
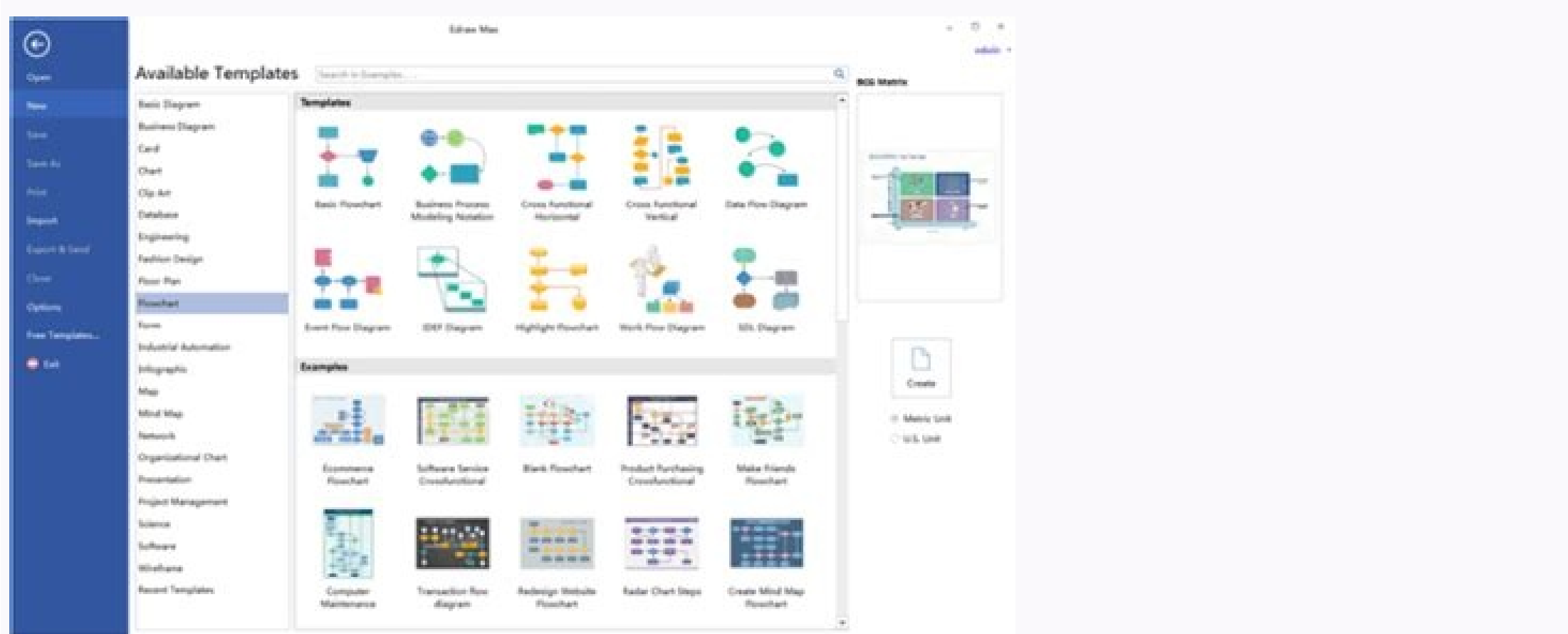
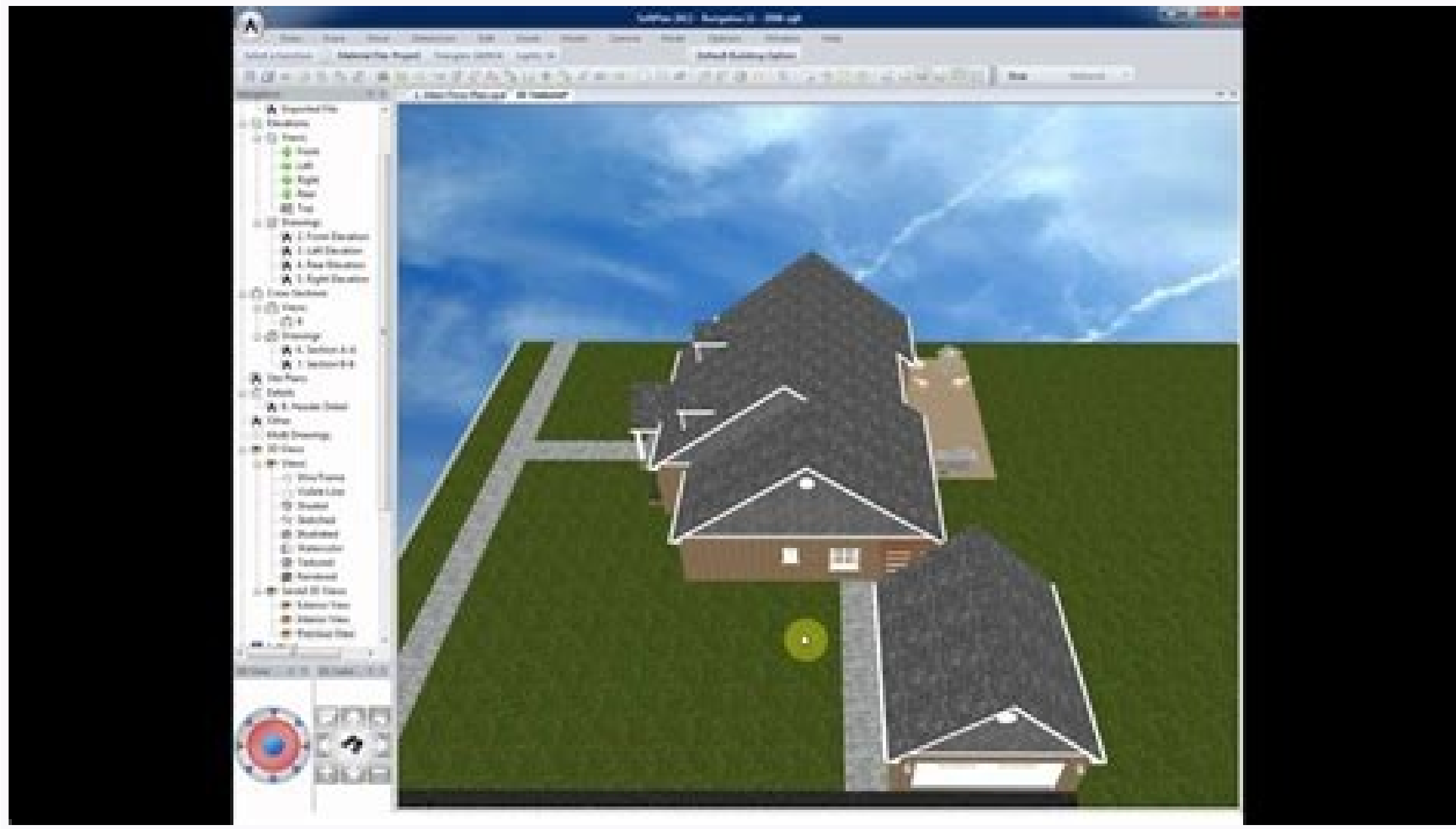
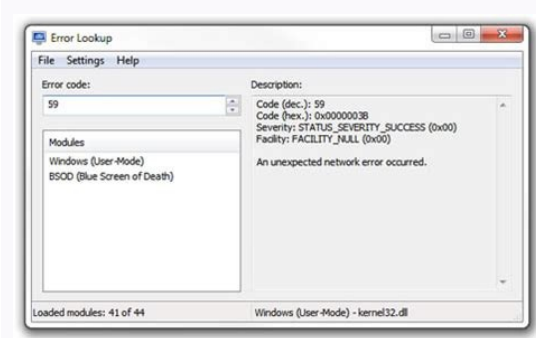
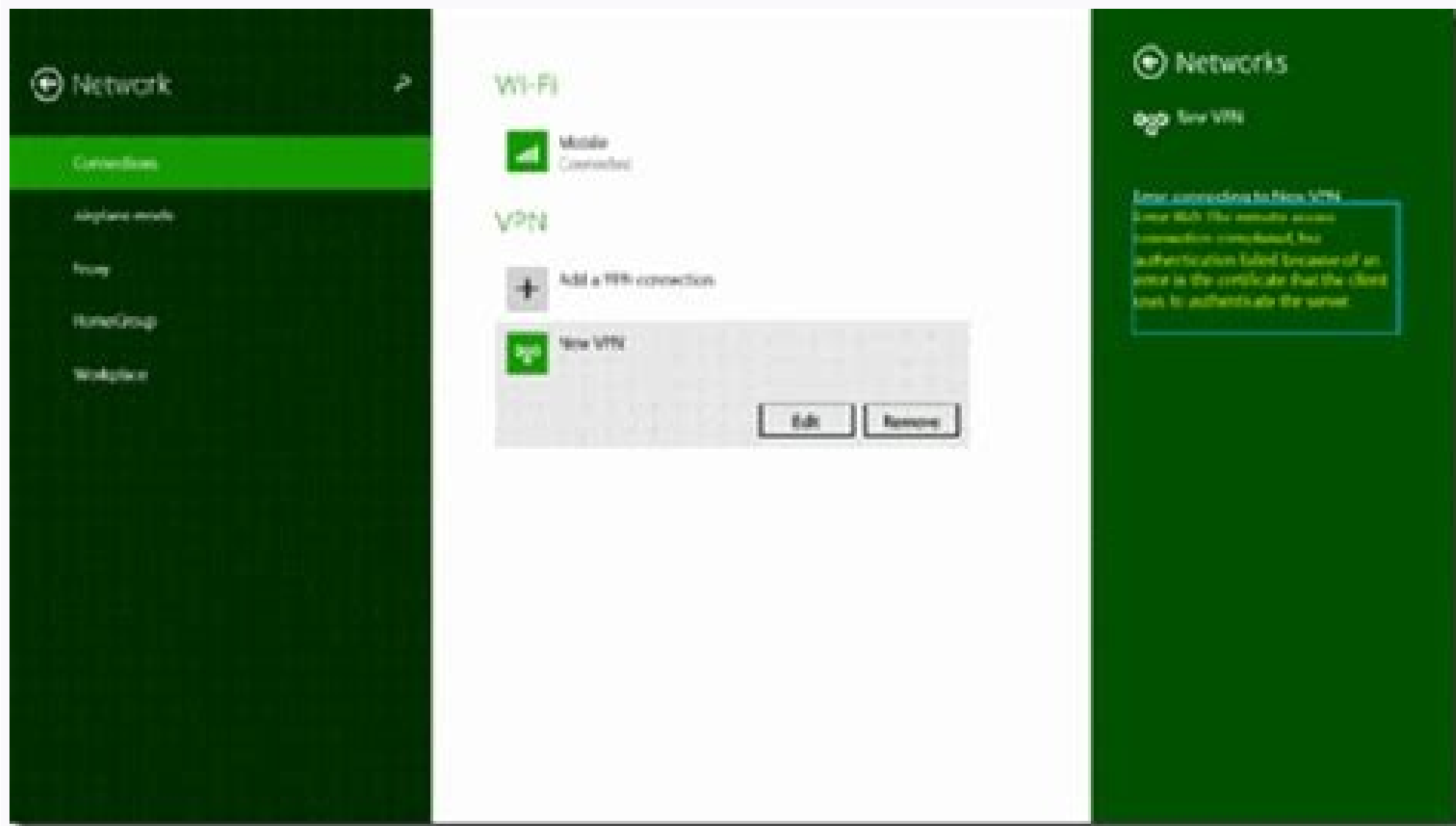


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Whether the attacks are Windows-focused or involve attacking critical database platforms or exploiting cloud vulnerabilities, you'll be prepared to effectively identify the attack, minimize the impact, and respond efficiently. Keep up the great work Josh!

- Jen F., US Federal Agency Registrar for SEC504 Training events and topical summits feature presentations and courses in classrooms around the world. Home > Courses > SEC504: Hacker Tools, Techniques, and Incident Handling: The goal of modern cloud and on-premises systems is to prevent compromise, but the reality is that detection and response are critical. If you do not own a licensed copy of VMware Workstation or Fusion, you can download a free 30-day trial copy from VMware. You will apply all of the skills you've learned in class, using the same techniques used by attackers to compromise modern, sophisticated network environments. After delivering the attacks, you'll investigate the logging data and evidence that remains to recognize these attacks as they happen. Exercises: Open-Source Intelligence with SpiderFoot; Domain Name System (DNS) Reconnaissance and Enumeration; Host Discovery and Assessment with Nmap; Shadow Cloud Asset Discovery with Masscan; Windows Server Message Block (SMB) Session Attacks; Windows Password Spray Attack; Detection Topics; MITRE ATT&CK Framework Introduction; Using ATTK&CK to guide an incident response investigation; Staying current with changing attack techniques; Leveraging ATTK&CK for threat intelligence; Open-Source Intelligence; Enumerating targets without being detected; Host identification through domain and public certificate authority data; User account compromise assessment; Automating open-source intelligence collection with SpiderFoot; DNS Interrogation; Mining public DNS servers for organization data; Automating host enumeration with dns-brute; DNS server log inspection for attack identification; Creative host identification using manual and automated tools; Website Reconnaissance; Information-gathering from public websites; Parsing Exchange Image File Format (EXIF) data from public documents; Optimizing search engine reconnaissance; Interrogating; Abstracting attack identification using public sources; Limiting website-sensitive data disclosure; Network and Host Scanning with Nmap; Host enumeration and discovery with Nmap; Internal and external network mapping and visualization; Minimizing network activity to avoid detection; Deep host assessment with Nmap; Scripting Engine tools; Cloud Spotlight: Cloud Scanning; Enumerating shadow cloud targets; Accelerating scans with Masscan; Walkthrough: Scanning Amazon Web Services for target discovery; Attributing cloud hosts to a target organization; Visual representation of identified targets with EyeWitness; Server Message Block (SMB) Sessions; Understanding Windows SMB: Essential skill development; Identifying SMB attacks against Windows; Using built-in tools for SMB password guessing attacks; Enumerating Windows domains using SharpView and BloodHound; Understanding SMB security features; Defense Spotlight: DeepBlue; Identifying attacks using Windows Event Logs; Differentiating attacks from false positives; Remote host assessment for compromise identification; Tips for fast assessment to begin incident analysis; SEC504.3: Password and Access Attacks; Password attacks are the most reliable mechanism for attackers to bypass defenses and gain access to your organization's assets. THIS IS CRITICAL. Other virtualization products, such as Hyper-V and VirtualBox, are not supported and will not work with the course material. Your course media will now be delivered via download. Additionally, certain classes are using an electronic workbook in addition to the PDFs. The number of classes using eBooks will grow quickly. Your RAM information will be toward the bottom of the page. This is absolutely required. RAM 16 GB RAM is highly recommended for the best experience. If your BIOS is password-protected, you must have the password. Learn more. You will need your course media immediately on the first day of class. You'll see how attackers bypass endpoint protection systems and use an initial foothold to gain access to internal network targets. With your knowledge of hacker tools and techniques, and by using defense skills that dramatically improve security, you will be ready to become the subject-matter expert your organization needs to meet today's cyber threats. "Joshua Wright" Our instructor Josh was incredible! Engaging, enthusiastic, extremely knowledgeable (especially in VM, WOW). Choose the version compatible with your host OS. Your processor information will be listed near the bottom of the page. With an integrated hint system to give you the on-demand guidance you need to succeed, the event guides you through the steps to successfully compromise target systems, bypass endpoint protection platforms, pivot to internal network high-value hosts, and exfiltrate company data. Topics: Target Discovery and Enumeration; Applying Open-Source Intelligence and Reconnaissance; Information-Gathering; Public-Facing Asset Compromise; Event Log; Attacking Windows Active Directory; Password Spray, Guessing, and Credential Stuffing; Attacks: Post-Exploitation; Pivoting and Lateral Movement; Choosing, Configuring, and Delivering; Exploits; Internal Attacker Compromise Attribution; The GIAC Incident Handler certification validates a practitioner's ability to detect, respond, and resolve computer security incidents using a wide range of essential security skills. In this new environment, we have found that a second monitor and/or a tablet device can be useful by keeping the class materials visible while the instructor is presenting or while you are working on lab exercises. You'll then apply the techniques you learn with privileged insider Local Area Network (LAN) attacks, using privileged access to establish persistence, how attackers scan for and collect data from a compromised organization. In the hands-on environment provided by SEC504, you'll use the tools of the attackers themselves in order to understand how they are applied and the artifacts the attackers leave behind. VMware Workstation Player is a free download that does not need a commercial license but has fewer features than Workstation. To verify on a Mac, click the Apple logo at the top left-hand corner of your display and then click "About this Mac". Hard Drive Free Space 100 GB of FREE space on the hard drive is critical to host the VMs and additional files we distribute. Learn more. Study and prepare for GIAC Certification with four months of online access. Incident Handling and Computer Crime Investigation; Computer and Network Hacker; Exploits; Hacker Tools (Nmap, Nessus, Metasploit and Netcat) More Certification Details Important! Bring your own system configured according to these instructions! A properly configured system is required to fully participate in this course. By getting into the mindset of attackers, you will learn how they apply their trade against your organization, and you'll be able to use that insight to anticipate their moves and build better defenses. In SEC504, you'll learn: How to apply a dynamic approach to incident response; How to identify threats using host, network, and log analysis; Best practices for effective cloud incident response; Cyber investigation processes using live analysis, network insight, and memory forensics; Defense spotlight strategies to protect critical assets; Attacker techniques to evade endpoint detection tools; How attackers exploit complex cloud vulnerabilities; Attacker steps for internal discovery and lateral movement; The most effective attacks to bypass system access controls; The crafty techniques attackers use, and how to stop them; SANS Video SEC504.1: Incident Response and Cyber Investigations The first section of SEC504 focuses on how to detect and build an incident response process in your organization by applying the Dynamic Approach to Incident Response (DAIR) to effectively verify, scope, contain, assess, and remediate threats. If you have additional questions about the laptop specifications, please contact laptop_prep@sans.org. Internet connections and VPNs are essential for this course. The course is designed to be completed over a period of 2-3 weeks. This course section will investigate the complex attacks that exploit password and multi-factor authentication weaknesses using the access gained to access other network targets. Exercises: Password Guessing Attacks with Hydra; Password Cracking with John the Ripper; Password Cracking with Hashcat; Domain Password Audit Tool; Cloud Bucket Discovery; The Many Uses of Netcat; Topics: Password Attacks; Password crack trifecta: Guessing, spray, and credential stuffing; Techniques for bypassing password attack defenses; Understanding real-world authentication attacks; Understanding Password Hashes; Weaknesses in Windows password hash formats; Collecting password hashes in Windows, Linux, and cloud targets; Mitigating GPU-based password cracking with script and Argon2; Password Cracking; Recovering passwords from hashes with John the Ripper and Hashcat; Accelerating password cracking with GPUs and cloud assets; Effective cracking with password policy masks; Multi-factor authentication and password cracking implications; Defense Spotlight: Domain Password Audit Tool (DPAT); Password cracking as a defense opportunity with the DPAT; Collecting Windows domain hashes for security analysis; Identifying systemic vulnerabilities in password selection; Faulty reporting on password selection; Cloud Spotlight: Insecure Storage; Case study: Cloud bucket storage exposure; Understanding cloud storage for Amazon Web Services, Azure, and Google Compute; Discovering insecure bucket storage; Walkthrough: Insecure storage to website persistence compromise; Identifying insecure cloud storage access; Multi-purpose Netcat; Internal data transfer to evade monitoring controls; Pivoting and lateral movement; Listener and reverse TCP backdoors on Linux and Windows; Detailed look at attacker post-compromise techniques; SEC504.4: Public-Facing and Drive-By Attacks In this course section we'll begin our look at target exploitation frameworks that take advantage of weaknesses on public servers and client-side vulnerabilities. Therefore, it is not possible to give an estimate of the length of time it will take to download your materials. Includes labs and exercises, and support. CPU: 64-bit Intel i5 or i7 2.0 GHz processor or higher. VMware will send you a time-limited serial number if you register for the trial at their Web site. You need to allow plenty of time for the download to complete. You must be able to access your system's BIOS to enable this setting in order to complete lab exercises. His enthusiasm is contagious and really motivating to the material. Using indicators of compromise, you will practice the steps to effectively respond to breaches affecting Windows, Linux, and cloud platforms. You will apply these skills to assess the security risks of a vulnerable cloud deployment through visualization and automated assessment techniques. The media files for class can be large, some in the 40 - 50 GB range. SSD drives are also highly recommended, as they allow virtual machines to run much faster than mechanical hard drives. Operating System/Your system must be running either the latest version of Windows 10, macOS 10.15.x or later, or Linux that also can install and run VMware virtualization products described below. Additional Software Requirements: VMware Player/Install VMware Workstation Player 16, VMware Fusion 12, or VMware Workstation 16/Install VMware Player 16, VMware Fusion 12, or VMware Workstation 16. Using the implicit trust of a public website, you'll apply attacker tools and techniques to exploit browser vulnerabilities, execute code with Microsoft Office documents, and exploit the many vulnerabilities associated with vulnerable web applications. Exercises: Metasploit Attack and Analysis; Client-side Exploitation with the Browser Exploitation Framework (BeEF); Windows System Resource Usage Database Analysis; Command Injection; Attack: Cross-Site Scripting; Attack: SQL Injection; Attack: Server Side Request Forgery (SSRF) and Instance Metadata Service (IMDS); Attack: Topics: Metasploit Framework; Exercise: Metasploit to identify, configure, and deliver exploits; Selecting payloads that grant access while evading defenses; Establishing and using Command & Control (C2) victim access; Identifying Metasploit and Meterpreter fingerprints for incident response; Drive-By Attacks: Phishing and malicious Microsoft Office files; Leveraging a watering hole to attack victim browsers; Case study: Control system attack through watering hole forum compromise; Building case study payloads for effective attacks; Customizing exploits for defense bypass; Defense Spotlight: System Resource Usage Monitor; Leveraging Windows diagnostics for incident response; Assessing incident network activity using built-in Windows data; Case study: Data theft and terminated employee workstation analysis; Command injection; Compromising websites with command injection; Walkthrough: Falsifying user accounts; Customizing command injection in non-website targets; Attack access enumeration through command injection; Auditing web applications for command injection; flaws; Cross-Site Scripting (XSS); Exploiting victim browsers through server flaws; Classifying XSS types for opportunistic or target attacks; Cookie theft, password harvesting, and camera/microphone capture attacks; Using content security policies (CSP) to stop XSSSQL Injection; Understanding SQL constructs and developer errors; Extracting data through SQL injection; Using Sqmap to automate vulnerability discovery; SQL injection against cloud databases: Relational Database Service (RDS), Spanner, Azure SQL; Cloud Spotlight: IMDS and IMDS Attacks; Identifying server-side request forgery vulnerabilities; Understanding common requests vs. It is also strongly advised that you do not bring a system storing any sensitive data. To verify on a Mac, click the Apple logo at the top left-hand corner of your display and then click "About this Mac". BIOS Enabled "Intel-VT"/Intel's VT (VT-x) hardware virtualization technology must be enabled in your system's BIOS or UEFI settings. We'll apply this process in-depth with hands-on labs and examples from real-world compromises. Exercises: Live Windows examination; Network investigation; Memory investigation; Malware investigation; Cloud investigation; Topics: Incident Response; Case study: Argon Corporation compromise; Dynamic Approach to Incident Response; Investigative analysis: Examining incident evidence; Digital Investigations; Techniques for digital investigation; Establishing an incident timeline; Investigation efficiency: Data reduction; Live Examination; Identifying suspicious Windows processes; Correlating network and persistence activity; Enumerating Windows auto-start extensibility points; Leveraging Systeminfo for live Windows examinations; Network Investigations; Identifying compromised host beaconing with proxy server logs; Filtering network activity to identify indicators of compromise; Assessing encrypted network traffic with multiple data sources; Building the incident timeline; Memory investigations; Collecting volatile memory from a compromised host; Conducting offline analysis of attacker persistence; Using Volatility to inspect attacker malware; Malware Investigations; Assessing attacker malware in a custom test environment; Using snaphat and continuous recording tools; Inspecting malware actions with RegShot and Procmon; Identifying malicious code on Windows; Cloud Investigations; Steps for conducting a cloud security incident investigation; Essential cloud logging assets for incident response; Data collection and isolation for compromise assessment; Applying cloud recovery and remediation following an incident; Complete cloud compromise incident response walkthrough; Bootcamp: Linux Olympics; Building command line skills at your own pace; Working with Linux file systems and permissions; Using JO to parse and filter JSON data; Using file parsing tools, including grep, cut, and awk; Linux compromise incident response walkthrough; SEC504.2: Recon, Scanning, and Enumeration Attacks In this course section we'll look at the techniques attackers use to conduct reconnaissance as a pre-attack step, including how they use open-source intelligence, network scanning, and target enumeration attacks to find the gaps in your network security. Waiting until the night before the class starts to begin your download has a high probability of failure. SANS has begun providing printed materials in PDF form. Please start your course media downloads as you get the link. GCIF certification holders have the knowledge needed to manage security incidents by understanding common attack techniques, vectors and tools, as well as defend against and respond

to such attacks when they occur. You will work on a team or independently to scan, exploit, and complete post-exploitation tasks against a cyber range of target systems including Windows, Linux, Internet of Things devices, and cloud targets. Learn more Live, interactive sessions with SANS instructors over the course of one or more weeks, at times convenient to students worldwide.



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