

SANS

Security West

San Diego, CA | April 29 – May 6, 2016

Program Guide



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#SecurityWest



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NETWARS

TOURNAMENTS

Stop by the Registration Desk
for more information.



Hosted by Rob Lee and Philip Hagen
Wednesday, May 4 and Thursday, May 5
6:30pm - 9:30pm | Harbor Ballroom B



Hosted by Jeff McJunkin
Wednesday, May 4 and Thursday, May 5
6:30pm - 9:30pm | Harbor Ballroom G & H

General Information

Registration Information

Location: Promenade Foyer (3RD LEVEL)

Friday, April 29 (2-day classes only) 8:00am - 9:00am

Location: Harbor Ballroom Foyer (2ND LEVEL)

Saturday, April 30 (Welcome Reception) 5:00pm - 7:00pm

Sunday, May 1 7:00am - 5:30pm

Monday, May 2 - Friday, May 6. 8:00am - 5:00pm

Courseware Pick-up Information

Location: Promenade Foyer (3RD LEVEL)

Fri, April 29 (2-day classes only) 8:00am - 9:00am

Location: Harbor Ballroom Foyer (2ND LEVEL)

Saturday, April 30 (Welcome Reception) 5:00pm - 7:00pm

Sunday, May 1 7:00am - 5:30pm

Monday, May 2 - Friday, May 6. 8:00am - 5:00pm

Internet Café

Location: Promenade Foyer (3RD LEVEL)

Sunday, May 1 Opens at noon — 24 hours

Monday, May 2 - Thursday, May 5 Open 24 hours

Friday, May 6 Closes at 2:00pm

Course Times

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

Course Breaks

7:00am - 9:00am — Morning Coffee

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 Sunday, May 1

at the General Session in Harbor Ballroom I.

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 after each course day and drop it in the evaluation box.

Twitter

Join the conversation on Twitter and use the hashtag **#SecurityWest** for up-to-date information from fellow attendees!

Wear Your Badge Daily

To make sure you are in the right place, the SANS door monitors will be checking your badge for each course and bonus session 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 in the Harbor 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)

SEC401: Security Essentials Bootcamp Style

SEC511: Continuous Monitoring and Security Operations

SEC660: Advanced Penetration Testing, Exploit Writing, and Ethical Hacking

MGT414: SANS Training Program for CISSP Certification®

Extended Hours:

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

SEC560: Network Penetration Testing and Ethical Hacking

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

Course Schedule

START DATE: **Friday, April 29**

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

SEC440: Critical Security Controls:

Planning, Implementing, and Auditing

Instructor: Greg Porter Location: Solana Beach AB

SEC580: Metasploit Kung Fu for Enterprise Pen Testing

Instructor: Pieter Danhieux Location: Marina

MGT415: A Practical Introduction to Risk Assessment

Instructor: James Tarala Location: Torrey Hills AB

MGT535: Incident Response Team Management

Instructor: Randy Marchany Location: Golden Hill AB

START DATE: **Sunday, May 1**

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

SEC401: Security Essentials Bootcamp Style

Instructor: Dr. Eric Cole Location: Harbor Ballroom I

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

SEC501: Advanced Security Essentials – Enterprise Defender

Instructor: Paul A. Henry Location: Harbor Ballroom D

SEC503: Intrusion Detection In-Depth

Instructor: Mike Poor Location: Hillcrest AB

SEC504: Hacker Tools, Techniques, Exploits & Incident Handling

Instructor: Bryce Galbraith Location: Harbor Ballroom G

EXTENDED HOURS: 5:00pm - 7:15pm (Course Day 1 only)

SEC505: Securing Windows with PowerShell and the Critical Security Controls

Instructor: Jason Fossen Location: Harbor Ballroom E

SEC511: Continuous Monitoring and Security Operations

Instructor: Eric Conrad Location: Harbor Ballroom C

SEC542: Web App Penetration Testing & Ethical Hacking

Instructor: Seth Misenar Location: Harbor Ballroom F

SEC560: Network Penetration Testing and Ethical Hacking

Instructor: Ed Skoudis Location: Harbor Ballroom H

EXTENDED HOURS: 5:00pm - 7:15pm (Course Day 1 only)

Course Schedule

SEC575: Mobile Device Security and Ethical Hacking

Instructor: Joshua Wright Location: Regatta BC

SEC660: Network Penetration Testing and Ethical Hacking

Instructor: Stephen Sims Location: Regatta A

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

FOR408: Windows Forensic Analysis

Instructor: Rob Lee Location: Harbor Ballroom B

FOR508: Advanced Computer Forensic Analysis and Incident Response

Instructor: Jake Williams Location: Promenade AB

FOR518: Mac Forensic Analysis

Instructor: Sarah Edwards Location: Marina

FOR572: Advanced Network Forensics and Analysis

Instructor: Philip Hagen Location: Mission Beach C

MGT414: SANS Training Program for CISSP® Certification

Instructor: David R. Miller Location: Hillcrest CD

BOOTCAMP HOURS: 8:00am - 9:00am (Course days 2-6) &

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

DEV522: Defending Web Applications Security Essentials

Instructor: Johannes Ullrich, Ph.D. Location: Cortez Hill BC

START DATE: **Monday, May 2**

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

SEC301: Intro to Information Security

Instructors: Keith Palmgren Location: Harbor Ballroom A

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

Instructor: James Tarala Location: Torrey Hills AB

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

Instructor: G. Mark Hardy Location: Golden Hill AB

EXTENDED HOURS: 5:00pm - 6:00pm (Course days 1-4)

MGT514: IT Security Strategic Planning, Policy and Leadership

Instructors: Ted Demopoulos, Frank Kim Location: Solana Beach AB

ICS410: ICS/SCADA Security Essentials

Instructor: Eric Cornelius Location: Mission Beach AB

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, APRIL 30

Registration Welcome Reception

Saturday, April 30 | 5:00pm - 7:00pm | Location: Harbor Ballroom Foyer
Register early and network with your fellow students!

SUNDAY, MAY 1

Welcome to SANS General Session

Speaker: Bryan Simon

Sunday, May 1 | 8:15am - 8:45am | Location: Harbor Ballroom I

Join us for a 30-minute overview to help you get the most out of your SANS training experience. You will receive event information and learn about programs and resources offered by SANS. This brief session will answer many questions and get your training experience off to a great start. This session will be valuable to all attendees but is highly recommended for first time attendees.

SPECIAL EVENT

SANS CyberTalent Assessment and Demonstration

Speaker: Maxwell Shuftan

Sunday, May 1 | 6:00pm - 7:00pm | Location: Mission Beach AB

Traditional ways of finding, developing, and retaining talent are no longer effective in cybersecurity. SANS CyberTalent provides innovative thinking and solutions for our industry's unique talent management needs. Join us to learn how CyberTalent products can give you faster and more reliable ways to find, train, certify, and retain high-performing cyber talent.

Special Events

KEYNOTE

CISO Hot Topic Series: Communicating to and Influencing CEOs and Boards of Directors: What Works and What to Avoid

Speaker: John Pescatore

Sunday, May 1 | 7:15pm - 9:15pm | Location: Harbor Ballroom A

Join John Pescatore and Alan Paller at the Keynote opening of SecWest as we bring together CISOs and a prominent member of corporate boards to address a very timely CISO hot topic: How to inform and influence the CEO and board of directors to drive change and improve cybersecurity at your company or agency.

Shellye Archambeau, CEO of MetricStream and member of the board of directors of Nordstrom and Verizon, will give an opening talk on what boards of directors are looking for from security managers.

John Pescatore, SANS Director of Emerging Security Trends will lead a discussion featuring a panel of CISOs as they discussed lessons learned in trying to inform and influence CEOs and boards.

Panelists include:

Gary Hayslip, CISO of the City of San Diego

Josh Davis, CISO of Qualcomm

Jason Callahan, CISO of Illumina

The panel will focus on two primary areas:

1. How CISOs can communicate effectively with Boards of Directors and CEOs to improve cybersecurity
2. How they plan on dealing with the major cybersecurity challenges in their industries in the coming few years

Alan Paller, SANS Director of Research, and John Pescatore will close the session with a joint talk on "Proven Ways to Measure the Right Security Metrics and Communicate Them Effectively."

Attendees will get a "What Works" view from all speakers and have an opportunity to gain from the lessons learned from security leaders across a variety of industries. Immediately following the keynote attendees will have the opportunity to participate in a networking session.

Special Events

MONDAY, MAY 2

LUNCH & LEARN

SANS CyberTalent

Speaker: Maxwell Shuftan

Monday, May 2 | 12:30pm - 1:15pm | Location: Harbor Ballroom G

Traditional ways of finding, developing, and retaining talent are no longer effective in cybersecurity. SANS CyberTalent provides innovative thinking and solutions for our industry's unique talent management needs. Join us to learn how CyberTalent products can give you faster and more reliable ways to find, train, certify, and retain high-performing cyber talent.

SANS@NIGHT

GIAC Program Presentation

Speaker: Seth Misenar

Monday, May 2 | 6:15pm - 7:15pm | Location: Harbor Ballroom F

GIAC is the leading provider and developer of Information Security Certifications. GIAC tests and validates the ability of practitioners in information security, forensics, and software security. GIAC certification holders are recognized as experts in the IT industry and are sought after globally by government, military, and industry to protect the cyber environment. Join us for an informational presentation along with a Q and A session. We'll cover everything from why you should get certified, what testing looks like, how to keep certifications current, and more.

SANS@NIGHT

Emerging Trends in DFIR – Lightning Talks

Speakers: Rob Lee, Phil Hagen, Sarah Edwards, Jake Williams

Monday, May 2 | 7:15pm - 9:15pm | Location: Harbor Ballroom B

Join the top SANS DFIR Faculty as they unveil their top Emerging Trends in DFIR in a series of lively, hard-hitting lightning talks (15 minutes each). Get a glimpse into the near future for incident response, threat hunting, cyber threat intelligence, and digital forensics.

SANS@NIGHT

How to Bring Some Advanced Persistent Trickery to Your Fight Against Advanced Persistent Threats

Speaker: Bryce Galbraith

Monday, May 2 | 7:15pm - 8:15pm | Location: Harbor Ballroom A

You know you have intruders in your house...but this is your house and no one knows it better than you. Don't sit back and wait. It's game on. This presentation will explore ways that you can frustrate, annoy, and potentially reveal advanced persistent threats with active defense, offensive countermeasures and cyber deception (and do it legally and ethically).

Special Events

SANS@NIGHT

Using an Open-Source Threat Model for Prioritized Defense

Speaker: James Tarala

Monday, May 2 | 7:15pm - 8:15pm | Location: Harbor Ballroom D

Threat actors are not magic and there is not an unlimited, unique list of threats for every organization. Enterprises face similar threats from similar threat sources and threat actors – so why does every organization need to perform completely unique risk assessments and prioritized control decisions? This presentation will show how specific, community-driven threat models can be used to prioritize an organization's defenses – without all the confusion. In this presentation James Tarala will present a new, open, community-driven threat model that can be used by any industry to evaluate the risk that faces them. Then he will show how to practically use this model to prioritize enterprise defense and map to existing compliance requirements facing organizations today. Whether you are in the Department of Defense or work for a small mom-and-pop retailer, you will be able to use this model to specifically determine a prioritized defense for your organization.

SANS@NIGHT

IoT Summer of Hacking (the month Josh was forced to wear pants)

Speaker: Josh Wright

Monday, May 2 | 8:15pm - 9:15pm | Location: Harbor Ballroom A

Over the summer, Josh took on a special project. The setup was straightforward: login to Amazon, and buy popular Internet of Things (IoT) devices. The goal was also straightforward: build remote exploits for the devices. In this talk, Josh will present his findings from his Summer of IoT Hacking, presenting the techniques used for attacking popular IoT devices. He will share the entertaining, saddening, and downright disconcerting lessons learned, and how you can apply these techniques to expand your breadth of skills in your next penetration test.

STI MASTER'S PRESENTATION

Critical Controls That Might Have Prevented the Target Breach

Speaker: Teri Radichel – Master's Degree Candidate

Monday, May 2 | 8:15pm - 8:55pm | Location: Mission Beach AB

In December 2013, Target was compromised by malware that stole over 40 million credit cards, cost over \$200 million in losses and resulted in over 140 lawsuits. What happened and what could have prevented it? Find out the series of steps that attackers likely took based on analysis of information published about the breach – reconnaissance, compromised systems, network traversal, exploitation of unencrypted data, incident response failure and data exfiltration. An alternative scenario is presented showing what might have happened if the 20 Critical Controls published by the Center for Internet Security had been applied at each of those steps.

Special Events

TUESDAY, MAY 3

SPECIAL EVENT

Women's CONNECT Event

Hosted by SANS COINS program and ISSA WIS SIG

Tuesday, May 3 | 6:00pm - 7:00pm | Location: Harbor Ballroom Foyer

Joins SANS and ISSA International Women In Security Special Interest Group (WIS SIG) as we partner with local association chapters and groups to foster an evening of connections, both by having their members attend and having group representatives on hand to discuss their group, its activities and benefits of membership. 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 to hear some of these stories and come share your own. After the discussions, stay and network with other attendees as well as the various groups who will be featured at the event.

SANS@NIGHT

Pen Testing and Hacking Trends Panel

Moderator: Ed Skoudis

Panelists: Stephen Sims, Josh Wright, Jeff McJunkin, Bryce Galbraith

Tuesday, May 3 | 7:15pm - 9:15pm | Location: Harbor Ballroom H

With the rapid rise of new attack techniques, penetration testing is evolving in exciting ways. Today's pen testers are increasingly relying on PowerShell, AV evasion, and much more as they work to model the tactics of real-world bad guys. Additionally, the rise of Red Team methodologies offer new opportunities for penetration testers to provide even more value to their organizations. In this panel, some of SANS top penetration testing instructors will engage in a lively discussion about these trends, sharing tools, tips, and tricks with all attendees.

SANS@NIGHT

How to Build a Cybersecurity Platform the Easy Way

Speaker: Keith Palmgren

Tuesday, May 3 | 7:15pm - 8:15pm | Location: Harbor Ballroom E

Building a cybersecurity program is easy. Building a cybersecurity program that is effective is seriously hard! When faced with a seemingly insurmountable task, prioritization is vital. Investing time and money in the right place at the right time is the difference between success and being the next cyber-breach headline. Whether you are new to cybersecurity or

Special Events

an old hand, you may feel lost in the storm. If so, this talk is for you. Cybersecurity's five historic and current pitfalls that prevent organizations from building an effective IT security platform will be discussed: Poor Passwords, Vulnerabilities, Malware/Crimeware, Insider Threat, and Mismanagement. To build that effective cybersecurity platform in today's ever-changing information technology environment, organizations must prioritize and focus on five key principles that address those pitfalls. We must look at those critical security principles in new and different ways: The Principle of Least Privilege; Authentication, Authorization, and Accountability; Confidentiality, Integrity, and Availability; Policy, Procedure, and Training; Hardening, Patching, and Monitoring; and Protect, Detect, and Respond. Every organization needs a cybersecurity strategy. An effective strategy requires that you understand the problems as well as the solutions to those problems. Only then can you prioritize your limited cybersecurity resources. Managers and technicians alike will gain valuable insight in this non-technical talk.

SANS@NIGHT

The Tap House

Speaker: Phil Hagen

Tuesday, May 3 | 7:15pm - 8:15pm | Location: Harbor Ballroom D

Packets move pretty fast. The field of Network Forensics needs to move fast, too. Whether you are investigating a known incident, hunting unidentified adversaries in your environment, or enriching forensic findings from disk- and memory-based examinations, it's critical to stay abreast of the latest developments in the discipline. In this SANS@Night series, Phil Hagen will discuss some of the latest technologies, techniques, and tools that you will want to know in pursuit of forensication nirvana.

SANS@NIGHT

Quality not Quantity: Continuous Monitoring's Deadliest Events

Speaker: Eric Conrad & Seth Misenar

Tuesday, May 3 | 8:15pm - 9:15pm | Location: Harbor Ballroom F

Most Security Operations Centers are built for compliance, not security. One well-known retail firm suffered the theft of over a million credit cards. 60,000 true positive events were reported to their SOC during that breach... and missed, lost in the noise of millions. If you are bragging about how many events your SOC "handles" each day, you are doing it wrong. During this talk we will show you how to focus on quality instead of quantity and provide an actionable list of the deadliest events that occur during virtually every successful breach.

Special Events

STI MASTER'S PRESENTATION

The Dangerous Shifting of Trust

Speaker: Sandra Dunn — Master's Degree Candidate

Tuesday, May 3 | 8:15pm - 8:55pm | Location: Mission Beach AB

TLS Certificates are the pervasive trust anchor used throughout networks both inside and outside of the firewall. Often they are too trusted and become the weapon of choice for attackers looking for the easiest way to bypass the first layers of controls. Implementing additional layers of certificate quality controls (DID) reduces the TLS certificate attack surface and provides a highly reliable trust anchor. Preventing TLS certificate weaponization requires executive-level support and metrics reporting, up to date and enforced policy, formal management tools and strategy, red and blue team testing, and auditing beyond PCI compliance.

WEDNESDAY, MAY 4



Hosts: Rob Lee & Philip Hagen

Wed, May 4 & Thu, May 5 | 6:30pm - 9:30pm | Location: Harbor Ballroom B

SANS DFIR NetWars Tournament is an incident simulator packed with a vast amount of forensic and incident response challenges covering host forensics, network forensics, and malware and memory analysis. It is developed by incident responders and analysts who use these skills daily to stop data breaches and solve crimes. Sharpen your team's skills prior to being involved in a real incident.



Host: Jeff McJunkin

Wed, May 4 & Thu, May 5 | 6:30pm - 9:30pm | Location: Harbor Ballroom G & H

SANS CORE NetWars is a computer and network security challenge designed to test a participant's experience and skills in a safe, controlled environment while having a little fun with your fellow IT security professionals. Many enterprises, government agencies, and military bases are using NetWars to help identify skilled personnel and as part of extensive hands-on training. With Core NetWars, you'll build a wide variety of skills while having a great time.

Special Events

SANS@NIGHT

CISSP® Certification Exam –

Get All the Reasons Why and How to Earn One of the Most Sought-After Certifications

Speaker: David R. Miller

Wednesday, May 4 | 7:15pm - 9:15pm | Location: Harbor Ballroom A

Are you interested in obtaining the CISSP® certification? Are you interested in learning how it might improve your chances of landing that coveted job and enjoying career (and pay) advances? In this talk we will look at how management views this well sought-after certification and we'll review the preparation you'll need to achieve it.

If you plan to take the exam soon, note that on January 15, 2015 (ISC)², the certifying body for the CISSP® certification exam, released a new set of exam objectives for the CISSP® certification exam. These changes were implemented on the CISSP® certification exam beginning April 15, 2015. This new set of exam objectives is a major change from the previous version of the CISSP® exam. (ISC)² has moved and merged content from 10 Domains in the previous exam to form eight Domains of the Common Body of Knowledge in the new exam and have added numerous new topics to the objectives. Come learn the new material you will be tested on and prepare yourself for the 2015 CISSP® Certification exam.

STI MASTER'S PRESENTATION

BitTorrent & Digital Contraband

Speaker: Kenneth Hartman — Master's Degree Candidate

Wednesday, May 4 | 8:15pm - 8:55pm | Location: Mission Beach AB

BitTorrent is a popular peer-to-peer file transfer program that allows participants in a swarm to exchange pieces with each other during the downloading process. Since users do not have to download all pieces from the original publisher, the downloading of very large files in an active swarm is typically faster than other methods used to distribute files. BitTorrent is often used to share pirated music and videos. Unfortunately, it is also used to distribute child pornography. Many people do not understand how the BitTorrent protocol works, including those in law enforcement and the legal profession. This lack of technical understanding combined with various legal issues can result in a weak case against those that are truly guilty or an inadequate defense of those that are not. This talk explains the technology, the criminal investigative process, and the legal and ethical issues surrounding BitTorrent with a goal of improving the base knowledge of those on both sides of the legal process.

Vendor Events

Vendor Solutions Expo

Tuesday, May 3

10:30am - 10:50am (Morning Break) | 3:00pm - 3:20pm (Afternoon Break)

Location: Harbor Ballroom 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-Sponsored Lunch Session

Tuesday, May 3 | 12:00pm - 1:30pm

Location: Harbor Ballroom Foyer

Sign up at SANS Registration to receive a ticket for a few lunch sessions brought to you by sponsoring vendors. Please note, by accepting a lunch ticket, your badge will be scanned and your information will be shared with the sponsoring vendors. Join these sponsoring vendors and others on the expo floor for an introduction to 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.

SANS Security West Luncheon Sponsors are:

AIO Networks	ForeScout Technologies	OpenDNS/Cisco
Arbor Networks	Intersect Alliance	Qualys
Black Duck Software	LightCyber	Spirent Communications
CyberArk	LogRhythm	ThreatConnect
	Nuix	

Vendor Welcome Reception

Tuesday, May 3 | 5:30pm - 7:30pm | Location: Harbor Ballroom 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.

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 event. These sessions feature a light meal or refreshments provided by the sponsor. Sign-up sheets for the events are located on the Community Bulletin Board at the Registration Desk.



Intelligently Applying Security Intelligence for Advanced Threat Hunting and Analysis

Speaker: Jennifer Glenn, Sr. Product Marketing Manager, Advanced Threats
Monday, May 2 | 12:30pm - 1:15pm | Location: Harbor Ballroom F

Despite the overabundance of security technologies in use within today's businesses, incident responders, security analysts and CISOs are still starving for context about attacks they are seeing in their networks. The industry has rallied to fill this gap and now every vendor offers some form of security intelligence. In this session, we'll discuss how to evaluate vendor's security-intelligence offerings as well as best practices for applying that intelligence for threat hunting and analysis.



The Game Has Changed... Ready or Not!

Speaker: Robert McLean
Monday, May 2 | 12:30pm - 1:15pm | Location: Harbor Ballroom I

Blind spots. Security silos. Automated security. Internet of things. All these and more are changing the game when it comes to securing your business. Join us for an informative session that discusses recent research conducted with 400 IT professionals and how you can play to win.

Vendor Events

LUNCH & LEARN



Rising to the Challenge of Web Application Security

Speaker: Dave Ferguson, Application Security Solution Architect

Wednesday, May 4 | 12:30pm - 1:15pm | Location: Harbor Ballroom D

As the web evolved over the years, new paradigms emerged in the way applications were architected and built. Web developers embraced new technologies to speed the construction of software and improve the user experience. You may have noticed that traditional HTML web applications with simple forms and page navigation are quickly disappearing. As an infosec professional how do you have assurance that this new breed of web application is secure? While there is no single answer to that question, we'll explore several application security practices that remain beneficial regardless of the particular development environment or technologies in use.

LUNCH & LEARN



Tackling Endpoint Security With Nuix Insight

Speaker: Quoc Ly, Solutions Architect

Wednesday, May 4 | 12:30pm - 1:15pm | Location: Harbor Ballroom E

Join Nuix for an early look at the Nuix Insight Adaptive Security endpoint product! This lunch session will highlight the capabilities of this revolutionary product and our unique approach to endpoint security. Learn more about Nuix Insight Adaptive Security's endpoint capabilities, including:

1. Protection/Prevention
2. Detection
3. Real Time Forensic Logging
4. Machine Learning & Analytics
5. Response & Remediation
6. Deception

Vendor Events

LUNCH & LEARN



CYBERARK®

The New Cyber Battleground: Inside Your Network

Speaker: Bradley Brown, Manager, Solutions Engineering

Wednesday, May 4 | 12:30pm - 1:15pm | Location: Harbor Ballroom A

The cybersecurity focus has shifted and your organization is vulnerable. CyberArk will discuss how these threats get in, how they are moving within your network, and why it is imperative that you manage the unavoidable security risk in your organization. Privileged access is everywhere and will be leveraged in your environment in the event of a breach.

VENDOR @NIGHT



C.A.T.S. Demo

Think Like An Attacker: Hacker Simulation Challenge

Monday, May 2 | 6:00pm - 8:00pm | Location: Solana Beach AB

LightCyber will present a Hacker Simulation Challenge to test the abilities of security professionals to find the bad guys in cyber-attack technique! The challenge will utilize LightCyber's Cyber Attack Training System (C.A.T.S.) which provides a live simulated enterprise network environment. During the challenge, you will use your hacking skills to break into the network of a simulated healthcare organization to exfiltrate the target data. Not only are bragging rights at stake, but so are prizes:

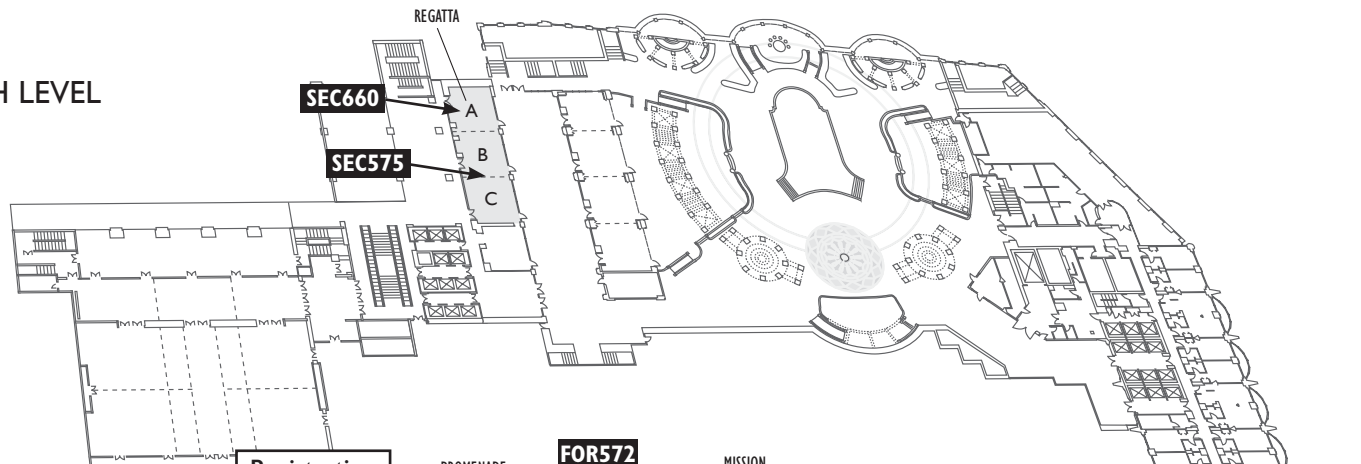
- All participants will receive a t-shirt!
- All winners who exfiltrate the data receive a C.A.T.S. hoodie.
- The first person to get the data also wins a BB-8 robot.

Space is limited, so sign up today.

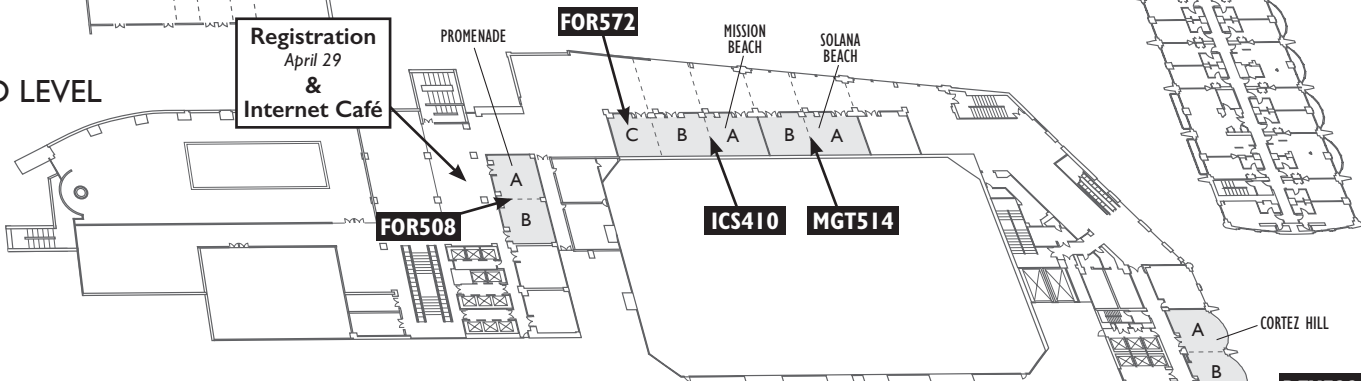
You will need to bring your laptop to participate.

HOTEL FLOOR PLANS

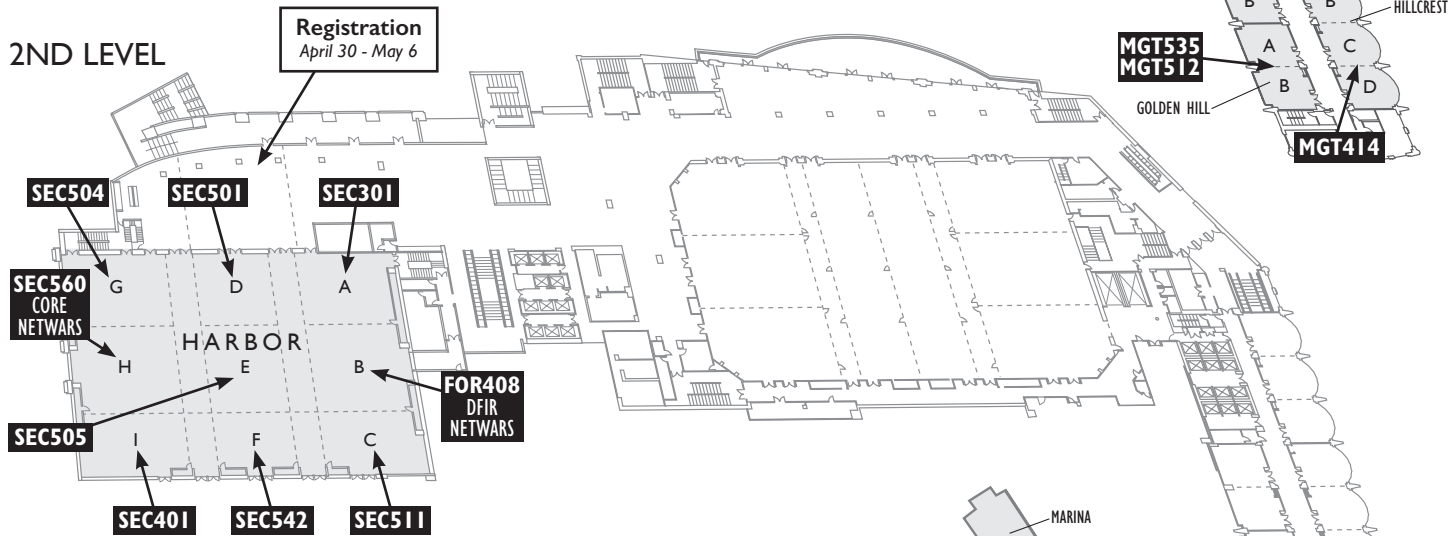
4TH LEVEL



3RD LEVEL



2ND LEVEL



LOBBY LEVEL



Dining Options

SALLY'S SEAFOOD ON THE WATER

Located on the Marina behind the hotel's Harbor Tower

Fresh seafood, charm and panoramic views of San Diego Bay create this institution in Southern California seafood.

LAEL'S RESTAURANT

Located at Lobby Level, Harbor Tower

Join us for our decadent breakfast buffets every morning featuring fresh scrambles, omelets, waffles, pastries, oatmeal, crispy bacon, potatoes and daily specials.

REDFIELD'S SPORTS BAR

Located at Lobby Level, Seaport Tower

Join in a lively game of darts or billiards and nosh on a variety of appetizers, wraps, salads and plates like our prime rib sliders and loaded nachos.

REDFIELD'S DELI

Located at Lobby Level, Seaport Tower

From deli-fresh sandwiches and gourmet soups, to ready-made salads, fresh-baked pastries, piping hot coffee and espresso beverages, Redfield's Deli has a delicious selection of on-the-go options.

ANN-MARIE'S COFFEE HOUSE

Located on the Marina behind the hotel's Harbor Tower

Ann Marie's serves a variety of lattes, blended mochas, espresso, Starbucks Coffee, specialty-crafted teas, ice cream, gelato, pastries, sandwiches and salads.

TOP OF THE HYATT

Located at 40th Floor, Harbor Tower

Floor-to-ceiling windows offer dramatic panoramic views of the city below, Coronado Island and beyond, creating the perfect setting to celebrate the sunset at our San Diego bar.

GRAND LOBBY BAR

Located at Lobby Level, Harbor Tower

Grab a gourmet burger and a brew, get a little work done or meet with friends in a setting seemingly ripped from the pages of an international-spy thriller.

Rocky Mountain

Denver, CO | July 11-16, 2016

COURSES:

SEC401 • SEC503
SEC504 • SEC511
SEC560 • SEC566
FOR408 • FOR578
MGT414 • MGT512



San Antonio

July 18-23, 2016

COURSES:

SEC301 • SEC401
SEC503 • SEC504
SEC511 • SEC550
FOR578 • MGT512



Boston

August 1-6, 2016

COURSES:

SEC401 • SEC503
SEC504 • SEC511
SEC542 • SEC575
FOR408 • FOR572
MGT512 • MGT514



Future SANS Training Events

SANS **Security Operations Center** SUMMIT & TRAINING

Crystal City, VA | May 19-26 | #SOCSummit

SANS**FIRE** 2016

Washington, DC | June 11-18 | #SANSFIRE

SANS **Digital Forensics & Incident Response** SUMMIT & TRAINING

Austin, TX | June 23-30 | #DFIRSummit

SANS **Salt Lake City** 2016

Salt Lake City, UT | June 27 - July 2 | #SANSSLIC

SANS **Rocky Mountain** 2016

Denver, CO | July 11-16 | #SANSRockyMtn

SANS **Minneapolis** 2016

Minneapolis, MN | July 18-23 | #SANSMinn

SANS **San Antonio** 2016

San Antonio, TX | July 18-23 | #SANSSanAntonio

ICS Security Training

Houston, TX | July 25-30 | #ICSHouston

SANS **San Jose** 2016

San Jose, CA | July 25-30 | #SANSSanJose

SANS **Boston** 2016

Boston, MA | August 1-6 | #SANSBoston

Security Awareness SUMMIT & TRAINING

San Francisco, CA | August 1-10 | #SecAwareSummit

SANS **Portland** 2016

Portland, OR | August 8-13 | #SANSPortland

SANS **Dallas** 2016

Dallas, TX | August 8-13 | #SANSDallas

SANS **Chicago** 2016

Chicago, IL | August 22-27 | #SANSChicago

Information on all events can be found at
sans.org/security-training/by-location/all