

Program Guide

December 12-19, 2013 | Washington, DC

SANS



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**SANS Technology Institute,
an independent subsidiary of SANS,
is now accredited by The Middle States
Commission on Higher Education!**

3624 Market Street | Philadelphia, PA 19104 | 267.285.5000
an institutional accrediting agency recognized by the U.S. Secretary of Education
and the Council for Higher Education Accreditation.

Two unique, respected master's degree programs:

**MASTER OF SCIENCE IN
INFORMATION SECURITY ENGINEERING**

**MASTER OF SCIENCE IN
INFORMATION SECURITY MANAGEMENT**



Learn more at www.sans.edu | info@sans.edu

General Information

Registration Information

Location: International Terrace Foyer

Wednesday, December 11 (Popcorn Reception) 5:00pm-7:00pm
Thursday, December 12 7:00am-5:30pm
Friday, December 13-Wednesday, December 18 8:00am-5:30pm
Thursday, December 19 8:00am-9:00am (Closes)

Courseware Pick-up Information

Location: International Terrace Foyer

Wednesday, December 11 5:00pm-7:00pm
Thursday, December 12 7:00am-9:00am
Wednesday, December 18 8:00am-9:00am

Internet Café (WIRED & WIRELESS)

Location: Concourse Foyer

Printer will be available for students' use

Thursday, December 12 Opens at noon — 24 hours
Friday, December 13-Monday, December 16 Open 24 hours
Tuesday, December 17 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

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 Thursday, December 12** at the General Session in Jefferson.

General Information

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 at the end of each day 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 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 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.

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

Extended Hours:

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

SEC504: Hacker Techniques, Exploits & Incident Handling

Course Schedule

Six-Day Courses

Thursday, December 12-Tuesday, December 17

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

AUD507: Auditing Networks, Perimeters, and Systems

Instructor: David Hoelzer Location: Columbia Hall 12

FOR408: Computer Forensic Investigations – Windows In-Depth

Instructor: Chad Tilbury Location: Columbia Hall 8

FOR508: Advanced Computer Forensic Analysis and Incident Response

Instructor: Rob Lee Location: Columbia Hall 6

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

Instructor: Lenny Zeltser Location: Columbia Hall 9/10

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

Instructor: Eric Conrad Location: Columbia Hall 7

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

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

SEC401: SANS Security Essentials Bootcamp Style

Instructor: Seth Misenar Location: Columbia Hall 1/2

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

SEC501: Advanced Security Essentials – Enterprise Defender

Instructor: Dr. Eric Cole Location: Jefferson

SEC503: Intrusion Detection In-Depth

Instructor: Mike Poor Location: Columbia Hall 5

SEC504: Hacker Techniques, Exploits, and Incident Handling

Instructor: John Strand Location: Lincoln

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

SEC505: Securing Windows and Resisting Malware

Instructor: Jason Fossen Location: Gunston

SEC542: Web App Penetration Testing & Ethical Hacking

Instructor: Kevin Johnson Location: Monroe

SEC575: Mobile Device Security and Ethical Hacking

Instructor: Christopher Crowley Location: Columbia Hall 11

SEC579: Virtualization and Private Cloud Security

Instructor: Paul A. Henry Location: Fairchild

SEC617: Wireless Ethical Hacking, Penetration Testing, and Defenses

Instructor: Larry Pesce Location: Kalorama

Course Schedule

Five-Day Courses

Thursday, December 12-Monday, December 16

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

FOR526: Windows Memory Forensics In-Depth

Instructor: Alissa Torres Location: Columbia Hall 4

MGT512: SANS Security Leadership Essentials for Managers with Knowledge Compression™

Instructors: G. Mark Hardy, Stephen Northcutt ... Location: Georgetown West

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

SEC301: Intro to Information Security

Instructor: Fred Kerby Location: Georgetown East

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

Instructor: James Tarala Location: Columbia Hall 3

HOSTED: (ISC)® Certified Secure Software Lifecycle Professional (CSSLP®) CBK® Education Program

Instructor: E. J. Jones Location: Holmead

Three-Day Courses

Thursday, December 12-Saturday, December 14

Time: 9:00am - 5:00pm

AUD444: Auditing Security and Controls of Active Directory and Windows

Instructor: Tanya Baccam Location: Independence

Sunday, December 15-Tuesday, December 17

Time: 9:00am - 5:00pm

AUD445: Auditing Security and Controls of Oracle Databases

Instructor: Tanya Baccam Location: Independence

Two-Day Courses

Wednesday, December 18-Thursday, December 19

Time: 9:00am - 5:00pm

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

Instructor: Lance Spitzner Location: Georgetown West

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

Instructor: Dr. Eric Cole Location: Jefferson West

SEC580: Metasploit Kung Fu for Enterprise Pen Testing

Instructor: Eric Conrad Location: Lincoln West

One-Day Courses

Wednesday, December 18 | Time: 9:00am - 5:00pm

MGT415: A Practical Introduction to Risk Assessment

Instructor: David Hoelzer Location: Jefferson East

MGT535: Incident Response Team Management

Instructor: Christopher Crowley Location: Georgetown East

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.

WEDNESDAY, DECEMBER 11

Registration Popcorn Reception

Wed, Dec 11 | 5:00pm-7:00pm | Location: Int'l Terrace
Register early and network with your fellow students!

THURSDAY, DECEMBER 12

Welcome to SANS General Session

Speaker: Dr. Eric Cole
Thu, Dec 12 | 8:15am-8:45am | Location: Jefferson

SANS Technology Institute Open House

Speaker: Alan Paller
Thu, Dec 12 | 6:00pm-7:15pm | Location: Georgetown East

Impact your career and learn about the cybersecurity master's degree program that has graduated some of America's most impressive cybersecurity leaders—the only program from an accredited graduate school focused solely on cybersecurity, built on SANS Institute material, granting a Master of Science degree upon graduation and more than five widely respected GIAC certifications even before you graduate.



This is the first major Open House since The SANS Technology Institute announced it was accredited by The Middle States Commission of Higher Education (3624 Market Street — Philadelphia, PA 19104 — 267.284.5000) an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.

President Alan Paller of the SANS Technology Institute will provide authoritative information about SANS master's degree programs, their potential impact on your career, and how they might qualify for your employer's tuition reimbursement plan. Graduates and current students will be available to answer your questions.

Are you qualified to be one of the 100 new students we will accept into the programs in 2014? Join us at the Open House to learn more.

Special Events

KEYNOTE

APT: It is Time to Act

Speaker: Dr. Eric Cole
Thu, Dec 12 | 7:15pm-9:15pm | Location: Jefferson

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 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 that "Prevention is Ideal, but Detection is a Must." He will help you 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.

FRIDAY, DECEMBER 13

Vendor Solutions Expo

Fri, Dec 13 | 12:00pm-1:30pm & 5:00pm-7:00pm
Location: Columbia Hall Foyer

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 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

Fri, Dec 13 | 5:00pm-7:00pm | Location: Columbia Hall Foyer

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.

SANS@NIGHT

Windows Exploratory Surgery with Process Hacker

Speaker: Jason Fossen
Fri, Dec 13 | 7:15pm-8:45pm | Location: Georgetown East

In this talk we'll rummage around inside the guts of Windows while on the lookout for malware, using a free tool named Process Hacker (similar to Process Explorer). Understanding processes, threads, drivers, handles, and other OS internals is important for analyzing malware, doing forensics, troubleshooting, and hardening the OS. If you have a laptop, get Process Hacker from SourceForge.net and together we'll take a peek under the GUI to learn about Windows internals and how to use Process Hacker for combating malware.

Special Events

SANS@NIGHT

Have no fear - DFIR is here!

Speakers: Rob Lee, Chad Tilbury, Alissa Torres, and Lenny Zeltser
Fri, Dec 13 | 7:15pm-8:45pm | Location: Jefferson

In an age of darkness, at a time of evil... When the cyberworld needed heroes, what it got was this team. In less time than it takes you to watch the Avengers, the DFIR hero team will take you through an end-to-end investigation starting with core steps in digital forensics, incident response, memory analysis, and RE Malware. Instructors Chad Tilbury (FOR408: Digital Forensics), Rob Lee (FOR508: Incident Response), Alissa Torres (FOR526: Windows Memory Forensics), and Lenny Zeltser (FOR610: REM) will step through how key skills are used to solve a single case. The tag team approach will detail how teams can be leveraged in your environment to effectively respond to incidents on a single system and the enterprise. Four forensicators, one million hackers — the odds are just about even.

STI MASTER'S PRESENTATION

Discovering Security Events of Interest Using Splunk

Speaker: Carrie Roberts

Fri, Dec 13 | 8:15pm - 8:55pm | Location: Columbia Hall 12

Security events of interest can be discovered by analyzing several different sources of machine data, including logs. Applications and the servers they run on contain many valuable logs which detail the events that have occurred on them. By analyzing and correlating this data, important information about the attacks against these systems can be discovered. Splunk is a powerful tool for analyzing such data. It provides a high performance solution for analyzing large amounts of unstructured data from multiple sources. This presentation includes a description of Splunk software features and architecture. Methods for setting up a Splunk server and forwarding data to it from multiple sources are included. Example searches and use of pre-built add on functionality is given. It is a concise, comprehensive guide for deploying and using a centralized system for intelligence gathering, with a focus on detecting security events of interest.

SATURDAY, DECEMBER 14

SANS@NIGHT

Continuous Ownage:

Why you Need Continuous Monitoring

Speakers: Eric Conrad and Seth Misenar

Sat, Dec 14 | 7:15pm-8:15pm | Location: Jefferson

Repeat after me, I will be breached. Most organizations realize this fact too late, usually after a third party informs them months after the initial compromise. Treating security monitoring as a quarterly auditing process means most compromises will go undetected for weeks or months. The attacks are continuous, and the monitoring must match. This talk will help you face this problem and describe how to move your organization to a more defensible security architecture that enables continuous security monitoring. The talk will also give you a hint at the value you and your organization will gain from attending Seth Misenar and Eric Conrad's new course: Continuous Monitoring and Security Operations.

Special Events

SANS@NIGHT

Security Onion: Installed and Now What?

Speaker: Chris Mohan

Sat, Dec 14 | 7:15pm-8:15pm | Location: Georgetown East

Security Onion is one the easiest and most effective way to deploy a free Network Security Monitoring (NSM) solution. Download it from SourceForge.net, boot the ISO image, follow the super quick setup guide, then Security Onion is up and running. See, it's easy. But what do you do after that?

We'll go through the steps to make sure everything is tested, alerting, and working as expected before you run into a real attack. By going through these steps now, you'll avoid that steep learning curve of learning how to do real incident response with Security Onion. Throw in a couple of today's current attacks, just to see what they look like, and you'll be ready to go out and build out your own working, pre-tested NSM environments.

STI MASTER'S PRESENTATION

A Predictive Security Model Using Bayesian Networks

Speaker: Dan Lyon

Sat, Dec 14 | 7:15pm-7:55pm | Location: Columbia Hall 12

Designing systems with security at the front of the product development cycle is the only way to ensure a secure system, but how do you measure security on a system under design? The information security industry lacks a concrete method to collect meaningful metrics on existing systems, primarily because a security breach that has not been detected cannot be measured. In development, this lack of detection problem is amplified by not having the system available for penetration testing. Therefore the current approach from the information security community is inadequate, and a new model must be created that enables appropriate business and design decisions. This presentation will show a model using Design for Six Sigma techniques to measure a system's level of security.

SANS@NIGHT

An Introduction to PowerShell for Security Assessments

Speaker: James Tarala

Sat, Dec 14 | 8:15pm-9:15pm | Location: Jefferson

With the increased need for automation in operating systems, every platform now provides a native environment for automating repetitive tasks via scripts. Since 2007, Microsoft has gone "all in" with their PowerShell scripting environment, providing access to every facet of the Microsoft Windows operating system and services via a scriptable interface. Administrators can completely administer and audit not only an operating system from this shell, but most all Microsoft services, such as Exchange, SQL Server, and SharePoint services as well. In this presentation James Tarala of Enclave Security will introduce students to using PowerShell scripts for assessing the security of the Microsoft services. Auditors, system administrators, penetration testers, and others will all learn practical techniques for using PowerShell to assess and secure these vital Windows services.

Special Events

SANS@NIGHT

Closing the Door on Web Shells

Speaker: Anuj Soni

Sat, Dec 14 | 8:15pm-9:15pm | Location: Georgetown East

While many attackers install malware on end-user workstations to accomplish their goals, external-facing servers continue to be prime targets of attack. In many of these cases, web shell backdoors are utilized by the adversary to download/upload files, execute arbitrary commands, and access back-end databases and other resources. Web shells are often heavily customized and obfuscated to evade detection. They may be only several lines of code, and they can be deployed on a variety of platforms. Every incident responder should be familiar with this dangerous category of malware. This talk will discuss how web shells work, dive deep into several specimens, discuss approaches to detect related activity, and touch on some best practices to reduce the likelihood of ever seeing them on your systems.

STI MASTER'S PRESENTATION

Active Deception to Augment Intrusion Detection

Speaker: Josh Johnson

Sat, Dec 14 | 8:15pm-8:55pm | Location: Columbia Hall 12

SUNDAY, DECEMBER 15

GIAC Program Overview

Speaker: Jeff Frisk

Sun, Dec 15 | 7:15pm-8:15pm | Location: Georgetown East

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

Booting a Write-blocked Drive to a VM Using Linux (Ubuntu)

Speaker: Carlos Cajigas

Sun, Dec 15 | 7:15pm-8:15pm | Location: Columbia 12

SANS@NIGHT

Who's Watching the Watchers?

Speaker: Mike Poor

Sun, Dec 15 | 7:15pm-8:15pm | Location: Columbia 5

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

Special Events

SANS@NIGHT

Sharing Without Borders: Attacking and Testing SharePoint

Speaker: Kevin Johnson

Sun, Dec 15 | 8:15pm-9:15pm | Location: Columbia 5

SharePoint has become one of the most common platforms in organizations today. Originally designed for simple content management, it has grown into a workflow, CMS, and communication powerhouse that runs on the Internet and intranets all over the world. While it is powerful, most organizations do not realize the risks it exposes within their organization. Kevin Johnson will be walking attendees through the systems available under the SharePoint name, as well as showing ways that penetration testers are able to assess and exploit them. He will also be releasing a series of tools and guidelines to help organizations assess their SharePoint systems.

NETWARS

There will be three simultaneous NetWars Tournament events held at SANS CDI 2013:

Pen Testing NetWars Tournament

Host: Yori Kvitchko

Dec 15 & 16 | 6:30-9:30pm | Location: Lincoln/Monroe

Pen Testing NetWars Tournament is designed to help participants develop skills in several critical pen testing areas:

- Vulnerability Assessments
- Incident Response
- System Hardening
- Packet Analysis
- Malware Analysis
- Penetration Testing

DFIR NetWars Tournament

Host: Rob Lee

Dec 15 & 16 | 6:30-9:30pm | Location: Jefferson

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

- Host forensics
- Network forensics
- Malware analysis
- Memory analysis

SANS NETWARS TOURNAMENT of CHAMPIONS

An invite-only Tournament where the best-of-the-best from past competitions have been invited to face off.

Special Events

SANS@NIGHT

Hacking Back, Active Defense, and Internet Tough Guys

Speaker: John Strand

Sun, Dec 15 | 8:15pm-9:15pm | Location: Georgetown West

In this presentation John Strand will demonstrate the Active Defense Harbinger Distribution, a DARPA funded, free Active Defense virtual machine. He will debunk many of the myths, outright lies, and subtle confusions surrounding taking active actions against attackers. From this presentation, you will not only know how to take action against attackers, you will learn how to do it legally.

MONDAY, DECEMBER 16

SANS@NIGHT

Effective Phishing that Employees Like

Speaker: Lance Spitzner

Mon, Dec 16 | 7:15pm-8:15pm | Location: Columbia 5

One of the toughest challenges in establishing a high-impact security awareness program is measuring the impact. Are you changing behavior and reducing risk? Phishing assessments are a powerful way to measure such change, while addressing one of the most common human risks. As more organizations use phishing assessments, many of them are doing it wrong, not only negatively impacting their metrics but generating resentment among employees. In this short presentation, learn how to create a fun, engaging phishing program that not only effectively measures and reinforces key behaviors, but is also truly enjoyed by employees.

SANS@NIGHT

New School Forensics: Latest Tools and Techniques in Memory Analysis

Speaker: Chad Tilbury

Mon, Dec 16 | 7:15pm-8:15pm | Location: Georgetown East

Whether you are just getting started with memory forensics, or you have been at it since the early days, the last year produced a wealth of new memory analysis capabilities. Notably, nearly all of the progress has been accomplished in free and open source tools. Learn about the latest and greatest additions to the memory forensics arsenal: in-memory registry forensics; building and analyzing memory object timelines; Mac and Linux memory analysis; and the advantages of live memory analysis.

Special Events

SANS@NIGHT

Using RE to Turn the Tables!

Speaker: David Hoelzer

Mon, Dec 16 | 8:15pm-9:15pm | Location: Georgetown East

In this 60 minute presentation we will examine the discovery of a piece of targeted malware, discover hidden features and use the malware's own libraries to turn the tables on the attacker to recover the passwords used to safeguard the "hidden features" and administrative interfaces that the malware contains! While the presentation will demonstrate reverse engineering, including binary disassembly, the discussion is always at a level that anyone attending can walk away with useful information, whether you are deeply technical or a C level executive! Come and help us turn the tables on this attacker!

SANS@NIGHT

Securing The Kids

Speaker: Lance Spitzner

Mon, Dec 16 | 8:15pm-9:15pm | Location: Columbia 5

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 SANS Securing The Human program.

Key takeaways include:

- Why securing kids online is harder then securing kids in the physical world
- Top three risks they face; strangers, friends and themselves
- Use of education to inform and secure them
- Use of a dedicated computer just for kids
- Kids Acceptable Use Policy
- Filtering and monitoring tools
- Additional lessons learned and resources to learn more



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	SEC503 – \$449
FOR408 – \$449	SEC504 – \$449
FOR508 – \$449	SEC505 – \$449
FOR610 – \$449	SEC542 – \$449
MGT414 – \$449	SEC566 – \$449
MGT512 – \$449	SEC575 – \$449
SEC301 – \$449	SEC579 – \$449
SEC401 – \$449	SEC617 – \$449
SEC501 – \$449	

Three ways to register!

Visit the registration desk on-site

Call (301) 654-SANS

Write to ondemand@sans.org

Vendor Events

Vendor Solutions Expo

Friday, December 13

12:00pm-1:30pm & 5:00pm-7:00pm

Location: Columbia Hall Foyer

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 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

Friday, December 13 | 5:00pm-7:00pm

Location: Columbia Hall Foyer

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-Sponsored Lunch Session

Friday, December 13 | 12:00pm - 1:30pm

Location: Columbia Hall Foyer

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 are:

LogRhythm

BEW Global

Emulex

BeyondTrust

General Dynamics Fidelis Cybersecurity

Vendor Events

Vendor Sponsored Lunch & Learns

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

LUNCH & LEARN



Building a Security Program that Protects an Organization's Most Critical Assets – A Different Approach

Speaker: Robert Eggebrecht, President and CEO, BEW Global
Thu, Dec 12 | 12:30pm – 1:15pm | Location: Monroe

Join BEW Global as we discuss the step-by-step process to building a risk-based, cost-effective critical asset protection program.

Topics covered:

- Obtaining executive level management buy-in / involvement
- Defining assets based on revenue, income, reputation, core operational impact
- Building / optimizing the program and creating a milestone program for business leaders

LUNCH & LEARN



Fortinet Next Generation Firewalls

Speaker: Justin Kallhoff, CEO Infogressive
Thu, Dec 12 | 12:30pm – 1:15pm | Location: Lincoln

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.

Vendor Events

LUNCH & LEARN



The Power of Lossless Packet Capture (1G-100G) & Real-Time Netflow

Speaker: Ron Leibfreid – Senior Sales Engineer, Emulex
Sat, Dec 14 | 12:30pm – 1:15pm | Location: Lincoln

With network speeds of 10G, 40G, and even 100G now deployed in many production environments, organizations are finding it harder than ever to maintain the level of network visibility they were used to seeing at 1G. Furthermore, many commercial and open source network & security tools do not scale well at these higher data rates. Finding the root cause problem to security and network issues is now taking longer and incident response times are increasing, not decreasing. This presentation will cover the benefits of a security architecture that incorporates a high-speed loss-less packet capture fabric and the generation of real-time Netflow data to improve network visibility, decrease incident response time, and better aid in the identification of root cause issues many organizations are facing today.

LUNCH & LEARN

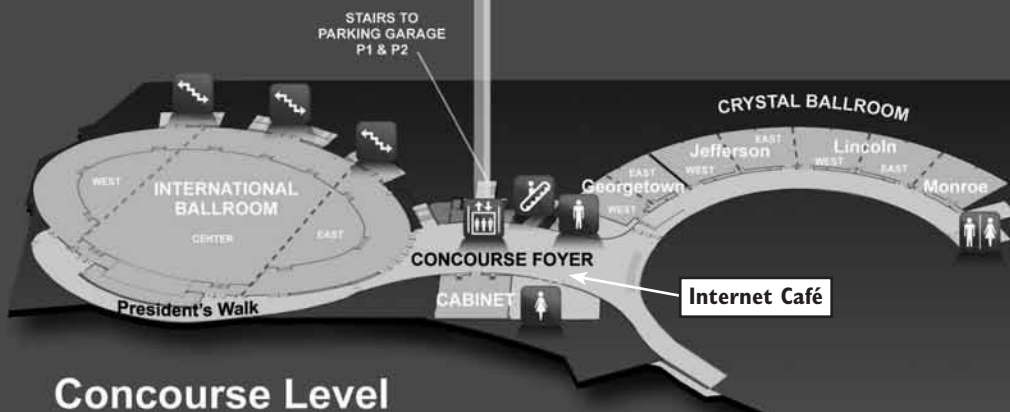
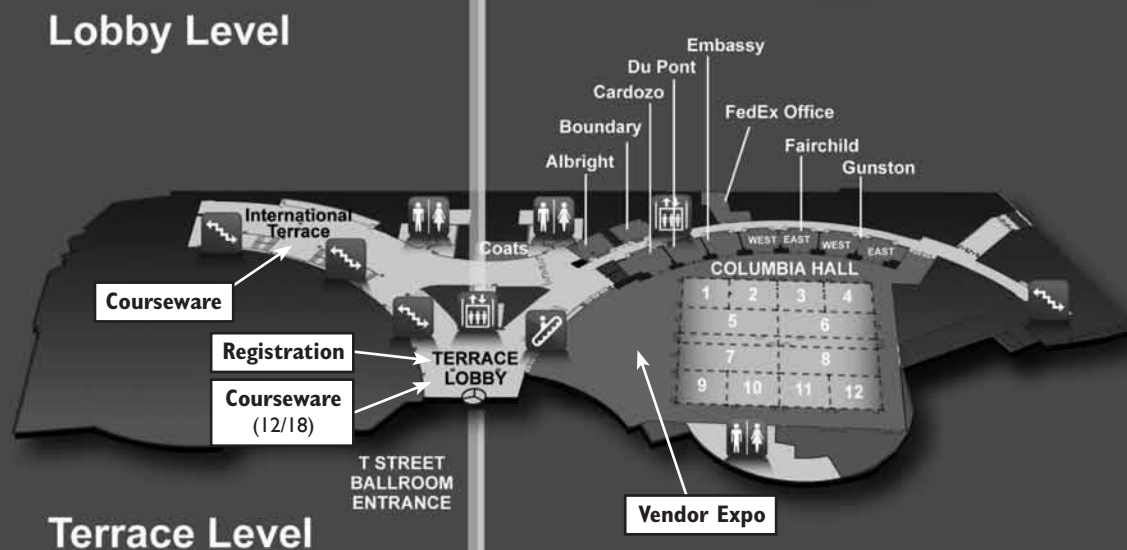


Targeted, Wire-speed Yara Analysis for Real-time Malware Prevention

Speaker: Mike Nichols, Technical Product Manager
Mon, Dec 16 | 12:30pm – 1:15pm | Location: Lincoln

Yara is an excellent content identification and classification system used by malware analysts and reverse engineers to apply signatures to data-at-rest and identify or discover malicious files. A new way of discovery and detection can be harnessed by using a granular application of Yara signatures to data-in-motion as it transits your network to prevent the threat from reaching the end user.

Hotel Floor plans



Parking Level P1



Parking Level P2

Dining Options

McClellan's Sports Bar

McClellan's Sports Bar is the perfect place to watch the game and unwind after a long day of travel and meetings. McClellan's offers a wide selection of draft and bottle beers and a knowledgeable bar staff that will prepare your favorite cocktails. McClellan's is the perfect Washington DC dining option with great food, the perfect beverage, comfortable seating and 15 flat screen televisions that will allow you to enjoy the evening.

TDL Bar

Situated in the heart of Washington Hilton's lobby, TDL Bar is the ideal spot to meet, mingle or unwind. Enjoy refreshing handcrafted cocktails, regional wines and draft beers, complimented with a selection of locally-inspired dishes, signature flatbreads and small plates perfect for sharing. Large stone-top communal tables, easy-access electric outlets and complimentary WiFi provide the perfect place to spread out and stay connected, while more intimate seating scattered throughout is great for networking.

The Coffee Bean & Tea Leaf

Start the day with a java to go, whether it's hot brewed or blended with ice. The Coffee Bean & Tea Leaf provides the perfect place to grab your favorite gourmet coffee, loose-leaf tea, flaky pastry or filling sandwich in a relaxed setting with cozy seating, complimentary WiFi and TVs featuring the latest in news, sports and entertainment.

The District Line Restaurant

Enjoy an authentic, contemporary urban neighborhood gathering place, serving up handcrafted cocktails, chalkboard specials and a host of hearty American comfort foods with a local twist. The menu features a variety of regionally-inspired comfort foods and seasonal dishes with high-quality, fresh ingredients from farmers within 150 miles of Washington, D.C. Semi-private dining for up to 60 guests is available. The District Line Restaurant is open for breakfast, including the signature Hilton Breakfast buffet, as well as lunch and dinner.

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Austin, TX | Feb 3-8

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Washington, DC | Feb 4-11

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Online Training | Feb 10-15

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Scottsdale, AZ | Feb 17-22

RSA Conference 2014

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SANS Cyber Guardian 2014

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SANS Northern Virginia 2014

Reston, VA | Mar 17-22

SANS 2014

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San Diego, CA | May 10-15

For a full list of training events, please visit www.sans.org.

Dates and locations are subject to change.