whole hog into the 21st century, make you look like a dork. It's not about being a secret code, being inside attacks, or being a hacker. It is about the tools of imagination, the weapons of the mind, in a world of widespread deception, the practice of deception—the creation of illusions, the use of modulations, the practice of obfuscation—now examined in relationship to hacking as the quest to know the truth, specific, actually will be described, using the most current

human reasoning, including how to space the fusion of information and what space we through the "information web." The changing individuals of humanity in the cyber/human interface, with emphasis on individual culture and attributes in terms of enhancement, how life in space change people and changes the system, and the network how the new attributes of hacking can be changed into this way and what implications, multidimensionally, and with a light touch to give real space to users, hacking and modulate unity, identity into a work of art.

Peter Shipley

LOSS AND WAR DRIVING

Michael Wilson

HACKER DOCTRINE IN INFORMATION WARFARE

It is how an accepted fact that computer hackers, crackers, hacktivists, virus writers, and other politically active individuals in the computer underground are "hacking matters into their own hands." Whether through website defacement, full-scale denial of service attacks, non-governmental, non-aligned individuals and groups are consulting what the military refers to as "information operations" of increasing sophistication.

What is clearly missing in these independent operations, however, is a complete and thorough understanding of how to think about attacks, how to understand "information planning," and how to be truly effective. Based on our own understanding of practical applications in information warfare, "Hacker Nation" will present educational material on information operations that actively be in these "space" in a hacker's comprehensive understanding.

Marcus Anderson

FIREWALLING WIRELESS DEVICES

The different techniques for providing IP services over the air to handheld devices all pose some interesting questions about traditional wireless, how to firewall? What is the physical difference of being on the "radio" versus the "cable" of the firewall? How to implement proper security measures if there is no security on the physical layer? They can conclude that most base stations used for Radio LANs, regardless of technology (Bluetooth or IEEE 802.11) have coverage across the building. This means that if someone is in the parking lot, with a PC and a Bluetooth connection, one is connected to the office LAN.

The presentation suggests some architectural workarounds to some of these problems, namely for example to put all handheld devices on their "Bluetooth" network, and not on the "radio" of the firewall. Other suggestions are made on how to implement some security on the handheld devices themselves, in order to protect them from compromising the whole network, as is concerned "padding" in such a network would be. The topic of personal freedom and automated user accounts for handheld devices comes in at this level.

Some issues regarding implementing cryptography in different layers of the OSI model are discussed, as is both risks and verified security with current cryptographic implementations on the link layer (such as IPSec). A brief discussion on cryptographic protection and the impact on information detection this version can see what happens if the traffic is encrypted and user names located in the encrypted mail in included as well.





It is vital in the scope of the presentation to suggest a new practice, but rather to give information on the threat of these new technologies, so that risk management can take their own decisions based on that.

Jay Beale

ATTACKING & SECURING RED HAT LINUX HOW EFFECTIVE HAS BASTILLE LINUX BEEN?

This talk will demonstrate each of the major security enabled options against Red Hat i.e., before and after hardening the system with Bastille Linux. The speaker will cover, including how Bastille Linux was effective at mitigating/limiting attacks, when the speaker was ever active. This is not simply a "product demo" for an Open Source tool, though! He'll describe exactly what hardening steps are taken to combat each attack and illustrate how these prevented/contained a compromise.

Daniel J. Burroughs, Research Engineer

APPLYING INFORMATION WARFARE THEORY TO GENERATE A HIGHER LEVEL OF KNOWLEDGE FROM CURRENT IDS

The two greatest weaknesses of Intrusion Detection Systems (IDS) are the size of which they may be installed and their tendency to generate vast amounts of false alarms. Sophisticated attackers are able to easily spoof events, maintaining a low profile by

ignoring the attack both in time and (network) space. Meanwhile alerts are generated by normal user activity. IDS have not yet reached a level where they can reliably detect and assess advanced attacks while being able to separate normal user activities.

This presentation discusses the use of Information Warfare theory, combined with multiple target tracking algorithms to generate a higher level of knowledge from current IDS, instead of basing an IDS on the first sign of attack detection. It becomes the first sign. The IDS are treated as sensors on our network gathering information that is fed into a data fusion engine. By gathering information from different types of IDS and other sensors distributed throughout one or more networks, we can generate a higher level of knowledge, a situational awareness, that paints a much clearer picture of the activity on our networks.

By combining and fusing data gathered from many independent networks, it is possible to move away from the traditional defensive posture of network security. It is possible to move away from the traditional defensive posture of network security. It is possible to move away from the traditional defensive posture of network security. It is possible to move away from the traditional defensive posture of network security.

This presentation is based on research being conducted at the Institute for Security Technology Studies (ISTS), a federally funded research institute housed at Dartmouth College. A demonstration of the Data Fusion / Target Tracking system will be provided during the presentation.

Dr. Ian Goldberg, Zero-Knowledge Systems ARRANGING AN ANONYMOUS RENDEZVOUS: PRIVACY PROTECTION FOR INTERNET SERVICES

As the Internet grows in popularity around the world, we are beginning to see distinct between individuals and governments from different cultural backgrounds. Corporations, organizations, and legislators are using local laws to order that which they wish on other worldwide.

Much work has been and is going into producing privacy-enhancing technologies that protect clients of online interactive Internet services. In this talk, we present the "rendezvous server," a primitive which allows the formalization of any such technology into one which can equally protect the providers of those services.

It is our hope that being able to provide privacy for providers of online services, such as mailing lists, discussion groups, web sites, file servers, and chat rooms, they will be less susceptible to attack, and so will help prevent the Internet from becoming a place where the powerful can control the availability of common worldwide.

William L. Tafola, Ph.D., Professor of Criminal Justice, Governors State University

GENERAL SESSION OPENING TALK

Keith Nugent

WINDOWS 2000 SECURITY: HOW TO LOCK DOWN YOUR WIN9X BOXES

Windows 2000 provides a lot of new security features that were previously not available in earlier versions. The NT file system, however, has never been completely secure right out of the box. We'll be talking about how to use NTFS permissions, Default Security Templates, Custom Security Templates, and Group Policy to lock down a Windows box.

We'll look at what level of security is applied by default on a Win9x box, how to analyze these settings, adjust prepackaged settings, and how to apply identical settings across multiple boxes.

Brenno de Winter, CEO, DeWinter Information Solutions

IPV6 SECURITY

What's new. What are new risks? What are new opportunities. IIC NTFS Alternate Data Streams

Windows NT (NTFS) and Windows 2000 (NTFS) have powerful graphical user interfaces that make the job of assessing the security condition of and securing these operating systems considerably easier. Changing the bad login limit is, for example, relatively easy to both understand and do in both of these Windows operating systems.

Providing adequate security does not, however, always involve working with maximum features of applications, operating systems, and networks. Alternate Data Streams (ADS) are an example. This little-known feature available with the NT File System (NTFS) in NTFS 4.0 and WinFS (2000) has been available since the advent of NTFS in the first NT release, NT 3.11. Although this feature is relatively unknown by the vast majority of WNT users and administrators, it provides a potentially very powerful attack mechanism for malicious individuals intent on compromising and exploiting WNT and W2K systems.

What is an ADS? How can ADS be created and how can executives be run in them? How can they be misused in e.g., by having malicious executives run in them? How can they be found? This paper addresses these and other related issues concerning ADS and security considerations.

James Bamford, author, researcher

RESEARCHING SECRETS

Bryan Glancy

WEAKEST LINK

Presentation and demonstration of attack attempts against common security software. Highlighting use of common hacking tools to attack the weakest link in a distributed system. Identifying the weakest section of security architecture and attacking based upon it.

Demonstrations including:

- Windows based password attack programs (password generators)
- Windows based password (brute force) (*** thing)

Simple Nomad

WIDERSHINS: DE-EVOLUTION AND THE POLITICS OF TECHNOLOGY

Enrique Sanchez

DISTRIBUTED INTRUSION DETECTION SYSTEM EVASION (DIODE)

A fast connection is the new hot, and your IDS system can handle it. Your operating system can handle it. Can you handle it? A DIODE is not the worst thing that an attacker can do in a distributed way. A modern attack can take place while your IDS is just dropping packets, while it is just there checking an insurmountable amount of unused packets with anomalous connections.

There is no tool such as this, or in DIODE, distributes the attack ranging the amount of packets to be sent to the network to cause a flood to even modern connections in a timing and hidden way is the virtually impossible to hide it, combined with some security in generation an attacker could easily bypass the new security systems. He can bypass your IDS.

Bruce Schneier

BRUCE SCHNEIER ANSWERS QUESTIONS

Meet The FED Panel

JIM CHRISTY WILL BE MODERATING

This years panel will build on last years format. A brief introduction and statement from each of the panel members, and then right into Audience Questions and Answers. So for the Panel Includes: OSD - Paul Smullen (Information Assurance), GAO - Keith Rhodes (Chief Tech Officer), Arizona State Representative Wes Blanks (4th Senate), Interspace OPCS Support Staff

Newbie Sessions

Lisa Egan

RENAMEABLE WIRELESS NETWORKS, CREATING CONNECTIVITY ON DEMAND

A panel of wireless hackers will describe how ad-hoc open wireless networks have been successfully set up for various events and places, from small-scale gatherings to large neighborhood access, from how to create open wireless networks for all to use. Also, what is a failing without connectivity?

Dennis Salguero

THE BUSINESS SIDE OF STARTING YOUR OWN CONSULTING FIRM AND HOW THEY CAN SUCCEED

I currently run my own computer consulting firm and I think that I can help others, a brief experience in security, but obviously, there are similar skills that need to be there. I would cover things like:

- Incorporation
- Taxes
- Marketing
- Keeping the client happy
- Billing and getting paid



Robert Graham, CTO/Network ICE

PRINCIPLES OF CYBER ANARCHY THE DEFENDANT: SO YOU GOT YOUR LAME ASS SUED: A LEGAL NARRATIVE

"The Defendant" put up a website critical of his ex-employees, and within a week found himself in the center of a \$250,000 lawsuit, facing some of the most powerful lawyers and largest firms in the country. With a week to fight the restraining order put against him, he had to learn everything he needed to know about legal procedure, presenting a defense, and speaking to the press. Through this, he kept the website up, answered many questions, and became the lightning rod for hundreds of angry, misinformed employees. Come listen to what he learned, and get some ideas in case it's ever your case.

Barry J. Stiefel

NAT FOR NEWBIES AND NOT-SO-NEWBIES: A TUTORIAL

Network Address Translation (NAT) is a cheap and simple method for locating the effectiveness of your firewall. Properly configured NAT can help both your internal network structure from outsiders, "leakage" (unauthorized) connections from internal hosts, and prevent source IP address. This tutorial moves quickly through the basics, discusses a typical NAT configuration, describes NAT in action, summarizes the benefits of NAT, explains several potential pitfalls and shows how to configure DNS to accommodate the translated addresses.

Darilo D. Diaz, Esq.

DIGITAL MILLENNIUM COPYRIGHT ACT

A presentation of the DMCA, a discussion of the terms and meanings with specific reference to the technical aspect of the Act, a case law study of specific cases around the country (not many as the law is very new and untested), and the ramifications of specific "tackling" acts that may result in a violation of the Act.

Dr. QinetiQ AN OPEN SOURCE, INTERNATIONAL, ATTENUATED COMPUTER SECURITY

The continued proliferation of global information networks has left security vulnerable to the digital revolution. Computer viruses can monitor this vulnerability by establishing an open-source information system, using strategies from medicine. This paper discusses the growing need for well-designed computer viruses. This paper also discusses the design, implementation, and distribution of an open-source, international, attenuated computer virus.

Shafter THE NEWBIES: INFORMATION FOR PEOPLE NEW TO CRYPTOGRAPHY, HACKING OR DEFCON.

INTRODUCTION: How to approach people, talk with people, introduce yourself and how not to be a jerk. Examples will include real life situations, stories from past cons, and even things that happened the night before.

DEFCON: Why are you here, and what are you doing? What is your motivation to be here? Why do you want to be here?

HACKING: As included in this session is the concept of ethics, how your actions affect yourself, others, and the net at large, responsibility for your actions, and the differences of computer hacking, net hacking, and why not hackers don't want both. Examples: Where to go to learn, proper steps to true knowledge, and how to avoid the feeling of being a wimp. Knowing the difference between downloading a useful program for your use and grabbing a script and running it. Examples: Where the media don't tell you, why hacking is easier on tv and the real world.

Ryan Lackey

HACKED: ONE YEAR LATER

How's it possible seven months later in the Principality of Sealand, in the North Sea, to a wide range of clients. We've gotten a lot of press in the past year, still, we get a lot of questions.

Why do people go offshore in the first place?
What can they gain?
Isn't they at just software piracy and pornography?
Can online computer infrastructure offshore after they get caught?
What is the like on Sealand?
Do you have photographs?
Can I visit?
Why don't you offer short courses?
Is Sealand really a country? Is the UK going to invade?
Are you going to set up other offshores?

I will try to answer these questions, and will present a slide show walkthrough of Sealand, information about our network and physical infrastructure, and information about current clients, in addition, I'll discuss some of our current development projects, and how our services can be useful to you privately here around the world.

David Gessel/Super Dave, of the DC INTRODUCTION TO QUANTUM CRYPTOGRAPHY

The subject is Quantum Cryptography, and the scope of the paper will be targeted toward a lay audience with a basic understanding of physics (what is an electron, a photon, etc.), computers (what they deal with binary information), and cryptography (what combining data with noise makes the data unreadable unless the noise is removed).

I will move quickly and at a basic level through the quantum physics involved and the cryptographic principles and leave the audience with an understanding of the state and potential of quantum computing and quantum cryptography.

John L. Dodge, Bernadette H. Schell LAURENTIAN UNIVERSITY HACKER STUDY UPDATE

Laurentian University's Hacker Research Team from Sudbury Ontario Canada interviewed and surveyed self-proclaimed hackers at Def Con II in Las Vegas and at the New York City in July 2000. The objective of the study was an attempt to give a balanced view on hackers - including the "white hat" and the "black hat". Its intent was to collect information that would give a realistic picture of the way hackers think, feel, and behave rather than some unbalanced and confused picture based on the media or insiders. The 2-page questionnaire had five parts: hacker demographics, self-worth and mind/body symptoms, (II) routine behaviors, (IV) respondent's likes and dislikes and (V) decisions regarding work and/or school.

The media and academic writers have created many hacker myths based on their feelings or observations. Are they supported by fact or are they just fiction? Of the 20 hacker myths investigated we will present which are supported by the questionnaire data and which are not. We begin to crack the myths with a balance view.

Shard SECURITY & PRIVACY ARE CRITICALLY IMPORTANT ISSUES IN TODAYS DIGITALLY CONNECTED AGE

The digital realm is bristling unaware of the dangers that lurk each time he or she gets connected. Others consider security to be a "black art", too complex to understand - and therefore shroud anything to do with it.

This session serves as an introduction to the dangers that today's technology networked existence. Besides presenting an overview of serious attacks, the talk tries to demystify them by explaining the "how it works" of the attacks.

We move from basic to more sophisticated attacks, cover a "proof of concept" case study and consider the counter measures possible. The session aims to serve as a starting point for all those interested in safe guarding their online existence, for those responsible for their organization's security issues and for just about anyone who is interested in security.

Dan Moniz

THE IMPACT OF P2P ON SECURITY IN THE ENTERPRISE

Increasing decentralization of the network means more and more users are finding interesting things to do with the resources at their disposal. In the wake of watershed decentralized applications such as Napster, many commercial and open source efforts are producing so-called "peer-to-peer" (P2P) or decentralized applications and computing frameworks. The growth of P2P, decentralization, and distributed computing as a fundamental architecture has serious implications for the way security is handled, not only in the wilds of public networks like the Internet, but also in closed enterprise environments. Like it or not, users will be using these apps and participating in these networks. It behooves every security administrator to become familiar with the nature of P2P systems and to understand both the potential threats and possible benefits of such systems, as well as to anticipate user adoption and related issues.

John G. Newman

HOW BACKGROUND INVESTIGATIONS ARE CONDUCTED & HOW THEY CAN BE OVERTAKEN



Freaky

OS/X AND MACINTOSH SECURITY

Macintosh Security has gone unnoticed by the public for many years, until recently it has become a topic due to the release of Apple's Mac OS X. With BSD functionality there is a whole new realm of security issues to be discussed.

This session will include the following:

- Secure installation of Mac OS X
- Configuring the firewall functionality
- SSH on Mac OS X
- Mac OS X Virus Protection
- Mac OS X Security Bugfixes
- Using security risk kits
- Obtaining Root
- Denial of Service attacks
- Mac OS X hacks & tricks

You will also learn about the latest Macintosh security / hacking tools and see demonstrations of new apps. Plus Q&A at the end, and a guest speaker from the Macintosh Underground group. (Attendance has a special announcement!)



recess, and the you don't get a figure job by getting bullied for hacking a .gov website. Defining some of the myths that the gov's and private sector look for the two halves to live from the bits of connected hackers.

WAKE UP! GET FROM HERE! What you can get out of defcon, what you can learn, and what to go after you name a major highlight.

This is the general idea of the lecture, some overall concepts from last year, but the session is dynamic and updated to always remain current.

Jim Sassaman, Security Architect & Technology Consultant

WHAT IS SSL, A CA AND FREECERT?

The goal of SSL is to provide low or low-cost certificate authority services to individuals and organizations with limited budgets, as well as raise awareness of the services that CA's actually provide.

Many users of the Internet today are unaware of what role a CA plays in the process of secure website viewing. In my presentation, I intend to give a brief explanation of what SSL really is and what it is that a CA does. I will explain what the browser warning means to the user, and what to do when encountering them. I will discuss the various of issuing CAs, and methods of ensuring that certificates are valid when the user is ultimately trusted.

Following this, I will present details about what it does and does not mean to individuals, what can benefit from it, and how it will evolve these goals. Discussion on becoming involved in the development of FreeCert will be provided, and attendees will be able to be involved.

Jeffrey Grack

EUROPEAN CYBERCRIME TREATY

**Defcon 2001
Schedule**
FRIDAY • JULY 13

	Uber Haxor	General	Newbie
10:00 - 10:30	Bing Jang Lin, Chieh Chiu Lin, Jui-Chen Su A Survey of Country-Wide Web Server Security	William L. Talty General Session Opening Presentation	Freaky OS/X and Macintosh Security
11:00 - 11:30	Jason Peck Cyberpunk Grade Covert Network Channels	Bruce Schneier Bruce Schneier Answers Questions	Shard Security & Privacy—An Introduction To Some Interesting Concepts
12:00 - 12:30	FX Attacking Control, Routing & Tunneling Protocols	James Bamford Researching Secrets (Book signing immediately following)	Slarten FAQ For The Newbies: Information For People New To Security, Hacking or Defcon
13:00 - 13:30	Mark Grimes TCP/IP Intelligent Agents: The Future of Electronic Warfare & Defense	Simple Normal WiderShadows De-evolution & the Politics of Technology	Dennis Salguero The Business Side of Starting Your Own Consulting Firm and How They Can Succeed
14:00 - 14:30	ph0t0x Writing Back Doors	Kevin McPeak & Chris Goggans Falling Dominoes	Robert Graham Principles of Cyber Anarchy
15:00 - 15:30	TechnoDragon Hardware Mods, How To Look For Them	Marcus Andersson Firewalling Wireless Devices	Barry J. Stiefel NAT For Newbies and Not-So-Newbies: A Tutorial
16:00 - 16:30	Raven Alder A Perl Script that Tracks Denial of Service Attacks Across Cisco Backbones		
17:00 - 17:30	Adam Brinson Data Mining with PHP	CyberEthical Survivor: The Game	
18:00 - 18:30	Nick Farr Designing Secure Interfaces "for Dummies"	Movie: TBA	
20:00 - 20:30		Haxor Jeopardy Round 1	
23:00 - 23:30			

SATURDAY • JULY 14

10:00 - 10:30	Otten KIS—Kernel Intrusion System	Daniel J. Burningham Applying Information Warfare Theory to Generate a Higher Level of Knowledge From Current IDS	Dr. Cyrus Peikari An Open-source, International, Attenuated Computer Virus
11:00 - 11:30	Bruce Potter & Adam The Captive Portal	Dr. Ian Goldberg Arranging an Anonymous Rendezvous: Privacy Protection for Internet Servers	Lise Elam Renegade Wireless Networks
12:00 - 12:30	Olaf Arkin Introducing X - Playing Tricks with ICMP	Jay Beale Attacking & Securing Red Hat AXA How Effective Has Bastille Linux Been?	Lee Sassaman What is SSL, a CA & FreeCert?
13:00 - 13:30	Robert Gill, Michael Cohen Windows NT and Novell Net Based Intrusion Detection Using Native Logging & 3rd Party Log Reporting Tools	Thor Grabbing User Credentials via W2k ODBC Libraries	Dario D. Diaz Digital Millennium Copyright Act
14:00 - 14:30	D-Krypt Web Application Security	cDC Hacking Panel	John Q. Newman How Background Investigations Are Conducted & How They Can Be Defeated
15:00 - 15:30		Jim Christy Meet the FED Panel	Michael Wilson Hacker Doctrine in Information Warfare
16:00 - 16:30	Thomas J. Mann Using Open BSD, Ssl, Linux & a Few Other Tricks To Set-up a Transparent, ACTIVE IDS	Bryan Glancy Weakest Link	The Defendant So You Got Your Lame Ass sued: A Legal Narrative
17:00 - 17:30	K2 Polymorphic Shellcode API	Peter Shipley 802.11b War Driving	
18:00 - 18:30	Rob Stein Evaluating VPN Solutions	Enrique Sanchez Distributed Intrusion Detection System Evasion	
19:00 - 19:30		Social Engineering Contest	
20:00 - 22:30		TCP/IP Drinking Game	
23:00 - 23:30		Haxor Jeopardy Round 2	

SUNDAY • JULY 15

10:00 - 10:30	Anders Ingerborn Designing Small Payloads	Richard Thorne Hacking a Trans-Planetary Net: The Essence of Hacking in a Context of Pan-global Culture, the Software / dryware Interface, and Going to Europe	David Gessel Intro to Quantum Cryptography
11:00 - 11:30	Robert Muncy Securing Cisco Routers	Benoit de Winter IP V6 Security	Jennifer Granick European Cybercrime Treaty
12:00 - 12:30	Phil King 8 Bits & 8 Pins: More Fun With Micro Controller Hacking	Keith Nugent Windows 2000 Security: How To Lock Down Your Win32 Boxes	Ryan Lackey HavenCo
13:00 - 13:30	Dan Kaminsky & Andy Malphey Gateway Cryptography: Hacking Impossible Tunnels Through Improbable Networks with OpenSSH & the GNU Privacy Guard		John L. Dodge & Bernadette H. Schell Laurentian University Hacker Study Update
14:00 - 14:30	Dmitry Sklyarov eBooks Security—Theory and Practice	HC NTPS Alternate Data Streams	Dan Moniz The Impact of P2P on Security in the Enterprise
15:00 - 15:30	DEF CON Awards Ceremony: CTF, Scavenger Hunt, Coffee Wars & Social Engineering Contest Prizes Awarded		
16:00 - 16:30	Thanks for coming! DEF CON closes up, but feel free to hang out		