

# **SANS 2013**



## **PROGRAM GUIDE**

**March 8-15, 2013**

**Orlando World Center Marriott Hotel**

**Orlando, FL**



# SECURITY AWARENESS FOR THE 21st CENTURY

- Based on the 20 critical controls.
- Go beyond just compliance and reduce risk.
- Host in your own organization or SANS Virtual Learning Environment.
- Meets PCI DSS, HIPAA, FERPA, FISMA, SOX and ISO 27001 requirements.
- Quizzes created by GIAC.



[www.securingthehuman.org](http://www.securingthehuman.org)



## Want to Earn a Master's Degree in Information Security?

SANS Technology Institute (STI) offers two intensive, hands-on master's degree programs focused on information security.

**Master of Science Degree in Information Security Management**

**Master of Science Degree in Information Security Engineering**

WEBSITE [www.sans.edu](http://www.sans.edu)

E-MAIL [info@sans.edu](mailto:info@sans.edu)

PHONE (720) 941-4932

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## SANS School Store Hours

*Location: Crystal H*

Monday, March 11	10:30am-1:30pm & 3:00pm-6:00pm
Tuesday, March 12	10:30am-1:30pm & 3:00pm-6:00pm
Wednesday, March 13	10:30am-1:30pm & 3:00pm-6:00pm
Thursday, March 14	10:30am-1:30pm & 3:00pm-6:00pm
Friday, March 15	10:30am-1:30pm (Closes)

*Here are a few of the items you can find for sale in the School Store:*

SANS Zip-up Sweatshirt	T-shirts	Wireless Cards
STI Fleece	ISC Messenger Bag	Cable Locks
Travel Mugs	Water Bottles	Baseball Caps
Large Selection of Published Books	Travel Mugs	Polos
	Mouse Pads	Sweatshirts

## RECEIVE A FREE GIFT!

*Spend \$100 or more and receive a free gift with your purchase while supplies last!*

## General Information

### Registration Information

*Location: Florida Ballroom Foyer*

Friday, March 8 (Short Courses Only) ..... 8:00am - 9:00am

*Location: Crystal Registration*

Saturday, March 9 (Short Courses Only) ..... 8:00am - 9:00am

Saturday, March 9 (Early Popcorn Registration – Crystal Foyer) .. 5:00pm - 7:00pm

Sunday, March 10 ..... 7:00am - 5:30pm

Monday, March 11 – Thursday, March 14 ..... 8:00am - 5:30pm

Friday, March 15 ..... 8:00am - 2:00pm (Closes)

### Courseware Pick-up Information

*Location: Florida Ballroom Foyer*

Friday, March 8 (Short Courses Only) ..... 8:00am - 9:00am

*Location: Crystal Registration*

Saturday, March 9 (Short Courses Only) ..... 8:00am - 9:00am

*Location: Crystal H*

Saturday, March 9 (Early Popcorn Registration – Crystal Foyer) .. 5:00pm - 7:00pm

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Wednesday, March 13 ..... 10:30am-1:30pm & 3:00pm-6:00pm

Thursday, March 14 ..... 10:30am-1:30pm & 3:00pm-6:00pm

Friday, March 15 ..... 10:30am-1:30pm (Closes)

### Internet Café (WIRED & WIRELESS)

*Location: Crystal Foyer*

*Printer will be available for students' use*

Sunday, March 10 ..... Opens at noon - 24 hours

Monday, March 11 – Thursday, March 14 ..... Open 24 hours

Friday, March 15 ..... Closes at 2:00pm

### Course Times

All full-day courses will run 9:00am - 5:00pm (unless noted).

### Course Breaks

10:30am - 10:50am – Morning Break

12:15pm - 1:30pm – Lunch (On your own)

3:00pm-3:20pm – Afternoon Break

## General Information

### First Time at SANS?

Please attend our Welcome to SANS briefing designed to help newcomers get the most from your SANS training experience. The talk is from 8:15am-8:45am on Sunday, March 10, 2013, at the General Session in Royal.

### Dining Options

We have assembled a short list of dining suggestions you may like to try during lunch breaks. See page 20 of this booklet.

### Feedback Forms and Course Evaluations

The SANS planning committee wants to know what we should keep doing and what we need to improve – but we need your help! Please take a moment to fill out an evaluation form after each course and drop it in the evaluation box.

### Social Board

You can post open invites to lunch, dinner, or other outings – located on the bulletin board near the Crystal Foyer Registration Desk.

### Wear Your Badge and Course Ticket Daily

To make sure you are in the right place, the SANS door monitors will be checking your badge and course tickets for each course you enter. For your convenience, please wear your badge and course ticket at all times.

### Lead a BoF! (Birds of a Feather Session)

Whether you are an expert or just interested in keeping the conversation going, sign up and suggest topics at the BoF board near registration. If you have questions, leave a message with your contact information with someone at the registration desk in the Crystal Foyer.

### Bootcamp Sessions and Extended Hours

The following classes have evening bootcamp sessions or extended hours. For specific times, please refer to pages 4-5.

#### **Bootcamps (Attendance Mandatory)**

**MGT414:** SANS® +S™ Training Program for the CISSP® Cert Exam

**SEC401:** Security Essentials Bootcamp Style

**SEC660:** Advanced Penetration Testing, Exploits & Ethical Hacking

#### **Extended Hours:**

**MGT512:** SANS Security Leadership Essentials For Managers with Knowledge Compression™

**SEC504:** Hacker Techniques, Exploits & Incident Handling

**SEC560:** Network Penetration Testing and Ethical Hacking

**Special:** (ISC)²® Certified Secure Software Lifecycle Professional (CSSLP®) CBK® Education Program

**Special:** RMF for DoD IT Workshop

# Course Schedule

## Six-Day Courses

**Sunday, March 10 - Friday, March 15**

Time: 9:00am – 5:00pm (Unless otherwise noted)

### AUD507: Auditing Networks, Perimeters, and Systems

Instructor: David Hoelzer ..... Location: Crystal K

### DEV522: Defending Web Applications Security Essentials

Instructor: Dr. Johannes Ullrich ..... Location: Crystal M

### FOR408: Computer Forensic Investigations – Windows In-Depth

Instructor: Chad Tilbury ..... Location: Sawgrass – North Tower

### FOR508: Advanced Computer Forensic Analysis & Incident Response

Instructor: Rob Lee, Richard Salgado .... Location: Vinoy – North Tower

### MGT414: SANS® +S™ Training Program for the CISSP® Cert Exam

Instructor: Eric Conrad ..... Location: Crystal G1

*Bootcamp Hours: 8:00am – 9:00am (Course days 2-6) &*

*5:15pm - 7:00pm (Course days 1-5)*

### MGT525: IT Project Management, Effective Communication, and PMP® Exam Prep

Instructor: Jeff Frisk ..... Location: Harbor Beach – North Tower

### SEC401: SANS Security Essentials Bootcamp Style

Instructor: Dr. Eric Cole ..... Location: Crystal J1

*Bootcamp Hours: 5:15pm - 7:00pm (Course days 1-5)*

### SEC501: Advanced Security Essentials - Enterprise Defender

Instructor: Bryce Galbraith ..... Location: Grand 12

### SEC502: Perimeter Protection In-Depth

Instructor: George Bakos ..... Location: Crystal N

### SEC503: Intrusion Detection In-Depth

Instructor: Mike Poor ..... Location: Canary 3

### SEC504: Hacker Techniques, Exploits, and Incident Handling

Instructor: John Strand ..... Location: Crystal G2

*Extended Hours: 5:00pm-6:30pm (Course Day 1 only)*

### SEC505: Securing Windows and Resisting Malware

Instructor: Jason Fossen ..... Location: Grand 10

### SEC506: Securing Linux/Unix

Instructor: Hal Pomeranz ..... Location: Crystal B

### SEC542: Web App Penetration Testing & Ethical Hacking

Instructor: Kevin Johnson ..... Location: Canary 1

### SEC560: Network Penetration Testing and Ethical Hacking

Instructor: Ed Skoudis ..... Location: Crystal J2

*Extended Hours: 5:00pm-6:30pm (Course Day 1 only)*

### SEC575: Mobile Device Security and Ethical Hacking

Instructor: Joshua Wright ..... Location: Marco Island – North Tower

# Course Schedule

## SEC579: Virtualization and Private Cloud Security

Instructor: Dave Shackelford ..... Location: Denver

## SEC617: Wireless Ethical Hacking, Penetration Testing & Defenses

Instructor: Larry Pesce ..... Location: Crystal L

## SEC642: Advanced Web App Penetration Testing & Ethical Hacking

Instructor: Seth Misenaar ..... Location: Chicago

## SEC660: Advanced Penetration Testing, Exploits & Ethical Hacking

Instructor: Stephen Sims ..... Location: Canary 4

## Five-Day Courses

**Sunday, March 10 - Thursday, March 14**

Time: 9:00am – 5:00pm (Unless otherwise noted)

### FOR526: Windows Memory Forensics In-Depth

Instructors: Alissa Torres, Jesse Kornblum ..... Location: Crystal A

### FOR563: Mobile Device Forensics

Instructors: Cindy Murphy, Heather Mahalik ..... Location: Crystal E

### FOR610: Reverse-Engineering Malware: Malware Analysis Tools and Techniques

Instructor: Lenny Zeltser ..... Location: Grand 9

### SEC301: Intro to Information Security

Instructor: Fred Kerby ..... Location: Royal

### HOSTED: (ISC)<sup>2</sup>® Certified Secure Software Lifecycle Professional (CSSLP®) CBK® Education Program

Instructor: Donald Franke ..... Location: Crystal Q

*Extended Hours: 5:00pm – 6:00pm (Course days 1-5)*

## Five-Day Courses

**Monday, March 11 - Friday, March 15**

Time: 9:00am – 5:00pm (Unless otherwise noted)

### LEG523: Law of Data Security and Investigations

Instructor: Benjamin Wright ..... Location: Grand 13

### MGT512: SANS Security Leadership Essentials for Managers and Knowledge Compression™

Instructor: G. Mark Hardy ..... Location: Canary 2

*Extended Hours: 5:00pm – 6:00pm (Course days 1-4)*

### MGT514: IT Security Strategic Planning, Policy and Leadership

Instructors: Stephen Northcutt, Mark Williams ..... Location: Grand 11

### SEC566: Implementing and Auditing the Twenty Critical Security Controls – In-Depth

Instructor: James Tarala ..... Location: Grand 14

### HOSTED: RMF for DoD IT Workshop

Instructor: Scott Byers ..... Location: Crystal P

*Extended Hours: 5:00pm – 7:00pm (Course day 1)*

*8:00am – 9:00am (Course days 2-5)*

# Course Schedule

## Four-Day Courses

**Sunday, March 10 - Wednesday, March 13**

Time: 9:00am – 5:00pm

### **DEV541: Secure Coding in Java/JEE: Developing Defensible Apps**

Instructor: Frank Kim ..... Location: Crystal D

### **DEV544: Secure Coding in .NET: Developing Defensible Apps**

Instructor: James Jardine, Eric Johnson ..... Location: Crystal C

## Three-Day Course

**Sunday, March 10 - Tuesday, March 12**

Time: 9:00am – 5:00pm

### **AUD444: Auditing Security and Controls of Active Directory and Windows**

Instructor: Tanya Baccam, Bryan Simon ..... Location: Crystal F

## Three-Day Course

**Wednesday, March 13 - Friday, March 15**

Time: 9:00am – 5:00pm

### **AUD445: Auditing Security and Controls of Active Directory and Windows**

Instructor: Tanya Baccam ..... Location: Crystal F

## Two-Day Courses

**Friday, March 8 - Saturday, March 9**

Time: 9:00am – 5:00pm

### **AUD521: Meeting the Minimum: PCI/DSS 2.0: Becoming and Staying Compliant**

Instructor: David Hoelzer ..... Location: Key Biscayne (Day 1)  
and Crystal A (Day 2)

### **MGT433: Securing the Human: Building and Deploying an Effective Security Awareness Program**

Instructor: Lance Spitzner ..... Location: Sawgrass

### **SEC434: Log Management In-Depth: Compliance, Security, Forensics, and Troubleshooting**

Instructor: Dr. Eric Cole ..... Location: Harbor Beach

### **SEC524: Cloud Security Fundamentals**

Instructor: Dave Shackelford ..... Location: Marco Island

### **SEC546: IPv6 Essentials**

Instructor: Dr. Johannes Ullrich ..... Location: Puerto Rico (Day 1)  
and Crystal F (Day 2)

# Course Schedule

## **HOSTED: Offensive Countermeasures: Defensive Tactics That Actually Work**

Instructor: John Strand ..... Location: Key West (Day 1)  
and Crystal C (Day 2)

## **HOSTED: Physical Penetration Testing - Introduction**

Instructor: Deviant Ollam ..... Location: Key Largo (Day 1)  
and Crystal B (Day 2)

## Two-Day Course

**Monday, March 11 - Tuesday, March 12**

Time: 7:15pm – 10:15pm

## **SPECIAL: Assembly Language Fundamentals of Penetration Testing and amp: Reversing**

Instructor: Dave Hoelzer ..... Location: Crystal K

## Two-Day Course

**Tuesday, March 12 - Wednesday, March 13**

Time: 6:30pm – 9:00pm

## **MGT305: Technical Communication and Presentation Skills for Security Professionals**

Instructor: G. Mark Hardy ..... Location: Crystal L

## One-Day Courses

**Saturday, March 9**

Time: 9:00am – 5:00pm

### **MGT415: A Practical Introduction to Risk Assessment**

Instructor: James Tarala ..... Location: Crystal D

### **MGT535: Incident Response Team Management**

Instructor: Chris Crowley ..... Location: Crystal E



## Bundle GIAC certification with SANS training and **SAVE \$350!**

In the information security industry, certification matters. The Global Information Assurance Certification (GIAC) program offers skills-based certifications that go beyond high-level theory and test true hands-on and pragmatic skill sets that are highly regarded in the InfoSec industry.

### Four Reasons to 'Get GIAC Certified'

GIAC Certification:

- 1 Promotes** learning that improves your hands-on technical skills and improves knowledge retention
- 2 Provides** proof that you possess hands-on technical skills
- 3 Positions** you to be promoted and earn respect among your peers
- 4 Proves** to hiring managers that you are qualified for the job

**You can save \$350 on certification when you bundle your certification attempt with your SANS training course. Click on the GIAC certification option during registration or add the certification on-site before the last day of class.**

**Find out more about GIAC at [www.giac.org](http://www.giac.org) or call (301) 654-7267.**

The SANS Institute is the winner six years in a row from the SC Magazine Awards ([www.scmagazine.com](http://www.scmagazine.com)) for either Best Professional Training Program or for GIAC for the Best Professional Certification Program.



## Special Events

### Enrich your SANS experience!

*Morning and evening talks given by our faculty and selected subject matter experts help you broaden your knowledge, get the most for your training dollar, and hear from the voices that matter in computer security.*

**SATURDAY, MARCH 9**

### Registration Popcorn Reception

Saturday, March 9 | 5:00pm - 7:00pm  
Location: Crystal Foyer

**Register early and network with your fellow students!  
Families welcome!**

**SUNDAY, MARCH 10**

### Welcome to SANS General Session

Speaker: Dr. Eric Cole  
Sunday, March 10 | 8:15am - 8:45am | Royal

#### KEYNOTE

### ***APT: It is Not Time to Pray, It is Time to Act***

Speaker: Dr. Eric Cole  
Sunday, March 10 | 7:15pm - 9:15pm | Royal

Albert Einstein said, "We cannot solve our problems with the same thinking we used when we created them." With the new advanced and emerging threat vectors that are breaking into networks with relative ease, a new approach to security is required. The myth that these attacks are so stealthy they cannot be stopped is just not true. There is no such thing as an unstoppable adversary. It is not time to pray, it is time to act.

In this engaging talk one of the experts on APT, Dr. Cole, will outline an action plan for building a defensible network that focuses on the key motto Prevention is Ideal, but Detection is a Must. Better understand what the APT really is and what organizations can do to be better prepared. The threat is not going away, so the more organizations can realign their thinking with solutions that actually work, the safer the world will become.

## Special Events

MONDAY, MARCH 11

### Vendor Expo

Monday, March 11 | 12:00pm - 1:30pm and 5:00pm - 7:00pm  
Location: Sabal Ballroom

All attendees are invited to meet with established and emerging solution providers as they reveal the latest tools and technologies critical to information security. The SANS 2013 Vendor Expo showcases product offerings from key technology providers in the commercial tools and services market. Vendors arrive prepared to interact with a technically savvy audience. You'll find demonstrations and product showcases that feature all the best that the security industry has to offer!

### Vendor Welcome Reception: PRIZE GIVEAWAYS!!! - Passport to Prizes

Monday, March 11 | 5:00pm - 7:00pm  
Location: Sabal Ballroom

This informal reception allows you to visit exhibits and participate in some exciting activities. This is a great time to mingle with your peers and experience firsthand the latest in information security tools and solutions with interactive demonstrations and showcase discussions. Enjoy appetizers and beverages and compare experiences with other attendees regarding the solutions they are using to address security threats in their organization. Attendees will receive a Passport to Prizes entry form. Visit each sponsor to receive a stamp, and then enter to win exciting prizes.

### Book Signing - SANS Published Authors

Monday, March 11 | 6:00pm - 6:30pm  
Location: Sabal Ballroom

Dr. Eric Cole, Eric Conrad, Seth Misener, Dave Shackelford, Ed Skoudis, Lance Spitzner, and Lenny Zeltser are not only top SANS instructors and industry leaders – they are published authors too! Bring your own copy of their best-selling titles or purchase one on-site, and get the author's autograph during our SANS Author Book Signing.

## Special Events

MONDAY, MARCH 11

### SANS @NIGHT

#### *Social Zombies: Rise of the Mobile Dead*

Speaker: Kevin Johnson  
Monday, March 11 | 7:15pm - 8:15pm | Crystal G1

Just when you thought bath salts were turning innocent humans into flesh eating Zombies in Florida, mobile devices have begun taken over the world like an infectious Zombie virus outbreak. Tablets and mobile phones are being used by everyone today and are more powerful than ever before. The technology implemented in these devices is truly bleeding edge. From new wireless technology like NFC (Near Field Communication) to social networks being integrated directly into mobile operating systems, the times are rapidly changing. These new technology advancements also introduce new privacy and physical security concerns not seen before as well. In addition, with new technology come new responsibilities and challenges for security professionals and consumers alike especially in a world of BYOD.

In this presentation Kevin Johnson explores and exploits the new technology being implemented by these mobile platforms. Kevin has discovered interesting security and privacy issues with Android Jelly Bean, Apple iOS 6, OS X Mountain Lion, NFC, and many popular mobile applications. New tools and exploits will be discussed that can be used by penetration testers to exploit these new technologies. Kevin will also discuss strategies to combat the ensuing mobile device onslaught into the enterprise. This information alone will help you to survive the Rise of the Mobile Dead.

### SANS @NIGHT

#### *Knock-off Phone Forensics: Some Handsets Aren't What They Appear To Be*

Speaker: Heather Mahalik  
Monday, March 11 | 7:15pm - 8:15pm | Crystal G2

Mobile devices are not always what they appear to be. Knock-off handsets are prevalent in Asia and Europe and are infiltrating the borders of the United States. Commercial forensic tools do not provide the same amount of support for knock-off devices as they do for GSM and CDMA handsets. Specialized forensic tools and add-on options to commercial kits are available, however not all of the data is parsed for the investigator. This talk will lead an exploration of the different methods for acquiring and analyzing knock-off handsets, to include a live acquisition demonstration. A detailed overview of the files contained within a physical dump of a knock-off device will be provided. Examples will be provided to demonstrate proper parsing methods and data interpretation of the knock-off device files.

## Special Events

MONDAY, MARCH 11

### SANS @NIGHT

#### *Please Keep Your Brain Juice Off My Enigma: A True Story*

Speaker: Ed Skoudis & Josh Wright  
Monday, March 11 | 7:15pm - 8:15pm | Royal

The cracking of the Enigma machine in World War Two was not only a pivotal success for the allied war effort, it helped birth many techniques used in modern cryptanalysis today. In this lively and fun presentation, Ed and Josh talk about the history of the Enigma machine, the geniuses who cracked it, and its implications for today's information security practitioners and researchers, all wrapped up in a bizarre but true story.

### SANS @NIGHT

#### *Over-Zealous Social Media Investigations: Beware the Privacy Monster*

Speaker: Ben Wright  
Monday, March 11 | 8:15pm - 9:15pm | Crystal G1

Social media are bursting with open-source intelligence, valuable for all kinds of investigations. This public treasure trove of evidence is inspiring powerful new tools for collecting it. But are there privacy limits to what an investigator can collect from public sources? Will the evidence collected by the investigator be admissible in court?

### SANS @NIGHT

#### *Introduction to Windows Kernel Exploitation*

Speaker: Stephen Sims  
Monday, March 11 | 8:15pm - 9:15pm | Royal

In this presentation Stephen will discuss the basics of Kernel debugging and exploitation on the Windows 7 and Windows 8 operating systems. Demonstrations will be performed showing Kernel crashes and the associated vulnerability. We will also take a look at some examples of exploit mitigation controls being added to protect the Windows Kernel from being exploitable when a vulnerability exists. Note that this is a technical talk.

## Special Events

TUESDAY, MARCH 12

### **How to Become a SANS Instructor**

Speaker: Eric Conrad  
Tuesday, March 12 | 12:30pm - 1:15pm | Canary 2

Have you ever wondered what it takes to become a SANS instructor? How does your SANS instructor rise to the top and demonstrate the talents to become part of the SANS faculty? Attend this session and learn how to become part of the faculty and learn the steps to make that goal a reality. A certified SANS instructor will share his experiences and show you how to become part of the SANS top rated instructor team.

### **Women in Technology Meet and Greet**

Speaker: Karen Fioravanti  
Tuesday, March 12 | 5:30pm - 6:30pm | Pool Bar

From Jean Jennings Bartik to Diane Greene, women have always been a driving force in the field of information technology. Their experiences have been filled not only with stories of overcoming challenges but also ones of innovation and inspiration. Join us for the Women in Technology Meet and Greet to hear some of these stories and come share your own. After the discussions, stay and network with other conference attendees.

### **GIAC Program Overview**

Speaker: Jeff Frisk, GIAC Program Director  
Tuesday, March 12 | 7:15pm - 8:15pm | Canary 2

GIAC certification provides assurance that a certified individual meets a minimum level of ability and possesses the skills necessary to do the job. Find out why this is important to your career.



### SANS @NIGHT

#### *Hacking Your Friends and Neighbors For Fun*

Speaker: Joshua Wright  
Tuesday, March 12 | 7:15pm - 8:15pm | Crystal G2

I regularly see my neighbors trying to connect to open wireless APs I run in my house. A while back, I set up a special open AP to give them Internet access. The cost? My entertainment. My neighbor-hack AP is setup to manipulate the web traffic of its users, randomly redirecting people to websites of my choosing, manipulating the format and content of pictures they download, and more. All it takes is an inexpensive AP, a Linux box, and an Internet connection. In this talk, I'll show you how to set up your own neighbor-hack AP and, in the process, you'll learn just how scary (or fun) an open wireless AP can be.

## Special Events

TUESDAY, MARCH 12

### SANS @NIGHT

#### **Panel: *How Do We Secure The Human***

Panel Members:

Lance Spitzner of the SANS Institute  
Rich Wistocki of the City of Naperville, IL  
Trevor Hawthorn of Stratum Security  
Samantha Manke of Secure Mentem  
Ira Winkler of Secure Mentem

Tuesday, March 12 | 7:15pm - 8:15pm | Crystal G1

Organizations are beginning to realize that technology can only go so far. Until we also secure the human element, bad guys will continue to have it easy. The purpose of this panel is to discuss lessons learned on how to secure the human element. Discussion will include:

- **What training has the greatest impact; how do I actually change behaviors?**
- **How do I create engaging training people want to take?**
- **How do I measure the change in behavior?**
- **How do I get executive support?**
- **What common mistakes should I avoid?**
- **What can I do with a limited budget?**

Attendees are encouraged to bring their own questions and attempt to stump the panel.

### SANS @NIGHT

#### ***InfoSec in the Financial World: War Stories and Lessons Learned***

Speaker: Bryan Simon

Tuesday, March 12 | 8:15pm - 9:15pm | Crystal G2

We all have heard about - or experienced first hand - the continual barrage of real threats against our networks that are the unfortunate reality of today's online existence.

Join Bryan Simon, the CISO for INTEGRIS Credit Union, as he shares stories of the threats his company has faced, lessons learned from the battles fought, and the steps that you can take to no longer be "the low-hanging fruit."

## Special Events

TUESDAY, MARCH 12

### SANS @NIGHT

#### ***Securing the Kids***

Speakers: Lance Spitzner and Rich Wistocki  
Tuesday, March 12 | 8:15pm - 9:15pm | Crystal G1

Technology is an amazing tool. It allows our kids to access a tremendous amount of information, meet new people, and communicate with friends around the world. In addition, for them to be successful in the 21st century they have to know and understand how to leverage these new tools. However, with all these capabilities come a variety of new risks, risks that as parents you may not understand or even be aware of. In this one-hour presentation we cover the top three risks to kids online and the top five steps you can take to protect them. This course is based on the experiences and lessons learned from a variety of SANS top instructors who not only specialize in security, but are parents just like you. This talk is sponsored and delivered by the SANS Securing The Human program.

#### **Open Mic Night**

Brought to you by SANS Online Training  
Tuesday, March 12 | 8:30pm - 10:30pm | Sabal Ballroom

Do you have a hidden musical talent? Are you a guitar rock god, ukulele superstar, or someone who loves drumming on a cajon? Join the SANS house band Untrusted Input (featuring SANS faculty and staff) for an evening of musical mayhem! If you would like to participate in Open Mic Night, drop us a line at [simulcast@sans.org](mailto:simulcast@sans.org) and we will add you to the set list. Each participant may play two songs.

WEDNESDAY, MARCH 13

### SANS @NIGHT

#### ***Who's Watching the Watchers?***

Speaker: Mike Poor  
Wednesday, March 13 | 7:15pm - 8:15pm | Crystal G1

We have instrumented our networks to the Nth degree. We have firewalls, IDS, IPS, Next Gen Firewalls, Log correlation and aggregation... but do we know if we have it right? Will we detect the NextGen(TM) attackers?

In this talk, we will explore ways to improve the signal/noise ratio in our favor and help identify the needle in the needlestack.

## Special Events

WEDNESDAY, MARCH 13

### SANS Technology Institute Open House

Speaker: Ray Davidson

Wednesday, March 13 | 7:15pm - 8:15pm | Location: Canary 2

SANS Technology Institute Master of Science degree programs offer candidates an unparalleled opportunity to excel in the two aspects of security that are most important to the success of their employer and their own careers: management skills and technical mastery.



Over the next 20 years, information technology will become so central to all aspects of our lives, from recreation to warfare, that information security will rise in importance and scale. It will become a profession with more than 500,000, and perhaps as many as 1,000,000, people employed in positions in which they have significant roles in shaping the security of their employers' systems. Those people need managers, technical directors, and chief information security officers who are deeply skilled in the technology and who have excellent management skills.

If you aspire to help lead your organization's or your country's information security program and you have the qualifications, organizational backing, and personal drive to excel in these challenging degree programs, we will welcome you into the program.

#### SANS @NIGHT

### *Human Nature and Information Security: Irrational and Extraneous Factors That Matter*

Speaker: Lenny Zeltser

Wednesday, March 13 | 7:15pm - 8:15pm | Royal

We'd like to believe that the information security discipline is grounded in fact, rationality, and sound judgment. However, a surprising number of infosec decisions are based on seemingly irrational and extraneous factors that include the person's physiological state, contradictory logic, and subjective perception. This session discusses lots of examples of such situations, including:

- The way in which a data breach might help the affected brand or how making security policies harder to read might improve comprehension
- The power of social engineering scams that use persuasion techniques such as the scarcity principle and emotional state mirroring
- The importance of not only being secure, but also feeling secure, as well as the difference between fear and anxiety

By looking at information security from slightly uncommon perspectives, this talk just might change how you think about the relationship between infosec decisions and human nature.

## Special Events

WEDNESDAY, MARCH 13

#### SANS @NIGHT

### *Why Our Defenses Are Failing Us. One Click Is All It Takes...*

Speaker: Bryce Galbraith

Wednesday, March 13 | 8:15pm - 9:15pm | Royal

Organizations are spending unprecedented amounts of money in an attempt to defend their assets. Yet all too often, one click is all it takes for it all to come toppling down around them. Every day we read in the news about national secrets, intellectual property, financial records, and personal details being exfiltrated from the largest organizations on Earth. How is this being done? How are they bypassing our defenses (e.g. strong passwords, non-privileged accounts, anti-virus, firewalls/proxies, IDS/IPS, logging, etc.) And most importantly, what can we do about it? A keen understanding of the true risks we face in today's threatscape is paramount to our success.

#### SANS @NIGHT

### *You Can Panic Now. Host Protection is (Mostly) Dead. An Incident Response and Forensics Analysis of an APT Attack*

Speaker: Rob Lee

Wednesday, March 13 | 8:15pm - 9:15pm | Crystal G1

Is host-based detection dead? No one has been able to see the APT circumvent common defenses because victims rarely share specific attack details. Until now. A real-world APT attack reveals how surprisingly ineffective sophisticated host-based defenses are. Starting from an initial attack through data exfiltration, this presentation will cover several of the tactics and techniques used by attackers to bypass host-based controls used in numerous organizations today.

## NETWARS

### Test your Knowledge and Capture-the-Flag Skills in an Interactive Security Challenge!

Wednesday, March 13 - Thursday, March 14  
6:30pm - 9:30pm | Location: Crystal J2

Hosted by: Ed Skoudis & Tim Medin

All students who register for a 5- or 6- day course will be  
eligible to play NetWars for FREE. Register Now!

[www.sans.org/event/sans-2013/product/942](http://www.sans.org/event/sans-2013/product/942)

THURSDAY, MARCH 14

## NetWars

Hosted by: Ed Skoudis & Tim Medin

Thursday, March 14 | 6:30 - 9:30pm | Location: Crystal J2

## SANS @NIGHT

### *Finding Unknown Malware*

Speaker: Alissa Torres

Thursday, March 14 | 7:15pm - 8:15pm | Crystal G1

If you have ever been given the mission to find evil on a compromised system, you understand the enormity of that tasking. In this technical presentation, Alissa will introduce sound methodology for identifying malware, using strategies based on knowing normal, data reduction, and least frequency of occurrence in order to identify malicious binaries and common methods of persistence. The skills and tools presented here will aid in efficient identification of anomalous files in order to narrow further analysis and facilitate the creation of indicators of compromise.

## SANS @NIGHT

### *Tales from the Crypt: TrueCrypt Analysis*

Speaker: Hal Pomeranz

Thursday, March 14 | 7:15pm - 8:15pm | Royal

What if you suspect a device you are investigating may contain TrueCrypt volumes? What if you have no passwords or memory image to analyze and cannot access the volumes? Is all hope lost? Based on real-world investigations, this talk starts by covering techniques for detecting TrueCrypt volumes on Windows systems using a combination of specialized tools, registry forensics, and application-specific configuration files. Next we'll look at the information that is available to the investigator about the contents of a TrueCrypt volume, even when the volume itself cannot be decrypted.

## SANS @NIGHT

### *Honeypots for Home Use*

Speaker: James Leyte-Vidal

Thursday, March 14 | 7:15pm - 8:15pm | Canary 1

In evaluation of a new product at an executive's home, interesting attacks were noted that merited further investigation. Join James for a discussion about placing a honeypot in a home environment and the learnings from the deployment. This is targeted at those new or relatively new to honeypot use.

THURSDAY, MARCH 14

## SANS @NIGHT

### *Physical Repair of Mobile Devices – Practical Tips & Tricks For When Good Evidence Gets Broken*

Speaker: Det. Cindy Murphy

Thursday, March 14 | 8:15pm - 9:15pm | Crystal G1

With growing public knowledge of investigator's abilities to extract compelling evidence from mobile devices for intelligence purposes and criminal prosecutions, criminals are often resorting to physical destruction of their phones in an attempt to prevent access to the data they contain. Detective Murphy will present an in-depth case study related to a physically damaged phone taken as evidence in a shaken baby case and will provide practical tips and tricks for how to repair mobile devices back to working condition for forensic extraction of digital evidence from those devices. Detective Murphy will give an overview of useful informational resources and will also identify the indispensable tools needed to bring seemingly dead devices back to life. In addition, Detective Murphy will discuss how to fit physical repair of a mobile device into your mobile device examination process so that the evidence you later retrieve from that device can be preserved in a manner that will stand up to court scrutiny.

## SANS @NIGHT

### *Hunting and Sniper Forensics*

Speaker: Jason Lawrence

Thursday, March 14 | 8:15pm - 9:15pm | Royal

For years security analysts and practitioners have claimed: "There are two types of companies in this country, those who know they've been hacked, and those who don't know they've been hacked."

Assuming this assertion is correct, companies need to start approaching incident response in a different way. Incident response teams will need to hunt down the adversary in their network and with sniper precision take them out. The time has come for a more proactive approach to incident handling and response. To that end this talk will explore the art behind hunting down the advanced persistent threat lurking in our networks. Once the adversary has been located phase two of this approach will kick in, and with the precision of a trained sniper, the incident responder will collect the evidence needed to determine the sources of the breach. Furthermore, with sniper forensics the incident handler will not need to sift through terabytes upon terabytes of evidence. This limited scoping of the evidence to be collected will enable the response team to focus on the adversary's next target of exploitation.

## Dining Options

### Orlando Restaurants at the World Center Marriott

At the Orlando World Center Marriott, the dining experience is taken very seriously. In fact, you can enjoy a variety of specialty cuisine for every taste and an atmosphere to please every guest. With ten Orlando restaurants and lounges serving everything from pasta and burgers to sashimi and USDA prime beef, the choices are seemingly endless.

#### Hawk's Landing Steakhouse

Serving the finest cuts of beef and the freshest seafood, Hawk's Landing Steakhouse & Grille offers a casually upscale Orlando dining experience, sure to satisfy.

#### Pavilion Pool Bar

This refreshing outdoor Orlando restaurant and bar overlooks the spectacular tropically-inspired pool complex.

#### High Velocity

Dining has never been cooler than at High Velocity Restaurant in Orlando, Florida, one of Orlando's trendiest sports bars.

### Other Restaurants in the Orlando World Center Marriott

You'll find more wonderful Orlando restaurant choices at the World Center Marriott, too. From casual coffee shops and lounges, to the ultimate in family dining, you can choose from a variety of fabulous eateries in Orlando – all conveniently located inside the World Center Marriott.

Just off the lobby, a **Starbucks** hums with activity all day long. There are also several lounges offering relaxed settings for socializing and networking. The **Lobby Bar** and **Veranda** is a contemporary gathering place specializing in martinis, tropical drinks and a remarkably creative array of appetizers. The Veranda provides comfortable outdoor seating with beautiful views of our main pool complex, a water wonderland considered by many to be one of the most spectacular in all of Florida.

#### Solaris: The Best Orlando Restaurant for Breakfast

Breakfast at Solaris in the Orlando World Center is an event that attracts not only resort guests, but locals as well. And why not? It's one of the best breakfast restaurants in Orlando...

Solaris Restaurant is home to one of the most sumptuous breakfast buffets you'll find anywhere. Lunch at the Solaris restaurant is equally rewarding, with excellent food served in a relaxed and casual setting. Both Solaris and our **Food Court** are popular places with families looking for something great to satisfy every member of the family.

No matter how many days you spend at this amazing resort, there are more than enough fine Orlando restaurants to satisfy everyone's culinary moods.

## Vendor Events

### Vendor Expo

Monday, March 11 | 12:00pm - 1:30pm and 5:00pm - 7:00pm  
Location: Sabal Ballroom

All attendees are invited to meet with established and emerging solution providers as they reveal the latest tools and technologies critical to information security. The 2013 Vendor Expo showcases product offerings from key technology providers in the commercial tools and services market. Vendors arrive prepared to interact with a technically savvy audience. You'll find demonstrations and product showcases that feature all the best that the security industry has to offer!

### Vendor-Sponsored Lunch Session

Monday, March 11 | 12:00pm - 1:30pm | Location: Sabal Ballroom

Sign-up at SANS Registration to receive a ticket for a free lunch brought to you by sponsoring vendors.

*Please note, by accepting a lunch ticket, your badge will be scanned and your information shared with the sponsoring vendors.*

Join these sponsoring vendors and others on the expo floor for an introduction to leading solutions and services that showcase the leading options in information security. Take time to browse the show floor and get introduced to providers and their solutions that align with the security challenges being discussed in class.

#### Luncheon Sponsors:

Aramco Services Company	FireEye	PhishMe
Beyond Trust	ForeScout Technologies	Qualys
Core Security Technologies	General Dynamics Fidelis Cybersecurity	Rapid7
EventTracker	Interface Masters	Solera Networks
	Invincea	Sourcefire, Inc.
	LogRhythm	Websense

### Vendor Welcome Reception: PRIZE GIVEAWAYS!!! – Passport to Prizes

Monday, March 11 | 5:00pm - 7:00pm  
Location: Sabal Ballroom

This informal reception allows you to visit exhibits and participate in some exciting activities. This is a great time to mingle with your peers and experience firsthand the latest in information security tools and solutions with interactive demonstrations and showcase discussions. Enjoy appetizers and beverages and compare experiences with other attendees regarding the solutions they are using to address security threats in their organization. Attendees will receive a Passport to Prizes entry form. Visit each sponsor to receive a stamp, and then enter to win exciting prizes.

## Vendor Events

### Vendor-Sponsored Lunch & Learns

12:30pm -1:15pm

Since SANS course material is product neutral, these presentations provide the opportunity to evaluate vendor tools in an interactive environment to increase your effectiveness, productivity, and knowledge gained from the conference. These sessions feature a light meal or refreshments provided by the sponsor.

**Sign-Up Sheets for the events below are located on the Community Bulletin Board at Student Registration**

#### Fortinet / Infogressive

LUNCH AND LEARN PRESENTATION

**Fortinet Next Generation Firewalls:**

**Learn How to Consolidate and Improve Your Security!**

Speaker: Justin Kallhoff, Infogressive Founder & CEO  
Sunday, March 10 | 12:30pm – 1:15pm | Crystal J1

Infogressive, a Fortinet platinum partner, will discuss next generation firewall technology. Learn how Fortinet products can improve your organization's security and simplify your network for a fraction of the cost of other manufacturers.

#### General Dynamics Fidelis Cybersecurity Solutions

LUNCH AND LEARN PRESENTATION

**There's a reason they're called persistent.**

**Identify the full scope of incidents and find the Campaign**

Speaker: H. Michael Nichols, Technical Product Manager  
Sunday, March 10 | 12:30pm – 1:15pm | Crystal G2

Attacks do not happen in isolation, and often finding or preventing one attempt at infiltration does not mean you stemmed the tide. Instead, Incident Response teams need to quickly pivot from the detected event that tripped a sensor in the security stack to the on-going campaign waging war on the Enterprise. And simply using tools like network memory is not enough; we need to know where to start the investigation and what avenues to follow. Tailoring a core set of indicators to alert on suspicious activity, and leveraging the ability to pivot directly into applicable place in network memory is key in stopping the attack. Don't get lost in the details, thinking the single alert signifies the attackers goal. Don't be the defender that can't see the forest for the trees.

#### Qualys

LUNCH AND LEARN PRESENTATION

**The Good, the Bad, and the Broken:**

**Vulnerability Management Programs Gone Wrong?**

Speaker: Bill Olson, Subject Matter Expert for VM, Qualys Inc.  
Sunday, March 10 | 12:30pm – 1:15pm | Crystal G1

#### Aramco Services

LUNCH AND LEARN PRESENTATION

**Dream Big**

Speaker: Suliman Al-Mazroua  
Sunday, March 10 | 12:30pm – 1:15pm | Royal

This talk will be an overview of the largest oil and gas company.

## Vendor Events

### Splunk

LUNCH AND LEARN PRESENTATION

Sunday, March 10 | 12:30pm – 1:15pm | Canary 1

### ForeScout Technologies

LUNCH AND LEARN PRESENTATION

**Making the GRC Grade:**

**How to Realize Continuous Compliance NAC Real-time Visibility and Automated Control Applied to IT-GRC**

Speaker: Wallace Sann, Director of Systems Engineering  
Tuesday, March 12 | 12:30pm – 1:15pm | Crystal G1

Compliance frameworks require endpoint integrity, host defenses and access controls. You've invested in system and security management to reduce exposures, but diverse devices, threats, access and state changes challenge IT capacity. Examine a reference architecture for dynamic monitoring and remediation, and learn how NAC facilitates IT responsiveness and continuous compliance.

### PhishMe

LUNCH AND LEARN PRESENTATION

Tuesday, March 12 | 12:30pm – 1:15pm | Crystal J1

### Tenable Network Security

LUNCH AND LEARN PRESENTATION

**The Evolution of Vulnerability Management**

Speaker: Jack Daniel, Product Manager  
Tuesday, March 12 | 12:30pm – 1:15pm | Crystal G2

Vulnerabilities and the threat landscape have changed significantly over the years, and vulnerability management has evolved to meet the new challenges. "Threats" from emerging technologies and a distributed workforce complicate the challenges presented by our attackers. Join us for this presentation on the past, present, and future of vulnerabilities, and vulnerability management.

### Beyond Trust

LUNCH AND LEARN PRESENTATION

**The Windows Desktop:**

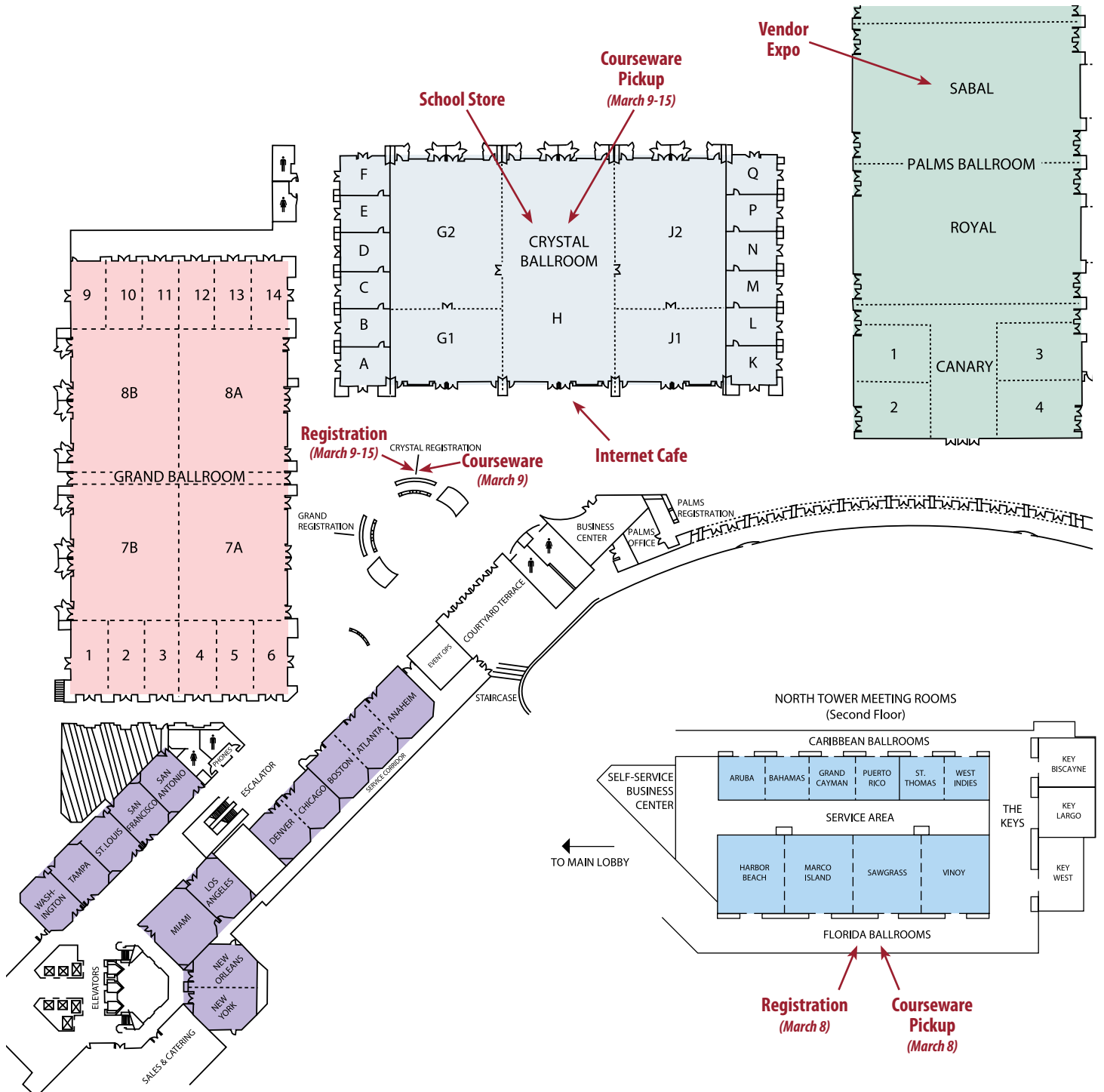
**A hacker's best friend? It doesn't have to be.**

Speaker: Derek Melber  
Tuesday, March 12 | 12:30pm – 1:15pm | Royal

Even with all of the talk surrounding cloud and mobile security, an attacker's best friend (aka target) continues to be the Windows desktop. Attackers continue to find success targeting the combination of vulnerabilities, security misconfigurations, and elevated privileges to wreak havoc on systems and data throughout an organization. Closing off all of these attack surfaces requires an integrated approach of security and policy – identifying the flaws attackers are looking for and securing them, as well as implementing least privilege where necessary to reduce overall damages. Join Derek Melber where he will walk you through relevant-use cases which demonstrate an effective approach to getting the best of both worlds – enforcing least privilege through effective policy management, while at the same time, ensuring the proper security and configuration of your Windows desktops.

# Hotel Floorplans

# Hotel Floorplans





## OnDemand Bundles

*Supplement Your Live Training  
with a SANS OnDemand Bundle*

Register by the end of this training event  
to get these discounted prices!

*Note: Only the course(s) that you are taking at this event  
are eligible to be bundled.*

AUD507 – \$449	MGT305 – \$239	SEC501 – \$449
DEV541 – \$239	MGT414 – \$449	SEC502 – \$449
DEV544 – \$239	MGT433 – \$239	SEC503 – \$449
FOR408 – \$449	MGT512 – \$449	SEC504 – \$449
FOR508 – \$449	MGT514 – \$449	SEC542 – \$449
FOR610 – \$449	MGT535 – \$239	SEC560 – \$449
LEG523 – \$449	SEC301 – \$449	SEC617 – \$449
	SEC401 – \$449	

### Three ways to register!

Visit the registration desk on-site

Call (301) 654-SANS

Write to [ondemand@sans.org](mailto:ondemand@sans.org)

# NETWARS

## NetWars Comes in Four Forms

**TOURNAMENT | CONTINUOUS | CYBERCITY | COURSE**

NetWars is designed to help participants  
develop skills in several critical areas:

- ➔ Vulnerability Assessments
- ➔ System Hardening
- ➔ Malware Analysis
- ➔ Digital Forensics
- ➔ Incident Response
- ➔ Packet Analysis
- ➔ Penetration Testing
- ➔ Intrusion Detection

**NetWars Tournament** runs over an intense two- to three-day period, at a conference or hosted OnSite. Many enterprises, government agencies, and military organizations rely on NetWars Tournament OnSite training to help identify skilled personnel and as part of extensive hands-on skill development.



**NetWars Continuous** allows participants to build their skills on their own time over a four-month period working from their office or home across the Internet. With a whole set of new challenges beyond those included in NetWars Tournament, participants can build their skills and experiment with new techniques in this Internet-accessible cyber range. Also, NetWars Continuous supports a unique Automated Hint System that turns dead ends into learning opportunities.



**NetWars CyberCity**, our most in-depth and ambitious offering, is designed to teach warriors and infosec pros that cyber action can have significant kinetic impact in the real world. With its 1:87 scale miniaturized physical city that features SCADA-controlled electrical power, water, transit, hospital, bank, retail, and residential infrastructures, CyberCity engages cyber defenders to protect the city's components.



**The NetWars Course** is 6 days of hands-on intensive learning, featuring 80% lab and exercise time and 20% debriefings to keep the lessons focused on practical keyboard technical skills. SANS 'top-gun' instructors provide a guided mission through SANS NetWars, working with participants to make sure the lessons of NetWars are hammered home. This offering is truly designed to quickly enhance an individual's skills across a wide variety of different information security disciplines, providing very candid and detailed feedback about currently mastered skills and areas where additional development would be beneficial.



# SANS CyberCon <sup>2013</sup>

Online Training Event

Intense courses. Top instructors. No travel.

Seven of our top courses being offered:

**SEC401: Security Essentials Bootcamp Style**

**SEC504: Hacker Techniques, Exploits, and Incident Handling**

**SEC575: Mobile Device Security and Ethical Hacking**

**FOR408: Computer Forensic Investigations – Windows In-Depth**

**MGT414: SANS® +S™ Training Program for the CISSP® Cert Exam**

**AUD444: Auditing Security & Controls of Active Directory & Windows**

**AUD445: Auditing Security and Controls of Oracle Databases**

Register at

[www.sans.org/event/cybercon-2013](http://www.sans.org/event/cybercon-2013)

# SANS FIRE <sup>2013</sup>

Hands-on immersion training programs  
taught by the world's highest-rated instructors!

Washington, DC  
June 15-22, 2013

[www.sans.org/event/sansfire-2013](http://www.sans.org/event/sansfire-2013)

## Upcoming Summits & Training Courses

What Works in **Cyber Threat Intelligence** Summit  
Washington, DC | March 22

**AppSec** Summit & Training  
Austin, TX | April 22-27

**Critical Security Controls International** Summit & Training  
London, UK | April 26 - May 2

**Mobile Device Security** Summit & Training  
Anaheim, CA | May 30 - June 6

**Virtualization & Cloud Computing** Summit & Training  
Anaheim, CA | May 30 - June 6

**Security Impact of IPv6** Summit & Training  
Washington, DC | June 14-16

**Digital Forensics and Incident Response** Summit & Training  
Austin, TX | July 9-16

**Critical Security Controls** Summit  
Washington, DC | August 12-18

**APAC ICS & SCADA Security** Summit  
Singapore | Fall 2013

**Counter Hack** Summit & Training  
Washington, DC | November 7-14

For a full list of training events, please visit [www.sans.org/summit](http://www.sans.org/summit).  
Dates and locations are subject to change.

**SANS**  
THE MOST TRUSTED NAME IN INFORMATION  
AND SOFTWARE SECURITY TRAINING

## NETWORK SECURITY

Las Vegas | September 14-23, 2013

REGISTER AND PAY BY JULY 31ST  
**SAVE \$500**

[www.sans.org/event/network-security-2013](http://www.sans.org/event/network-security-2013)



# Future SANS Training Events

## **Northern Virginia 2013**

Reston, VA | April 8-13

## **Cyber Guardian 2013**

Baltimore, MD | April 15-20

## **SANS CyberCon 2013**

Online | April 22-27

## **Security West 2013**

San Diego, CA | May 7-16

## **Austin 2013**

Austin, TX | May 19-24

## **SANSFIRE 2013**

Washington D.C. | June 15-22

## **Rocky Mountain 2013**

Denver, CO | July 15-20

## **San Francisco 2013**

San Francisco, CA | July 29 - August 3

## **Boston 2013**

Boston, MA | August 5-10

## **Virginia Beach 2013**

Virginia Beach, VA | August 19-30

## **Network Security 2013**

Las Vegas, NV | September 14-23

## **Seattle 2013**

Seattle, WA | October 7-14

## **Baltimore 2013**

Baltimore, MD | October 14-19

## **Chicago 2013**

Chicago, IL | October 26 - November 4

## **San Diego 2013**

San Diego, CA | November 18-25

## **San Antonio 2013**

San Antonio, TX | December 3-8

## **Cyber Defense Initiative 2013**

Washington, DC | December 11-19

**For a full list of training events, please visit [www.sans.org](http://www.sans.org).**

*Dates and locations are subject to change.*

**Call us with any questions 301-654-SANS (7267)**