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Five courses on CYBER DEFENSE ETHICAL HACKING DIGITAL FORENSICS SECURITY MANAGEMENT

“This course is most applicable with a direct business value, and is exactly what the defenders need.”
-David Grotenberg, TECO Energy

SAVE $400 when you register and pay by September 14th using code EarlyBird2016

www.sans.org/miami
SANS Instructors
SANS instructors are real-world practitioners who specialize in the subjects they teach. All instructors undergo rigorous training and testing in order to teach SANS courses. This guarantees that what you learn in class will be up to date and relevant to your job. The SANS Miami 2016 lineup of instructors includes:

- **Ted Demopoulos**
  Certified Instructor
  @TedDemop

- **Ronald Hamann**
  SANS Instructor
  @airforceteacher

- **Paul A. Henry**
  Senior Instructor
  @phenrycissp

- **Keith Palmgren**
  Senior Instructor
  @kpalmgren

- **Anuj Soni**
  Certified Instructor
  @asoni

Evening Bonus Sessions
Take advantage of these extra evening presentations and add more value to your training. Learn more on page 7.

**KEYNOTE:** *Debunking the Complex Password Myth* – Keith Palmgren

**Infosec Rock Star:** *Geek Will Only Get You So Far* – Ted Demopoulos

**Evolving Threats** – Paul A. Henry

**Purple Teaming:** *Red and Blue, Not Red vs. Blue* – Jorge Orchilles

**Need for Speed:** *Malware Edition* – Anuj Soni

**Developers:** *Five Things I Want You to Keep Doing* – Ron Hamann

The training campus for SANS Miami 2016 is in the contemporary, 22-story boutique-style Sonesta Coconut Grove Miami, just steps from the fashionable shopping, dining and nightlife of CocoWalk.

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Courses-at-a-Glance

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REMEMBER
the SANS promise:
You will be able to apply
our information security
training the day you get
back to the office!

EXPLORE
• Read this brochure and note the
courses that will enhance your role
in your organization
• Use the Career Roadmap
(www.sans.org/media/security-training/roadmap.pdf)
to plan your growth in your chosen career path

RELATE
• Consider how security needs in your workplace will be met
with the knowledge you’ll gain in a SANS course
• Know the education you receive will make you an expert
resource for your team

VALIDATE
• Pursue a GIAC Certification after your training to validate
your new expertise
• Add a NetWars challenge to your SANS experience to prove
your hands-on skills

SAVE
• Register early to pay less using early-bird specials
• Consider the SANS Voucher Program or bundled course
packages to make the most of your training budget

ADD VALUE
• Network with fellow security experts in
your industry
• Prepare thoughts and questions before
arriving to share with the group
• Attend SANS@Night talks and
activities to gain even more knowledge
and experience from instructors and
peers alike

ALTERNATIVES
• If you cannot attend a live training
event in person, attend the courses
virtually via SANS Simulcast
• Use SANS OnDemand or vLive to
complete the same training online from
anywhere in the world, at any time

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• Bring the value of SANS training to your
career and organization by registering
for a course today, or contact us at
301-654-SANS with further questions

Return on Investment
SANS live training is recognized as the best
resource in the world for information security
education. With SANS, you gain significant
returns on your InfoSec investment. Through
our intensive immersion classes, our training is
designed to help your staff master the practical
steps necessary for defending systems and
networks against the most dangerous threats –
the ones being actively exploited.

The Value of SANS Training & YOU
SEC301: Intro to Information Security

To determine if the SANS SEC301 course is right for you, ask yourself five simple questions:

> Are you new to information security and in need of an introduction to the fundamentals?
> Are you bombarded with complex technical security terms that you don’t understand?
> Are you a non-IT security manager who lays awake at night worrying that your company will be the next mega-breach headline story on the 6 o’clock news?
> Do you need to be conversant in basic security concepts, principles, and terms, even if you don’t need “deep in the weeds” detail?
> Have you decided to make a career change to take advantage of the job opportunities in information security and need formal training/certification?

If you answer yes to any of these questions, the SEC301: Introduction to Information Security training course is for you. Jump-start your security knowledge by receiving insight and instruction from real-world security experts on critical introductory topics that are fundamental to information security. This completely revised five-day comprehensive course covers everything from core terminology to the basics of computer networks, security policies, incident response, passwords, and even an introduction to cryptographic principles.

This course is designed for students who have no prior knowledge of security and limited knowledge of technology. The hands-on, step-by-step teaching approach will enable you to grasp all of the information presented even if some of the topics are new to you. You’ll learn the fundamentals of information security that will serve as the foundation of your InfoSec skills and knowledge for years to come.

Authored by a security professional with over 30 years of experience in both the public and private sectors, SEC301 provides uncompromising real-world insight from start to finish. The course prepares you for the Global Information Security Fundamentals (GISF) certification test, as well as for the next course up the line, SEC401: Security Essentials Bootcamp. It also delivers on the SANS promise: You will be able to use the knowledge and skills you learn in SEC301 as soon as you return to work.

“The course is excellent as is! Great flow from topic to topic.”
-Danielle Alexander, Bechtel

“…the basis for my new knowledge of computer cyber-crimes for law enforcement. This course will help with our investigation and detection of cyber-fraud in the field.”
-Justine Kileen, NYPD

Register at www.sans.org/miami | 301-654-SANS (7267)
SEC401: Security Essentials Bootcamp Style  

Learn the most effective steps to prevent attacks and detect adversaries with actionable techniques that you can directly apply when you get back to work. Learn tips and tricks from the experts so that you can win the battle against the wide range of cyber adversaries that want to harm your environment.

Learn to build a security roadmap that can scale today and into the future.

SEC401: Security Essentials Bootcamp Style is focused on teaching you the essential information security skills and techniques you need to protect and secure your organization’s critical information assets and business systems. This course will show you how to prevent your organization’s security problems from being headline news in the Wall Street Journal.

With the rise of advanced persistent threats, it is almost inevitable that organizations will be targeted. Whether the attacker is successful in penetrating an organization’s network depends on the effectiveness of the organization’s defense. Defending against attacks is an ongoing challenge, with new threats emerging all of the time, including the next generation of threats. Organizations need to understand what really works in cybersecurity. What has worked, and will always work, is taking a risk-based approach to cyber defense. Before your organization spends a dollar of its IT budget or allocates any resources or time to anything in the name of cybersecurity, three questions must be answered:

▷ What is the risk?  
▷ Is it the highest priority risk?  
▷ What is the most cost-effective way to reduce the risk?

Security is all about making sure you focus on the right areas of defense. In SEC401 you will learn the language and underlying theory of computer and information security. You will gain the essential and effective security knowledge you’ll need if you are given the responsibility for securing systems and/or organizations. This course meets both of the key promises SANS makes to our students: (1) You will learn up-to-the-minute skills you can put into practice immediately upon returning to work; and (2) You will be taught by the best security instructors in the industry.

Who Should Attend

▷ Security professionals who want to fill the gaps in their understanding of technical information security
▷ Managers who want to understand information security beyond simple terminology and concepts
▷ Operations personnel who do not have security as their primary job function but need an understanding of security to be effective
▷ IT engineers and supervisors who need to know how to build a defensible network against attacks
▷ Forensic analysts, penetration testers, and auditors who need a solid foundation of security principles so they can be as effective as possible at their jobs
▷ Anyone new to information security with some background in information systems and networking

For course updates, prerequisites, special notes, or laptop requirements, visit www.sans.org/event/miami-2016/courses
SECE04: Hacker Tools, Techniques, Exploits, and Incident Handling

Six-Day Program
Mon, Nov 7 - Sat, Nov 12
9:00am - 7:15pm (Day 1)
9:00am - 5:00pm (Days 2-6)
37 CPEs
Laptop Required
Instructor: Ronald Hamann

The Internet is full of powerful hacking tools and bad guys using them extensively. If your organization has an Internet connection or one or two disgruntled employees (and whose does not!), your computer systems will get attacked. From the five, ten, or even one hundred daily probes against your Internet infrastructure to the malicious insider slowly creeping through your most vital information assets, attackers are targeting your systems with increasing viciousness and stealth. As defenders, it is essential we understand these hacking tools and techniques.

“SEC504 teaches you methods for testing your defenses and how to identify weaknesses in your network and systems.”
-Rene Graf, Federal Home Loan Bank

This course enables you to turn the tables on computer attackers by helping you understand their tactics and strategies in detail, giving you hands-on experience in finding vulnerabilities and discovering intrusions, and equipping you with a comprehensive incident handling plan. It addresses the latest cutting-edge insidious attack vectors, the “oldie-but-goodie” attacks that are still prevalent, and everything in between. Instead of merely teaching a few hack attack tricks, this course provides a time-tested, step-by-step process for responding to computer incidents, and a detailed description of how attackers undermine systems so you can prepare for, detect, and respond to attacks. In addition, the course explores the legal issues associated with responding to computer attacks, including employee monitoring, working with law enforcement, and handling evidence. Finally, students will participate in a hands-on workshop that focuses on scanning for, exploiting, and defending systems. This will enable you to discover the holes in your system before the bad guys do!

The course is particularly well-suited to individuals who lead or are a part of an incident handling team. General security practitioners, system administrators, and security architects will benefit by understanding how to design, build, and operate their systems to prevent, detect, and respond to attacks.

This course really puts the state of things in perspective. We need to be proactive to combat the threats of the Internet, and this is a great place to start.”
-Jonathan Mamah, McHenry Company

Who Should Attend
- Incident handlers
- Leaders of incident handling teams
- System administrators who are on the front lines defending their systems and responding to attacks
- Other security personnel who are first responders when systems come under attack

Who Should Attend
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Ronald Hamann  SANS Instructor
Ron is a retired U.S. Air Force officer with almost 20 years experience in various areas of IT, from software development to system administration, security, and Cyber Command and Control. Ron analyzed and developed security orders for the Air Force network, and is adept at breaking down technical security issues for senior leaders and lay people. Ron also was an accomplished security instructor for the Air Force, teaching over 30 security classes to Air Force officers, enlisted personnel, and civilians.  @airforceteacher
Anuj Soni is a Senior Threat Researcher at Cylance, where he performs malware research and reverse engineering activities. Since entering the information security field in 2005, Anuj has performed numerous intrusion investigations to help government and commercial clients mitigate attacks against the enterprise. His malware hunt skills and technical analysis abilities have resulted in the successful identification, containment, and remediation of multiple threat actor groups. Anuj has analyzed hundreds of malware samples to assess function, purpose, and impact, and his recommendations have improved the security posture of the organizations he supports.

FOR508: Advanced Digital Forensics and Incident Response will help you determine:

- How the breach occurred
- How systems were affected and compromised
- What attackers took or changed
- How to contain and mitigate the incident

DAY 0: A 3-letter government agency contacts you to say critical information was stolen through a targeted attack on your organization. They won’t tell how they know, but they identify several breached systems within your enterprise. An advanced persistent threat adversary, aka an APT, is likely involved — the most sophisticated threat you are likely to face in your efforts to defend your systems and data.

Over 80% of all breach victims learn of a compromise from third-party notifications, not from internal security teams. In most cases, adversaries have been rummaging through your network undetected for months or even years.

“I liked the focus on doing the things that matter most in an incident response, and I learned a lot during time-line labs about the importance of knowing how the timesharing is modified.” - NIKLAS ANDERSSON, CoreSec Systems

Incident response tactics and procedures have evolved rapidly over the past several years. Data breaches and intrusions are growing more complex. Adversaries are no longer compromising one or two systems in your enterprise; they are compromising hundreds. Your team can no longer afford antiquated incident response techniques that fail to properly identify compromised systems, provide ineffective containment of the breach, and ultimately fail to rapidly remediate the incident.

This in-depth incident response course provides responders with advanced skills to hunt down, counter, and recover from a wide range of threats within enterprise networks, including APT adversaries, organized crime syndicates, and hactivism. Constantly updated, FOR508 addresses today’s incidents by providing hands-on incident response tactics and techniques that elite responders are successfully using in real-world breach cases.

“Great material and instructor, the lab scenarios were very well done and fun to investigate.” - BRIAN THIIS, LOCKHEED MARTIN

Who Should Attend
- Incident response team leaders and members
- Security Operations Center personnel and information security practitioners
- Experienced digital forensic analysts
- System administrators
- Federal agents and law enforcement
- Red team members, penetration testers, and exploit developers
- SANS FOR408 and SEC504 graduates
Ted Demopoulos

As security professionals we have seen the landscape change. Cybersecurity is now more vital and relevant to the growth of your organization than ever before. As a result, information security teams have more visibility, more budget, and more opportunity. However, with this increased responsibility comes more scrutiny.

This course teaches security professionals how to do three things:

- **Develop Strategic Plans**
  
  Strategic planning is hard for people in IT and IT security because we spend so much time responding and reacting. We almost never get to practice until we get promoted to a senior position and then we are not equipped with the skills we need to run with the pack. Learn how to develop strategic plans that resonate with other IT and business leaders.

- **Create Effective Information Security Policy**
  
  Policy is a manager’s opportunity to express expectations for the workforce, set the boundaries of acceptable behavior, and empower people to do what they ought to be doing. It is easy to get wrong. Have you ever seen a policy and your response was, “No way, I am not going to do that?” Policy must be aligned with an organization’s culture. We will break down the steps to policy development so that you have the ability to develop and assess policy to successfully guide your organization.

- **Develop Management and Leadership Skills**
  
  Leadership is a capability that must be learned, exercised and developed to better ensure organizational success. Strong leadership is brought about primarily through selfless devotion to the organization and staff, tireless effort in setting the example, and the vision to see and effectively use available resources toward the end goal. Effective leadership entails persuading team members to accomplish their objectives while removing obstacles and maintaining the well-being of the team in support of the organization’s mission. Learn to utilize management tools and frameworks to better lead, inspire, and motivate your teams.

**Who Should Attend**

- CISOs
- Information security officers
- Security directors
- Security managers
- Aspiring security leaders
- Other security personnel who have team-lead or management responsibilities

**Ted Demopoulos**

Ted Demopoulos’ first significant exposure to computers was in 1977 when he had unlimited access to his high school’s PDP-11 and hacked at it incessantly. He consequently almost flunked out but learned he liked playing with computers a lot. His business pursuits began in college and have been ongoing ever since. His background includes over 25 years of experience in information security and business, including 20+ years as an independent consultant. Ted helped start a successful information security company, was the CTO at a “textbook failure” of a software startup, and has advised several other businesses. Ted is a frequent speaker at conferences and other events, quoted often by the press. He also has written two books on social media, has an ongoing software concern in Austin, Texas in the virtualization space, and is the recipient of a Department of Defense Award of Excellence. In his spare time, he is a food and wine geek, enjoys flyfishing, and plays with his children. 

@TedDemop
Perhaps the worst advice you can give a user is “choose a complex password.” The result is the impossible-to-remember password requiring the infamous sticky note on the monitor. In addition, that password gets used at a dozen sites at home, AND the very same password gets used at work. The final result ends up being the devastating password compromise. In this one-hour talk, we will look at the technical and non-technical (human nature) issues behind passwords. Attendees will gain a more complete understanding of passwords and receive solid advice on creating more easily remembered AND significantly stronger passwords at work and at home, for their users, for themselves and even for their children.

**Infosec Rock Star: Geek Will Only Get You So Far**

Ted Demopoulos

Some of us are so effective, and well known, that the term “Rock Stars” is entirely accurate. What kind of skills do Rock Stars have and wannabe Rock Stars need to develop? Although we personally may never be swamped by groupies, we can learn the skills to be more effective, well respected, and well paid. Obviously it’s not just about technology; in fact most of us are very good at the technology part. And although the myth of the Geek with zero social skills is just that, a myth, the fact is that increasing our skills more on the social and business side will make most of us more effective at what we do than learning how to read hex better while standing on our heads, becoming “One with Metasploit,” or understanding the latest hot technologies.

**Evolving Threats**

Paul A. Henry

For nearly two decades, defenders have fallen into the “Crowd Mentality Trap” and have simply settled on doing the same thing everyone else was doing. While at the same time, attackers have clearly evolved both in terms of malware delivery vectors and attack methodology. Today our defenses focus primarily on the gateway and upon attempting to outwit attackers’ delivery methods. This leaves us woefully exposed and according to a recent Data Breach Report, it has resulted in 3,765 incidents, 806 million records exposed, and $157 billion in data breach costs in only the past six years. The Evolving Threats presentation is updated monthly and provides insight into mitigations of our most current threats.

**Purple Teaming: Red and Blue, Not Red vs. Blue**

Jorge Orchilles

We have all heard that defense should inform offense and that offense should inform defense. How does this work from a practical perspective? In this talk, we will cover the evolution of Red Teaming to bring more value to the Blue Teams and vice-versa by introducing a new perspective, the Purple Team. We will present a test case of how Red Teams can bring value to incident responders and how incident responders bring value to Red Teams.

**Need for Speed: Malware Edition**

Anuj Soni

Performing malware analysis can be a thrilling activity, but it can also be time-consuming and tedious. During this talk, I’ll use real malware samples to propose strategies to accelerate the malicious code analysis process. Whether you’re new to this topic area or familiar with its challenges, this discussion will give you an appreciation for reverse engineering and equip you with tips and tricks to speed up your investigation.

**Developers: Five Things I Want You to Keep Doing**

Ron Hamann

I want a new boat. If you guys will keep making these mistakes, I’ll keep getting billable hours and can buy an even bigger boat! Tongue in cheek title for overview of development errors in web and desktop applications that cause major security flaws and loss of customer data.
Computer-based Training for Your Employees

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-ROBERT JONES, TEAM JONES, INC.

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-CHRISTINA FORD, DEPARTMENT OF COMMERCE

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To open a Voucher Account, an organization pays an agreed-upon training investment. Based on the amount of the training investment, an organization could be eligible to receive bonus funds.

The investment and bonus funds:
- Can be applied to any live or online SANS training course, SANS Summit, GIAC certification, or certification renewal*
- Can be increased at any time by making additional investments
- Need to be utilized within 12 months, however, the term can be extended by investing additional funds before the end of the 12-month term

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- Simplify the procurement process with a single invoice and payment
- Easily change course attendees if previous plans change
- Lock-in your hard fought training budget and utilize it over time
- Control how, where, and for whom funds are spent
- Allow employees to register for training while managing approvals centrally

Getting Started

Complete and submit the form online at www.sans.org/vouchers and a SANS representative in your region will contact you within 24 business hours.

Get started today and within as little as one week, we can create your Account and your employees can begin their training.
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**Chicago**  2016

Chicago, IL  |  Aug 22-27

**Alaska**  2016

Anchorage, AK  |  Aug 22-27

**Virginia Beach**  2016

Virginia Beach, VA  |  Aug 22 - Sep 2

**Northern Virginia**

Crystal City  2016

Crystal City, VA  |  Sep 6-11

**Network Security**  2016

Las Vegas, NV  |  Sep 10-19

**Security Leadership**

SUMMIT & TRAINING  2016

Dallas, TX  |  Sep 27 - Oct 4

**Seattle**  2016

Seattle, WA  |  Oct 3-8

**Baltimore**  2016

Baltimore, MD  |  Oct 10-15

**Tysons Corner**  2016

Tysons Corner, VA  |  Oct 22-29

**San Diego**  2016

San Diego, CA  |  Oct 23-28

**Pen Test Hackfest**

SUMMIT & TRAINING  2016

Crystal City, VA  |  Nov 2-9

**Healthcare Cybersecurity**

SUMMIT & TRAINING  2016

Houston, TX  |  Nov 14-21

**San Francisco**  2016

San Francisco, CA  |  Nov 27 - Dec 2

**Cyber Defense Initiative**  2016

Washington, DC  |  Dec 10-17

Information on all events can be found at [www.sans.org/security-training/by-location/all](http://www.sans.org/security-training/by-location/all)
We recommend you register early to ensure you get your first choice of courses.

Register online at www.sans.org/miami

Select your course or courses and indicate whether you plan to test for GIAC certification. If the course is still open, the secure, online registration server will accept your registration. Sold-out courses will be removed from the online registration. Everyone with Internet access must complete the online registration form. We do not take registrations by phone.

Top 5 reasons to stay at the Sonesta Coconut Grove Miami

1. All SANS attendees receive complimentary high-speed Internet when booking in the SANS block.
2. No need to factor in daily cab fees and the time associated with travel to alternate hotels.
3. By staying at the Sonesta Coconut Grove Miami you gain the opportunity to further network with your industry peers and remain in the center of the activity surrounding the training event.
4. SANS schedules morning and evening events at the Sonesta Coconut Grove Miami that you won’t want to miss!
5. Everything is in one convenient location!

A contemporary, 22-story boutique-style hotel in the heart of Coconut Grove, just steps from the fashionable shopping, dining and nightlife of CocoWalk. You are minutes from downtown Miami’s Business District (Brickell Avenue), Port of Miami, South Beach, Coral Gables, University of Miami and the beaches of Key Biscayne.

Special Hotel Rates Available

A special discounted rate of $199.00 S/D will be honored based on space availability. Government per diem rooms are available with proper ID; you will need to call reservations and ask for the SANS government rate. This rate is only available through Friday, October 21, 2016. A $3.00 service fee may apply.

Pay Early and Save

Use code EarlyBird16 when registering early

Some restrictions apply.

Date - Discount
9-14-16 - $400.00
10-5-16 - $200.00

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You may substitute another person in your place at any time, at no charge, by e-mail: registration@sans.org or fax: 301-951-0140. Cancellation requests without substitution must be submitted in writing, by mail, or fax, and postmarked by October 19, 2016 — processing fees may apply.
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- Analyst Webcasts — A follow-on to the SANS Analyst Program, Analyst Webcasts provide key information from our whitepapers and surveys.
- WhatWorks Webcasts — The SANS WhatWorks webcasts bring powerful customer experiences showing how end users resolved specific IT Security issues.
- Tool Talks — Tool Talks are designed to give you a solid understanding of a problem, and to show how a vendor’s commercial tool can be used to solve or mitigate that problem.

NEWSLETTERS
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