SANS | GIAC CERTIFICATIONS

SANS Network Security

September 22–27, 2025
Las Vegas, NV

PROGRAM GUIDE

#SANSNetworkSecurity @SANSInstitute

SANS NETWORK SECURITY 2025

Welcome Reception

Monday, September 22 | 6:30–8:00 PM
Apollo Pool (PROMENADE – GROUND LEVEL)

Kick off your week of world-class cybersecurity training at the Welcome Reception! This is your chance to connect face-to-face with fellow practitioners, industry experts, and SANS faculty in a relaxed, open-air setting. Enjoy delicious bites and a selection of beverages—adult and otherwise—as you ease into an exciting week of learning and networking.

Develop and practice real-world skills to be prepared to defend your environment.

CORE NETWARS

Thu, Sept 25 & Fri, Sept 26 | 6:30–9:30 PM
Roman I/III (PROMENADE)

DFIR NETWARS

Thu, Sept 25 & Fri, Sept 26 | 6:30–9:30 PM
Florentine I (PROMENADE)

All In-Person students who registered to attend a course at SANS Network Security 2025 are eligible to play NetWars for FREE. Space is limited. Please register for NetWars through your SANS Account Dashboard.

Extend Your Training

SANS OnDemand

Add an OnDemand Bundle to your course.

Extend Your Training Experience with an OnDemand Bundle

- Four months of supplemental online review
- 24/7 online access to your course lectures, materials, quizzes, and labs
- Subject-matter-expert support to help you increase your retention of course material

OnDemand Bundle price: $999

sans.org/ondemand/bundles

Validate Your Training

GIAC CERTIFICATIONS

Add a GIAC Certification attempt to your course.

Get Certified with GIAC Certifications

- Distinguish yourself as an information security leader
- 30+ GIAC cybersecurity certifications available
- Two practice exams included
- Four months of access to complete the attempt

GIAC Certifications Bundle price: $999

giac.org

GENERAL INFORMATION

Venue

Caesars Palace
3570 Las Vegas Blvd. South
Las Vegas, NV 89109
Phone: 1-866-227-5938

Event Check-In | Badge & Courseware Distribution

Location: Promenade Foyer (PROMENADE)

Sun, Sept 21 . . . . . 4:00–6:00 PM
Mon, Sept 22 . . . . . 7:00–8:30 AM

Registration Support

Location: Promenade Foyer (PROMENADE)

Mon, Sept 22–Tue, Sept 23 . . . . . 8:00 AM–5:30 PM

Location: Siena (PROMENADE)

Wed, Sept 24–Fri, Sept 26 . . . . . 8:00 AM–5:30 PM
Sat, Sept 27 . . . . . 8:00 AM–2:00 PM

Course Breaks

Morning Coffee . . . . . 7:00–9:00 AM
Morning Break* . . . . . 10:30–10:50 AM
Lunch (ON YOUR OWN) . . . . . 12:15–1:30 PM
Afternoon Break* . . . . . 3:00–3:20 PM

*Snack and coffee to be provided during these break times.

Photography Notice

SANS may take photos of classroom activities for marketing purposes. SANS Network Security 2025 attendees grant SANS all rights for such use without compensation, unless prohibited by law.

Parking*

Self-parking is available for $20 per day Mon–Wed and $25 per day Thu–Sun. This does not include in-and-out privileges.

Guests staying at the hotel will receive daily parking for $20 per day with in-and-out privileges.

Valet parking is $50 per day.

*Parking rates are subject to change.

Feedback Forms and Course Evaluations

SANS is committed to offering the best information security training, and that means continuous course improvement. Your student feedback is a critical input to our course development and improvement efforts. Please take a moment to complete the electronic evaluation posted in your class Slack channel each day.

Wear Your Badge

To confirm you are in the right place, SANS Work-Study participants will be checking your badge for each course and event you enter. For your convenience, please wear your badge at all times.

Bootcamp Sessions and Extended Hours

The following classes have evening bootcamp sessions or extended hours. For specific times, please refer to pages 4–6.

Bootcamps (Attendance Mandatory)

LDR414: SANS Training Program for CISSP® Certification™
SEC401: Security Essentials: Network, Endpoint, and Cloud™
SEC503: Network Monitoring and Threat Detection In-Depth™
SEC510: Cloud Security Controls and Mitigations™
SEC511: Cybersecurity Engineering: Advanced Threat Detection and Monitoring™
SEC540: Cloud Native Security and DevSecOps Automation™
SEC660: Advanced Penetration Testing, Exploit Writing, and Ethical Hacking™

Extended Hours:

ICS456: Essentials for NERC Critical Infrastructure Protection™
SEC501: Advanced Security Essentials – Enterprise Defender™
SEC504: Hacker Tools, Techniques, and Incident Handling™

COURSE SCHEDULE

Time: 9:00 AM–5:00 PM (Unless otherwise noted)
NOTE: All classes begin at 8:30 AM on Day 1 (Monday, September 22)

FOR500 Windows Forensic Analysis™ (6-DAY COURSE)
Heather Barnhart . . . . . Florentine II (PROMENADE)

FOR508 Advanced Incident Response, Threat Hunting and Digital Forensics™ (6-DAY COURSE)
Eric Zimmerman . . . . . Florentine I (PROMENADE)

FOR509 Enterprise Cloud Forensics & Incident Response™ (6-DAY COURSE)
Terrence Williams . . . . . Milano IV (PROMENADE)

FOR572 Advanced Network Forensics: Threat Hunting, Analysis, and Incident™ (6-DAY COURSE)
Philip Hagen. . . . . Florentine IV (PROMENADE)

FOR577 Linux Incident Response and Threat Hunting™ (6-DAY COURSE)
Tarot Wake . . . . . Milano II (PROMENADE)

FOR578 Cyber Threat Intelligence™ (6-DAY COURSE)
Peter Szczepankiewicz . . . . . Milano III (PROMENADE)

FOR585 Smartphone Forensic Analysis In-Depth™ (6-DAY COURSE)
Dominica Crognale . . . . . Florentine III (PROMENADE)

FOR608 Enterprise-Class Incident Response & Threat Hunting™ (6-DAY COURSE)
Mike Pilkington . . . . . Livorno (PROMENADE)

FOR610 Reverse-Engineering Malware: Malware Analysis Tools and Techniques™ (6-DAY COURSE)
Michael Murr . . . . . Milano I (PROMENADE)

ICS410 ICS/SCADA Security Essentials™ (6-DAY COURSE)
Stephen Mathezer . . . . . Octavius 6 (PROMENADE SOUTH)

ICS456 Essentials for NERC Critical Infrastructure Protection™ (5-DAY COURSE)
Jason Christopher. . . . . Octavius 16 (PROMENADE SOUTH)
Hours: 8:30 AM–6:30 PM (Day 1)

ICS612 ICS Cybersecurity In-Depth™ (5-DAY COURSE)
Jason Dely . . . . . Pisa (PROMENADE)

LDR414 SANS Training Program for CISSP® Certification™ (6-DAY COURSE)
David R. Miller . . . . . Neopolitan II (PROMENADE)
Hours: 8:30 AM–7:00 PM (Day 1); 8:00 AM–7:00 PM (Days 2–5); 8:00 AM–5:00 PM (Day 6)

LDR512 Security Leadership Essentials for Managers™ (5-DAY COURSE)
My-Ngoc Nguyen. . . . . Octavius 11 (PROMENADE SOUTH)

LDR514 Security Strategic Planning, Policy, and Leadership™ (5-DAY COURSE)
Mark Williams . . . . . Octavius 3 (PROMENADE SOUTH)

LDR516 Building and Leading Vulnerability Management Programs™ (5-DAY COURSE)
Jonathan Risto. . . . . Octavius 8 (PROMENADE SOUTH)

LDR519 Cybersecurity Risk Management and Compliance™ (5-DAY COURSE)
James Tarala. . . . . Octavius 5 (PROMENADE SOUTH)

LDR520 Cloud Security for Leaders™ (5-DAY COURSE)
Jason Lam. . . . . Octavius 2 (PROMENADE SOUTH)

LDR551 Building and Leading Security Operations Centers™ (5-DAY COURSE)
John Hubbard. . . . . Octavius 7 (PROMENADE SOUTH)

LDR553 Cyber Incident Management™ (5-DAY COURSE)
Matt Bromiley . . . . . Octavius 17 (PROMENADE SOUTH)

SEC301 Introduction to Cyber Security™ (5-DAY COURSE)
Rich Greene . . . . . Octavius 9 (PROMENADE SOUTH)

COURSE SCHEDULE

SEC401 Security Essentials: Network, Endpoint and Cloud™ (6-DAY COURSE)
Bryan Simon . . . . . Neopolitan I (PROMENADE)
Hours: 8:30 AM–7:00 PM (Day 1); 9:00 AM–7:00 PM (Days 2–5)

SEC497 Practical Open-Source Intelligence (OSINT)™ (6-DAY COURSE)
Jeff Lomas . . . . . Sorrento (PROMENADE)

SEC501 Advanced Security Essentials – Enterprise Defender™ (6-DAY COURSE)
Dave Shackleford . . . . . Salerno (PROMENADE)
Hours: 8:30 AM–7:00 PM (Day 1)

SEC502 Cloud Security Tactical Defense™ (5-DAY COURSE)
Ryan Nicholson . . . . . Octavius 10 (PROMENADE SOUTH)

SEC503 Network Monitoring and Threat Detection In-Depth™ (6-DAY COURSE)
Andrew Laman . . . . . Messina (PROMENADE)
Hours: 8:30 AM–7:00 PM (Day 1); 9:00 AM–7:00 PM (Days 2–5)

SEC504 Hacker Tools, Techniques & Incident Handling™ (6-DAY COURSE)
James Leyte-Vidal . . . . . Roman I/III (PROMENADE)
Hours: 8:30 AM–7:15 PM (Day 1)

SEC510 Cloud Security Controls and Mitigations™ (5-DAY COURSE)
Brandon Evans . . . . . Octavius 18 (PROMENADE SOUTH)
Hours: 8:30 AM–7:00 PM (Day 1); 9:00 AM–7:00 PM (Days 2–4)

SEC511 Cybersecurity Engineering: Advanced Threat Detection and Monitoring™ (6-DAY COURSE)
Seth Misenar . . . . . Neopolitan III (PROMENADE)
Hours: 8:30 AM–7:00 PM (Day 1); 9:00 AM–7:00 PM (Days 2–5)

SEC522 Application Security: Securing Web Applications, APIs, and Microservices™ (6-DAY COURSE)
Dr. Johannes Ullrich . . . . . Milano VIII (PROMENADE)

SEC540 Cloud Native Security and DevSecOps Automation™ (5-DAY COURSE)
Jon Zeolla & Dakota Riley . . . . . Octavius 19 (PROMENADE SOUTH)
Hours: 8:30 AM–7:00 PM (Day 1); 9:00 AM–7:00 PM (Days 2–4)

SEC541 Cloud Security Threat Detection™ (5-DAY COURSE)
Shaun McCullough . . . . . Octavius 13 (PROMENADE SOUTH)

SEC542 Web App Penetration Testing and Ethical Hacking™ (6-DAY COURSE)
Timothy McKenzie . . . . . Milano VII (PROMENADE)

SEC549 Cloud Security Architecture™ (5-DAY COURSE)
Simon Vernon . . . . . Octavius 14 (PROMENADE SOUTH)

SEC560 Enterprise Penetration Testing™ (6-DAY COURSE)
Jeff McJunkin . . . . . Roman II (PROMENADE)

SEC565 Red Team Operations and Adversary Emulation™ (6-DAY COURSE)
David Mayer . . . . . Capri (PROMENADE)

SEC566 Implementing and Auditing CIS Controls™ (5-DAY COURSE)
Randy Marchany . . . . . Octavius 15 (PROMENADE SOUTH)

SEC587 Advanced Open-Source Intelligence (OSINT) Gathering and Analysis™ (6-DAY COURSE)
Matt Edmondson . . . . . Milano V (PROMENADE)

SEC588 Cloud Penetration Testing™ (6-DAY COURSE)
Moses Frost . . . . . Milano VI (PROMENADE)

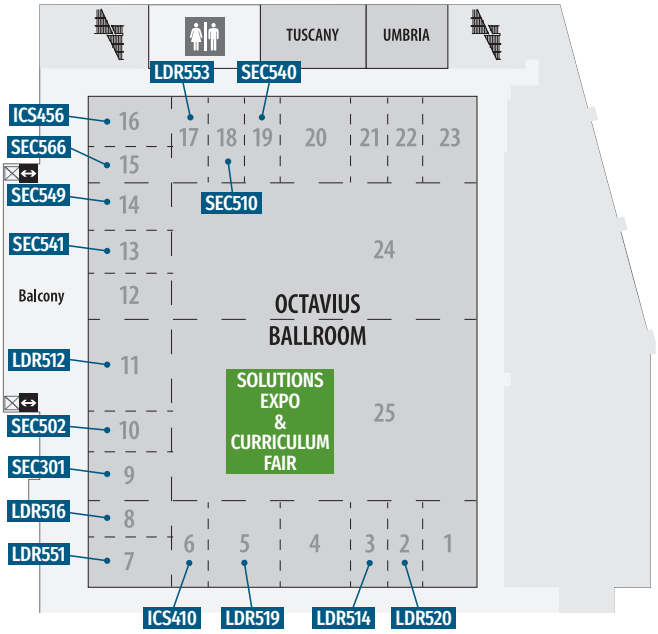
SEC595 Applied Data Science and AI/Machine Learning for Cybersecurity Professionals™ (6-DAY COURSE)
David Hoelzer . . . . . Roman IV (PROMENADE)

SEC617 Wireless Penetration Testing and Ethical Hacking™ (6-DAY COURSE)
Larry Pesce . . . . . Palermo (PROMENADE)

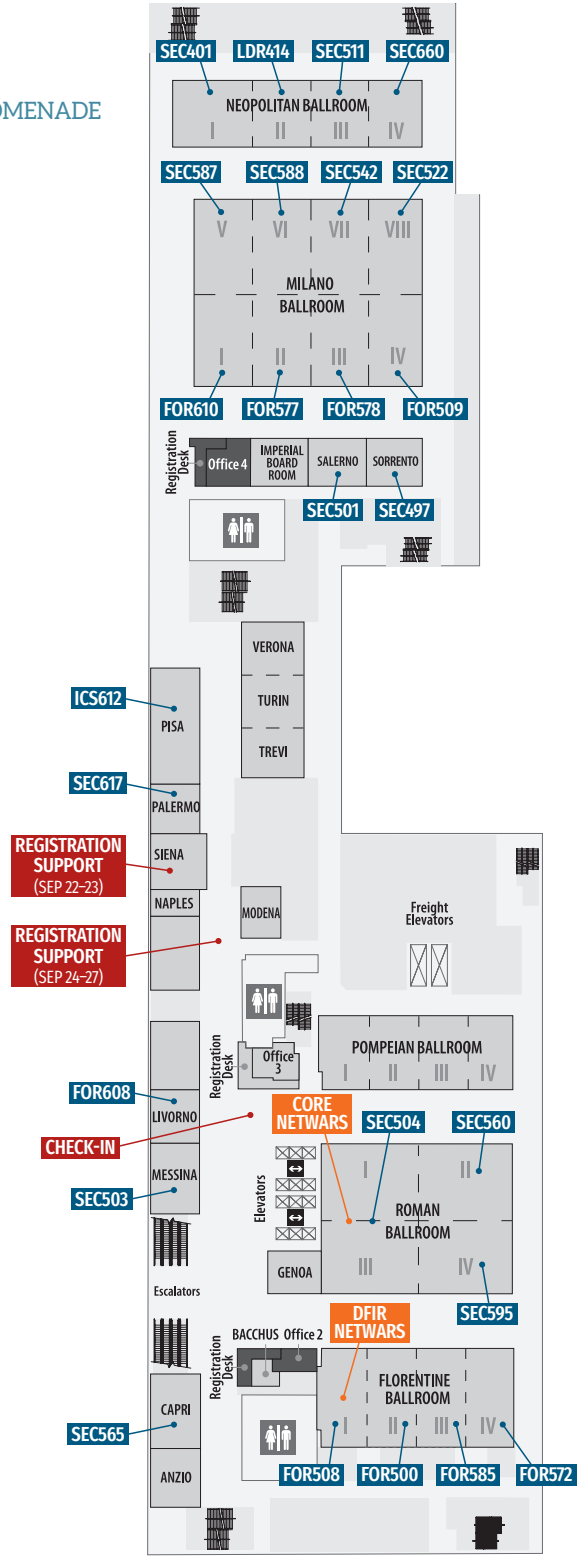
SEC660 Advanced Penetration Testing, Exploit Writing, and Ethical Hacking™ (6-DAY COURSE)
Stephen Sims . . . . . Neopolitan IV (PROMENADE)
Hours: 8:30 AM–7:00 PM (Day 1); 9:00 AM–7:00 PM (Days 2–5)

HOTEL FLOOR PLAN

PROMENADE SOUTH



PROMENADE



BONUS SESSIONS

Enrich Your SANS Experience!

Talks 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 network and computer security.

RECEPTION

SANS Network Security 2025 Welcome Reception

DATE/TIME: **Monday, September 22 | 6:30–8:00 PM**
LOCATION: **Apollo Pool** (PROMENADE – GROUND LEVEL)

Kick off your week of world-class cybersecurity training at the Welcome Reception! This is your chance to connect face-to-face with fellow practitioners, industry experts, and SANS Faculty in a relaxed, open-air setting. Enjoy delicious bites and a selection of beverages—adult and otherwise—as you ease into an exciting week of learning and networking.

LUNCH & LEARN

Cybersecurity Without the Chaos: A Step-by-Step Roadmap

DATE/TIME: **Tuesday, September 23 | 12:30–1:15 PM**
LOCATION: **Roman II** (PROMENADE)
SPEAKER: **James Tarala, SANS Senior Instructor**
Space is Limited – Advanced Registration Required On-Site

Balancing the scales between safeguarding information assets and enabling business growth demands not just technical acumen but a strategic mindset. This presentation is tailored to demystify the complexities of cybersecurity risk management, offering actionable insights and practical strategies for CISOs and cybersecurity leaders.

LUNCH & LEARN

Lookout Lunch & Learn

DATE/TIME: **Tuesday, September 23 | 12:30–1:15 PM**
LOCATION: **Roman IV** (PROMENADE)
Space is Limited – Advanced Registration Required On-Site

RECEPTION

Cyber Connections: Pre-Keynote Networking Reception

DATE/TIME: **Tuesday, September 23 | 5:30–6:30 PM**
LOCATION: **Pompeian Foyer** (PROMENADE)

FEATURED KEYNOTE

Vulnerability Chaining:

An Exploration into Mapping Vulnerabilities for Effective Vulnerability Management

DATE: **Tue, Sept 23**
TIME: **6:30–7:30 PM**
LOCATION: **Pompeian I & II** (PROMENADE)

SPEAKER: **Nikki Robinson, DSc, PhD**

Vulnerability chaining is the combination of low and medium vulnerabilities to create critical attacks. Due to the massive backlog and sheer volume of vulnerabilities that exist today, it is difficult to remediate every vulnerability across an organization. Come learn about vulnerability chaining identification and remediation to create a holistic and effective vulnerability management program.

BONUS SESSIONS

SPONSORED EVENTS

Solutions Expo + Curriculum Fair

Mark Your Calendars, Cyber Warriors!

Don't miss this exclusive opportunity to dive into the cutting edge of cybersecurity training and technology. The Solutions Expo + Curriculum Fair is your front-row seat to new course previews, hands-on demos, expert interviews, and one-on-one time with SANS Faculty. Whether you're looking to level up your skills or explore the latest innovations, this immersive experience is not to be missed—available for one day only!

We're talking:

- Swag giveaways you'll want to show off
- Exclusive discounts that go fast
- Poster signings with your favorite SANS legends
- Surprise activations you'll have to see to believe
- And unforgettable career-shaping insights straight from the sources!

Light bites and beverages provided—all students welcome

Solutions Expo + Curriculum Fair Schedule:

DATE: **Wednesday, September 24**
LOCATION: **Octavius 25** (PROMENADE SOUTH)

Breakfast: 7:30–9:00 AM (BREAKFAST IS PROVIDED)

Lunch: 12:15–1:30 PM (LUNCH IS PROVIDED)

AlumNight Reception: Welcome to the SANS Community

DATE/TIME: **Wednesday, September 24 | 5:30–6:30 PM**
LOCATION: **Octavius 25** (PROMENADE SOUTH)

Whether you're new to SANS or a seasoned alum, you're invited to celebrate the vibrant community that makes SANS training exceptional. Join us for AlumNight, an evening of networking, connection, and camaraderie with fellow in-person students and cybersecurity professionals. Light bites and refreshing beverages will be provided—raise a glass and toast to your cyber journey, past, present, and future.

ALUMNIGHT WORKSHOP
POWERED BY DFIR:

From Smartphones to Intelligent Phones: How Mobile Devices are Constantly Changing in the Wake of AI

DATE/TIME: **Wednesday, September 24 | 6:45–7:45 PM**
LOCATION: **Milano V** (PROMENADE)

Our smartphones have been utilizing machine learning for years to make the everyday tasks we take for granted easier and more efficient. As we continue to see advancements in photo editing, virtual assistance, language translation, and improved search capabilities, we will be forced to investigate artifacts that often blur the lines when it comes to attribution.

This workshop will break down some of the common ways smartphones are utilizing machine learning and dig into the artifacts to make sense of just how that data was generated. We will touch upon how our current tools have adapted to utilize machine-learning capabilities to expedite certain tasks over time and explore using the machine-learning capabilities native to our devices to assist with forensic analysis.

LUNCH & LEARN

AI Tooling for Security Professionals

DATE/TIME: **Thursday, September 25 | 12:30–1:15 PM**
LOCATION: **Roman II** (PROMENADE)
SPEAKER: **Jon Zeolla, Certified Instructor**
Space is Limited – Advanced Registration Required On-Site

How can we use AI tools to get more work done, as security professionals?

Join me as we demonstrate some of the killer productivity features of AI tools, specific to security professionals. We'll use AI tools and MCP servers to:

- Use cloud-native techniques like Policy as Code to act as AI guardrails, ensuring they can only do what we want them to do
- Augment threat modeling by asking and answering questions, identifying potential attack vectors and brainstorming mitigations
- Review code for security vulnerabilities or unwanted design patterns, and suggest alternatives
- Build project plans and then automatically execute on them
- Write code faster than ever, while still following our security requirements
- Triage and prioritize ever-growing lists of tasks
- ...and more

BONUS SESSIONS

SPECIAL EVENT

Microsoft Fireside Chat: AI: Where is AI Good and Bad for Security and Defense?

DATE/TIME: **Thursday, September 25 | 5:30–6:30 PM**
LOCATION: **Pompeian I & II** (PROMENADE)
SPEAKERS: **Simon Vernon, SANS Certified Instructor**
Kelly Bissell, Microsoft CVP

AI is reshaping security — but is it our greatest ally or most dangerous adversary? Join SANS Instructor Simon Vernon and Microsoft CVP Kelly Bissell for a fireside chat exploring both sides: AI's power to drive fraud detection and defense, and its risks of bias, privacy loss, and adversarial misuse. This open discussion promises candid insights, practical takeaways, and a glimpse into the future of cybersecurity you won't want to miss.

CYBER RANGES

Core NetWars Tournament

DATE/TIME: **Thu, Sept 25 & Fri, Sept 26 | 6:30–9:30 PM**
LOCATION: **Roman I/III** (PROMENADE)

Core NetWars is the most comprehensive of the NetWars ranges, this ultimate multi-disciplinary cyber range powers up the most diverse cyber skills. This range is ideal for advancing your cybersecurity prowess in today's dynamic threat landscape. The winning team and the top five solo players from every NetWars tournament throughout the year are offered a chance to compete in the annual SANS NetWars Tournament of Champions.

CYBER RANGES

DFIR NetWars Tournament

DATE/TIME: **Thu, Sept 25 & Fri, Sept 26 | 6:30–9:30 PM**
LOCATION: **Florentine I** (PROMENADE)

DFIR NetWars is focused on digital forensics, incident response, threat hunting, and malware analysis, this tool-agnostic approach covers everything from low-level artifacts to high-level behavioral observations.

Free Resources

Newsletters

NewsBites
Twice-weekly, high-level executive summaries of the most important news relevant to cybersecurity professionals.

OUCH!
The world's leading monthly free security awareness newsletter designed for the common computer user.

@RISK: The Consensus Security Alert
A reliable weekly summary of newly discovered attack vectors, vulnerabilities with active new exploits, how recent attacks worked, and other valuable data.

Virtual Events, Research & Webcasts

Analyst Program: Research & Content
Reports on emerging and mission-critical topics. Solution providers drive topic awareness to a qualified audience of decision-makers and influencers through insightful educational content and help security teams tackle today's threats.

Ask The Expert Webcasts
SANS Experts bring current and timely information on relevant topics in IT security. These are the go-to online format to obtain actionable information to help you in your security goals.

Solutions Forums & Summit Tracks
In partnership with a SANS subject-matter expert, invited speakers showcase their products and solutions to high-level security practitioners and cybersecurity decision-makers.

Many Other Free Resources
(SANS.org account not required)

- InfoSec Reading Room
- Top 25 Software Errors
- 20 Critical Controls
- Security Policies
- Intrusion Detection FAQs
- Tip of the Day
- Security Posters
- 20 Coolest Careers
- Security Glossary
- SCORE (Security Consensus Operational Readiness Evaluation)

Sign into your SANS account to enjoy these **free** resources at **www.sans.org/account**

SAVE $500 WHEN YOU REGISTER BY **SEPT 13**

SANS

Cyber Defense Initiative®

December 12–17, 2025
Washington, DC or Live Online (ET)

Gain the Edge
Fast-Track Your Cybersecurity Skills

- 42 Cybersecurity training courses
- 33 GIAC certifications
- 1:1 Access to industry luminaries
- Hands-on labs
- Immersive workshops
- Core NetWars tournament
- Buzzing SANS@Night talks

Explore SANS Cyber Defense Initiative® 2025

FEATURED KEYNOTE

Cybersecurity Insights:

An Interactive Fireside Chat with US Department of State's Gharun Lacy

SPEAKER: **Gharun S. Lacy,** Deputy Assistant Secretary at Directorate of Cyber and Technology Security

As a known hub for the direction of geopolitics, sanctions, and trade, the Department of State is an attractive target for advanced nation-state threat actors motivated more by a desire for information than by greed, and as public-facing representatives of the U.S. overseas, diplomat staff and buildings don't have the benefit of anonymity.

Deputy Assistant Secretary Gharun Lacy will share Diplomatic Security's cybersecurity strategies for navigating the evolving cyber threat landscape and leveraging emerging technologies as a uniquely positioned law enforcement entity in the U.S. government's most global agency.

SAVE THE DATE

SANS Network Security 2026
is returning to Caesars Palace
in Las Vegas **September 21–26, 2026**

Upcoming SANS Training Events

DC Metro Fall	Rockville, MD	Hybrid	Sep 29–Oct 4
San Diego Fall	San Diego, CA	Hybrid	Oct 20–25
Orlando Fall	Orlando, FL	Hybrid	Oct 27–Nov 1
Stay Sharp: Nov		Virtual (ET)	Nov 12–14
DFIRCON Miami	Coral Gables, FL	Hybrid	Nov 16–22
San Francisco Fall	San Francisco, CA	Hybrid	Nov 17–22
Dallas	Dallas, TX	Hybrid	Dec 1–6
Cyber Defense Initiative®	Washington, DC	Hybrid	Dec 12–17
Nashville Winter	Nashville, TN	Hybrid	Jan 12–17
Rockville	Rockville, MD	Hybrid	Feb 2–7
SANS Surge	La Jolla, CA	Hybrid	Feb 23–28
DC Metro March	Arlington, VA	Hybrid	Mar 2–7
SANS 2026	Orlando, FL	Hybrid	Mar 29–Apr 3
Rocky Mountain	Denver, CO	Hybrid	April 20–25
Security Central	New Orleans, LA	Hybrid	May 11–16
Security West	San Diego, CA	Hybrid	May 11–16
DC Metro June	Arlington, VA	Hybrid	Jun 1–6
Chicago	Chicago, IL	Hybrid	Jun 8–13
Austin	Austin, TX	Hybrid	Jun 22–27
SANSFIRE	Washington, DC	Hybrid	Jul 13–18
Nashville Summer	Nashville, TN	Hybrid	Jul 27–Aug 1
New York	New York, NY	Hybrid	Aug 10–15
Virginia Beach	Virginia Beach, VA	Hybrid	Aug 24–Sep 4
Network Security	Las Vegas, NV	Hybrid	Sep 21–26
Cyber Defense Initiative®	Washington, DC	Hybrid	Dec 14–19