Appendix A

Mapping Course Content to CompTIA Certification

Achieving CompTIA PenTest+ certification requires candidates to pass Exam PT0-002. This table describes where the exam objectives for Exam PT0-002 are covered in this course.

1.0 Planning and Scoping	
1.1 Compare and contrast governance, risk, and compliance concepts.	Covered in
Regulatory compliance considerations	Lesson 1, Topic B
Payment Card Industry Data Security Standard (PCI DSS)	
General Data Protection Regulatin (GDPR)	
Location restrictions	Lesson 2, Topic A
Country limitations	
Tool restrictions	
Local laws	
Local government requirements	
Privacy requirements	
Legal concepts	Lesson 2, Topic C
Service-level agreement (SLA)	
Confidentiality	
Statement of work	
Non-disclosure agreement (NDA)	
Master service agreement	
Permission to attack	Lesson 2, Topic C

1.2 Explain the importance of scoping and organizational/customer requirements	Covered in
Standards and methodologies	Lesson 2, Topic C
MITRE ATT&CK	
Open Web Application Security Project (OWASP)	
National Institute of Standards and Technology (NIST)	
Open-Source Security Testing Methodology Manual (OSSTMM)	
Penetration Testing Execution Standard (PTES)	
Information Systems Security Assessment Framework (ISSAF)	

1.2 Explain the importance of scoping and organizational/customer requirements	Covered in
Rules of engagement	Lesson 2, Topic B
Time of day	
Types of allowed/disallowed tests	
Other restrictions	
Environmental considerations	Lesson 2, Topic A
Network	
Application	
Cloud	
Target list/in-scope assets	Lesson 2, Topic A
Wireless networks	
Internet Protocol (IP) ranges	
Domains	
Application programming interfaces (APIs)	
Physical locations	
Domain name system (DNS)	
External vs. internal targets	
First-party vs. third-party hosted	
Validate scope of engagement	Lesson 2, Topic B
Question the client/review contracts	
Time management	
Strategy	
Unknown-environment vs. known-environment testing	

1.3 Given a scenario, demonstrate an ethical hacking mindset by maintaining professionalism	
and integrity	Covered in
Background checks of penetration testing team	Lesson 1, Topic D
Adhere to specific scope of engagement	Lesson 2, Topic B
Identify criminal activity	Lesson 1, Topic D
Immediately report breaches/criminal activity	Lesson 1, Topic D
Limit the use of tools to a particular engagement	Lesson 2, Topic B
Limit the invasiveness based on scope	Lesson 2, Topic B
Maintain confidentiality of data/information	Lesson 1, Topic D
Risk to the professional	Lesson 1, Topic D
Fees/fines	
Criminal charges	

2.1 Given a scenario, perform passive reconnaissance	Covered in
DNS lookups	Lesson 7, Topic E
Identify technical contacts	Lesson 3, Topic A
Administrator contacts	Lesson 3, Topic (
Cloud vs. self-hosted	Lesson 3, Topic (
Social media scraping	Lesson 3, Topic (
Key contacts/job responsibilities	20330113, 10010
Job listing/technology stack	
Cryptographic flaws	Lesson 3, Topic
Secure Socket Layer (SSL) certificates	20330113, 10010
Revocation	
Company reputation/security posture	Lesson 3, Topic
Data	Lesson 3, Topic
Password dumps	200001107110710
File metadata	
Strategic search engine analysis/enumeration	
Website archive/caching	
Public source-code repositories	
Open-source intelligence (OSINT)	Lesson 3, Topic
Tools	
Shodan	
Recon-ng	
Sources	Lesson 1, Topic
Common weakness enumeration (CWE)	
Common vulnerabilities and exposures (CVE)	
2.2 Given a scenario, perform active reconnaissance	Covered in
Enumeration	Lesson 9, Topic
Hosts	
Services	
Domains	
Users	
Uniform resource locators (URLs)	
Website reconnaissance	Lesson 3, Topic
Crawling websites	
Scraping websites	
Manual inspection of web links	
Manual inspection of web links robots.txt	
robots.txt	Lesson 5, Topic
robots.txt	Lesson 5, Topic
robots.txt Packet crafting Scapy	·
robots.txt Packet crafting Scapy Defense detection Load balancer detection	·
robots.txt Packet crafting Scapy Defense detection	Lesson 5, Topic (Lesson 5, Topic E

Antivirus Firewall

2.2 Given a scenario, perform active reconnaissance	Covered in
Tokens	Lesson 9, Topic B
Scoping	
Issuing	
Revocation	
Wardriving	Lesson 6, Topic C
Network traffic	Lesson 6, Topic B
Capture API requests and responses Sniffing	
Cloud asset discovery	Lesson 9, Topic D
Third-party hosted services	Lesson 13, Topic (
Detection avoidance	Lesson 8, Topic A
2.3 Given a scenario, analyze the results of a reconnaissance exercise	Covered in
Fingerprinting	Lesson 7, Topic A
Operating systems (OSs)	·
Networks	
Network devices	
Software	
Analyze output from:	Lesson 7, Topic B
DNS lookups	Lesson 7, Topic B
Crawling websites	Lesson 3, Topic C
Network traffic	Lesson 7, Topic B
Address Resolution Protocol (ARP) traffic	Lesson 6, Topic B
Nmap scans	Lesson 7, Topic B
Web logs	Lesson 7, Topic B
2.4 Given a scenario, perform vulnerability scanning	Covered in
Considerations of vulnerability scanning	Lesson 5, Topic A
Time to run scans	
Protocols	
Network topology	
Bandwidth limitations	
Query throttling	
Fragile systems	
Non-traditional assets	Lagran C. T
Scan identified targets for vulnerabilities	Lesson 6, Topic A
Set scan settings to avoid detection	Lesson 6, Topic A
Scanning methods	Lesson 6, Topic A
Stealth scan	
Transmission Control Protocol (TCP) connect scan	

2.4 Given a scenario, perform vulnerability scanning	Covered in
Nmap	Lesson 7, Topic A
Nmap Scripting Engine (NSE) scripts	
Common options	
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script=vuln	
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Vulnerability testing tools that facilitate automation	Lesson 9, Topic B

3.0 Attacks and Exploits	
3.1 Given a scenario, research attack vectors and perform network attacks	Covered in
Stress testing for availability	Lesson 9, Topic B
Exploit resources	Lesson 9, Topic C
Exploit database (DB)	
Packet storm	
Attacks	Lesson 9, Topic B
ARP poisoning	
Exploit chaining	
Password attacks	
Password spraying	
Hash cracking	
Brute force	
Dictionary	
On-path (previously known as man-in-the-middle)	
Kerberoasting	
DNS cache poisoning	Lesson 7, Topic C
Virtual local area network (VLAN) hopping	Lesson 9, Topic B
Network access control (NAC) bypass	Lesson 8, Topic A
Media access control (MAC) spoofing	Lesson 9, Topic B
Link-Local Multicast Name Resolution (LLMNR)/NetBIOS-Name Service (NBT-NS) poisoning	Lesson 9, Topic B
New Technology LAN Manager (NTLM) relay attacks	Lesson 9, Topic B
Tools	Lesson 9, Topic C
Metasploit	Lesson 9, Topic C
Netcat	Lesson 14, Topic E
Nmap	Lesson 7, Topic A

3.2 Given a scenario, research attack vectors and	
perform wireless attacks	Covered in
Attack methods	Lesson 10, Topic A
Eavesdropping	Lesson 10, Topic A
Data modification	Lesson 5, Topic A
Data corruption	Lesson 5, Topic A
Relay attacks	Lesson 10, Topic A
Spoofing	Lesson 10, Topic A
Deauthentication	Lesson 10, Topic A
Jamming	Lesson 10, Topic A
Capture handshakes	Lesson 10, Topic A
On-path	Lesson 9, Topic B
Attacks	Lesson 10, Topic A
Evil twin	Lesson 10, Topic A
Captive portal	Lesson 10, Topic A
Bluejacking	Lesson 11, Topic B
Bluesnarfing	Lesson 11, Topic B
Radio-frequency identification (RFID) cloning	Lesson 10, Topic A
Bluetooth Low Energy (BLE) attack	Lesson 12, Topic A
Amplification attacks [Nearfield communication (NFC)]	Lesson 10, Topic A
Wi-Fi protected setup (WPS) PIN attack	Lesson 10, Topic A
Tools	Lesson 10, Topic B
Aircrack-ng suite	Lesson 10, Topic B
Amplified antenna	Lesson 6, Topic C
3.3 Given a scenario, research attack vectors and	
perform application-based attacks	Covered in
OWASP Top 10	Lesson 13, Topic A
Server-side request forgery	Lesson 13, Topic B
Business logic flaws	Lesson 13, Topic B
Injection attacks	Lesson 13, Topic C
Structured Query Language (SQL) injection	
Blind SQL	
Boolean SQL	
Stacked queries	
Command injection	
Cross-site scripting	
Persistent	
Reflected	
Lightweight Directory Access Protocol (LDAP) injection	

3.3 Given a scenario, research attack vectors and perform application-based attacks	Covered in
Application vulnerabilities	Lesson 13, Topic A
Race conditions	
Lack of error handling	
Lack of code signing	
Insecure data transmission	
Session attacks	Lesson 13, Topic B
Session hijacking	
Cross-site request forgery (CSRF)	
Privilege escalation	
Session replay	
Session fixation	
API attacks	Lesson 13, Topic B
Restful	
Extensible Markup Language-Remote Procedure Call (XML-RPC)	
Soap	
Directory traversal	Lesson 13, Topic C
Tools	Lesson 14, Topic C
Web proxies	, ,
OWASP Zed Attack Proxy (ZAP)	
Burp Suite community edition	
SQLmap	
DirBurster	
Resources	Lesson 16, Topic A
Word lists	Lesson To, Topic A
WOI U IISCS	

3.4 Given a scenario, research attack vectors and perform attacks on cloud technologies	Covered in
Attacks	Lesson 9, Topic D
Credential harvesting	
Privilege escalation	
Account takeover	
Metadata service attack	
Misconfigured cloud assets	
Identity and access management (IAM)	
Federation misconfigurations	
Object storage	
Containerization technologies	
Resource exhaustion	
Cloud malware injection attacks	
Denial-of-service attacks	
Side-channel attacks	
Direct-to-origin attacks	
Tools	Lesson 14, Topic C

Software development kit (SDK)

3.5 Explain common attacks and vulnerabilities against specialized systems	Covered in
Mobile	Lesson 11, Topic B
Attacks	, .,
Reverse engineering	
Sandbox analysis	
Spamming	
Vulnerabilities	Lesson 11, Topic A
Insecure storage	, ,
Passcode vulnerabilities	
Certificate pinning	Lesson 19, Topic A
Using known vulnerable components	Lesson 11, Topic A
Dependency vulnerabilities	Lesson 11, Topic A
Patching fragmentation	Lesson 11, Topic A
Execution of activities using root	Lesson 11, Topic B
Over-reach of permissions	Lesson 11, Topic B
Biometrics integrations	Lesson 11, Topic B
Business logic vulnerabilities	Lesson 11, Topic A
Tools	Lesson 11, Topic C
Burp Suite	
Drozer	
Mobile Security Framework (MobSF)	
Postman	
Ettercap	
Frida	
Objection	
Android SDK tools	
ApkX	
APK Studio	
Internet of Things (IoT) devices	Lesson 11, Topic C
BLE attacks	
Special considerations	
Fragile environment	
Availability concerns	
Data corruption	
Data exfiltration	
Vulnerabilities	
Insecure defaults	
Cleartext communication	
Hard-coded configurations	
Outdated firmware/hardware	
Data leakage	
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Use of insecure or outdated components	

3.5 Explain common attacks and vulnerabilities against specialized systems	Covered in
Data storage system vulnerabilities	Lesson 11, Topic C
Misconfigurations—on premises and cloud-based	
Default/blank username/password	
Network exposure	
Lack of user input sanitization	Lesson 13, Topic A
Underlying software vulnerabilities	Lesson 12, Topic B
Error messages and debug handling	
Injection vulnerabilities	
Single quote method	Lesson 13, Topic C
Management interface vulnerabilities	Lesson 12, Topic B
Intelligent platform management interface (IPMI)	
Vulnerabilities related to supervisory control and data acquisition (SCADA)/Industrial Internet of Things (IIoT)/industrial control system (ICS)	Lesson 12, Topic B
Vulnerabilities related to virtual environments	Lesson 12, Topic C
Virtual machine (VM) escape	
Hypervisor vulnerabilities	
	Lesson 12, Topic C
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack	Covered in
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach	Covered in Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach social engineering attacks	Covered in
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach social engineering attacks Email phishing	Covered in Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach social engineering attacks Email phishing Whaling	Covered in Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach social engineering attacks Email phishing Whaling Spear phishing	Covered in Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach social engineering attacks Email phishing Whaling Spear phishing Vishing	Covered in Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach Social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing	Covered in Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach Social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key	Covered in Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach Social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key Watering hole attack	Covered in Lesson 4, Topic A Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key Watering hole attack	Covered in Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach Social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key Watering hole attack Physical attacks Tailgating	Covered in Lesson 4, Topic A Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key Watering hole attack Physical attacks Tailgating Dumpster diving	Covered in Lesson 4, Topic A Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach Social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key Watering hole attack Physical attacks Tailgating Dumpster diving Shoulder surfing	Covered in Lesson 4, Topic A Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach Social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key Watering hole attack Physical attacks Tailgating Dumpster diving	Covered in Lesson 4, Topic A Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach Social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key Watering hole attack Physical attacks Tailgating Dumpster diving Shoulder surfing Badge cloning	Covered in Lesson 4, Topic A Lesson 4, Topic A
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach Social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key Watering hole attack Physical attacks Tailgating Dumpster diving Shoulder surfing Badge cloning Impersonation	Covered in Lesson 4, Topic A Lesson 4, Topic B Lesson 4, Topic B
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach Social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key Watering hole attack Physical attacks Tailgating Dumpster diving Shoulder surfing Badge cloning Impersonation	Covered in Lesson 4, Topic A Lesson 4, Topic B Lesson 4, Topic B
Vulnerabilities related to containerized workloads 3.6 Given a scenario, perform a social engineering or physical attack Pretext for an approach Social engineering attacks Email phishing Whaling Spear phishing Vishing Short message service (SMS) phishing Universal Serial Bus (USB) drop key Watering hole attack Physical attacks Tailgating Dumpster diving Shoulder surfing Badge cloning Impersonation Tools	Covered in Lesson 4, Topic A Lesson 4, Topic A Lesson 4, Topic B

3.6 Given a scenario, perform a social engineering or physical attack	Covered in
Methods of influence	Lesson 4, Topic A
Authority	
Scarcity	
Social proof	
Urgency	
Likeness	
Fear	

3.7 Given a scenario, perform post-exploitation	
techniques	Covered in
Post-exploitation tools	Lesson 14, Topic A
Empire	
Mimikatz	
BloodHound	Lesson 16, Topic B
Lateral movement	Lesson 16, Topic B
Pass the hash	
Network segmentation testing	Lesson 6, Topic B
Privilege escalation	Lesson 13, Topic B
Horizontal	
Vertical	
Upgrading a restrictive shell	Lesson 13, Topic B
Creating a foothold/persistence	Lesson 16, Topic C
Trojan	•
Backdoor	
Bind shell	
Reverse shell	
Daemons	
Scheduled tasks	
Detection avoidance	Lesson 8, Topic C
Living-off-the-land techniques/fileless malware	
PsExec	
Windows Management Instrumentation (WMI)	
PowerShell (PS) remoting/Windows Remote Management (WinRM)	
Data exfiltration	
Covering your tracks	Lesson 8, Topic A
Steganography	Lesson 8, Topic B
Establishing a covert channel	Lesson 8, Topic C
Enumeration	Lesson 9, Topic A
Users	·
Groups	
Forests	
Sensitive data	Lesson 5, Topic A
Unencrypted files	·

4.0 Reporting and Communication	
4.1 Compare and contrast important components of written reports	Covered in
Report audience	Lesson 18, Topic A
C-suite	
Third-party stakeholders	
Technical staff	
Developers	
Report contents (**not in a particular order)	Lesson 18, Topic B
Executive summary	
Scope details	
Methodology	
Attack narrative	
Findings Risk rating (reference framework)	
Risk prioritization	
Business impact analysis	
Metrics and measures	
Remediation	
Conclusion	
Appendix	
Storage time for report	Lesson 18, Topic C
Secure distribution	Lesson 18, Topic C
Note taking	Lesson 18, Topic A
Ongoing documentation during test	
Screens	
Common themes/root causes	Lesson 18, Topic A
Vulnerabilities	·
Observations	
Lack of best practices	
4.2 Given a scenario, analyze the findings and	
recommend the appropriate remediation	
within a report	Covered in
Technical controls	Lesson 19, Topic A
System hardening	
Sanitize user input/parameterize queries	
Implemented multifactor authentication	
Encrypt passwords	
Process-level remediation	
Patch management	
Key rotation	
Certificate management	
Secrets management solution	

Network segmentation

4.2 Given a scenario, analyze the findings and recommend the appropriate remediation	
within a report	Covered in
Administrative controls	Lesson 19, Topic B
Role-based access control	
Secure software development life cycle	
Minimum password requirements	
Policies and procedures	
Operational controls	Lesson 19, Topic B
Job rotation	
Time-of-day restrictions	
Mandatory vacations	
User training	
Physical controls	Lesson 19, Topic C
Access control vestibule	
Biometric controls	
Video surveillance	

4.3 Explain the importance of communication during	
the penetration testing process.	Covered in
Communication path	Lesson 17, Topic A
Primary contact	
Technical contact	
Emergency contact	
Communication triggers	Lesson 17, Topic B
Critical findings	
Status reports	
Indicators of prior compromise	
Reasons for communication	Lesson 17, Topic B
Situational awareness	
De-escalation	
Deconfliction	
Identifying false positives	
Criminal activity	
Goal reprioritization	Lesson 17, Topic B
Presentation of findings	Lesson 17, Topic C

5.2 Given a scenario, analyze a script or code sample for use in a penetration	Covered in
Analyze exploit code to:	Lesson 14, Topic C
Download files	
Launch remote access	
Enumerate users	
Enumerate assets	
Opportunities for automation	Lesson 15, Topic C
Automate penetration testing process	
Perform port scan and then automate next steps based on results	
Check configurations and produce a report	
Scripting to modify IP addresses during a test	
Nmap scripting to enumerate ciphers and produce reports	

5.3 Explain use cases of the following tools during	
the phases of a penetration test	Covered in
Scanners	Lesson 5, Topic C
Nikto	
Open vulnerability assessment scanner (Open VAS)	
SQLmap	
Nessus	Lesson 17, Topic C
Open Security Content Automation Protocol (SCAP)	Lesson 6, Topic A
Wapiti	Lesson 13, Topic D
WPScan	
Brakeman	
Scout Suite	Lesson 9, Topic E
Credential testing tools	Lesson 16, Topic A
Hashcat	
Medusa	
Hydra	
CeWL	
John the Ripper	
Cain	
Mimikatz	Lesson 16, Topic B
Patator	Lesson 16, Topic A
DirBuster	
w3af	

5.3 Explain use cases of the following tools during the phases of a penetration test	Covered in
Debuggers	Lesson 14, Topic C
OllyDbg	
Immunity Debugger	
GNU Debugger (GDB)	
WinDbg	
Interactive Disassembler (IDA)	
Covenant	
SearchSploit	Lesson 9, Topic C
OSINT	Lesson 3, Topic A
WHOIS	
Nslookup	
Fingerprinting Organization with Collected	
Archives (FOCA)	Lesson 3, Topic D
theHarvester	
Shodan	
Maltego	
Recon-ng	
Censys	Lesson 5, Topic C
Wireless	Lesson 10, Topic B
Aircrack-ng suite	
Kismet	
Wifite2	
Rogue access point	Lesson 10, Topic A
EAPHammer	Lesson 10, Topic B
mdk4	
Spooftooph	
Reaver	
Wireless Geographic Logging Engine (WiGLE)	Lesson 6, Topic C
Fern	Lesson 10, Topic B
Web application tools	Lesson 13, Topic D
OWASP ZAP	
Burp Suite	
Gobuster	
Social engineering tools	Lesson 4, Topic C
Social Engineering Toolkit (SET)	·
BeEF	Lesson 13, Topic D
Remote access tools	Lesson 14, Topic B
Secure Shell (SSH)	•
Ncat	
Netcat	
ProxyChains	Lesson 8, Topic A
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5.3 Explain use cases of the following tools during	
the phases of a penetration test	Covered in
Networking tools	Lesson 6, Topic B
Wireshark	
Hping	Lesson 5, Topic C
Misc.	Lesson 9, Topic C
SearchSploit	
Responder	
Impacket tools	
Empire	Lesson 14, Topic A
Metasploit	Lesson 9, Topic C
mitm6	
CrackMapExec	Lesson 13, Topic D
TruffleHog	
Censys	Lesson 5, Topic C
Steganography tools	Lesson 8, Topic B
Openstego	
Steghide	
Snow	
Coagula	
Sonic Visualiser	
TinEye	Lesson 3, Topic B
Cloud tools	Lesson 9, Topic E
Scout Suite	
CloudBrute	
Pacu	
Cloud Custodian	