



350-701 SCOR Exam Topics

Customize Your Study Plan

To earn your CCNP Security or CCIE Security certification, you must pass the **350-701 SCOR** exam. This 120-minute exam tests your knowledge of implementing and operating core security technologies including network security, cloud security, content security, endpoint protection and detection, secure network access, visibility and enforcements.

The following topics are likely to be included on the **350-701 SCOR** exam. The topics are subject to change at any time to reflect the latest technologies aligned to Cisco's products.



Cisco Cert Prep Tip: Print out this document and use it as you assess your strengths and challenges in preparing your study plan.

Exam Topics:

Section: 1.0 Security Concepts

1.1 Explain common threats against on-premises and cloud environments	Need to Study?	Complete by:	Resource:	Completed
1.1.a On-premises: viruses, trojans, DoS/DDoS attacks, phishing, rootkits, man-in-the-middle attacks, SQL injection, cross-site scripting, malware	Y / N			<input type="checkbox"/>
1.1.b Cloud: data breaches, insecure APIs, DoS/DDoS, compromised credentials	Y / N			<input type="checkbox"/>
1.2 Compare common security vulnerabilities such as software bugs, weak and/or hardcoded passwords, SQL injection, missing encryption, buffer overflow, path traversal, cross-site scripting/forgery	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
1.3 Describe functions of the cryptography components such as hashing, encryption, PKI, SSL, IPsec, NAT-T IPv4 for IPsec, pre-shared key and certificate based authorization	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>

1.4 Compare site-to-site VPN and remote access VPN deployment types such as sVTI, IPsec, Cryptomap, DMVPN, FLEX-VPN including high availability considerations, and AnyConnect	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
1.5 Describe security intelligence authoring, sharing, and consumption	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
1.6 Explain the role of the endpoint in protecting humans from phishing and social engineering attacks	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
1.7 Explain North Bound and South Bound APIs in the SDN architecture	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
1.8 Explain DNAC APIs for network provisioning, optimization, monitoring, and troubleshooting	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
1.9 Interpret basic Python scripts used to call Cisco Security appliances APIs	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>

Section: 2.0 Network Security

2.1 Compare network security solutions that provide intrusion prevention and firewall capabilities	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
2.2 Describe deployment models of network security solutions and architectures that provide intrusion prevention and firewall capabilities	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
2.3 Describe the components, capabilities, and benefits of NetFlow and Flexible NetFlow records	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>

2.4 Configure and verify network infrastructure security methods (router, switch, wireless)	Need to Study?	Complete by:	Resource:	Completed
2.4.a Layer 2 methods (Network segmentation using VLANs and VRF-lite; Layer 2 and port security; DHCP snooping; Dynamic ARP inspection; storm control; PVLANS to segregate network traffic; and defenses against MAC, ARP, VLAN hopping, STP, and DHCP rogue attacks)	Y / N			<input type="checkbox"/>
2.4.b Device hardening of network infrastructure security devices (control plane, data plane, management plane, and routing protocol security)	Y / N			<input type="checkbox"/>
2.5 Implement segmentation, access control policies, AVC, URL filtering, and malware protection	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
2.6 Implement management options for network security solutions such as intrusion prevention and perimeter security (Single vs. multidevice manager, in-band vs. out-ofband, CDP, DNS, SCP, SFTP, and DHCP security and risks)	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
2.7 Configure AAA for device and network access (authentication and authorization, TACACS+, RADIUS and RADIUS flows, accounting, and dACL)	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
2.8 Configure secure network management of perimeter security and infrastructure devices (secure device management, SNMPv3, views, groups, users, authentication, and encryption, secure logging, and NTP with authentication)	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
2.9 Configure and verify site-to-site VPN and remote access VPN	Need to Study?	Complete by:	Resource:	Completed
2.9.a Site-to-site VPN utilizing Cisco routers and IOS	Y / N			<input type="checkbox"/>
2.9.b Remote access VPN using Cisco AnyConnect Secure Mobility client	Y / N			<input type="checkbox"/>
2.9.c Debug commands to view IPsec tunnel establishment and troubleshooting	Y / N			<input type="checkbox"/>

Section: 3.0 Securing the Cloud

3.1 Identify security solutions for cloud environments	Need to Study?	Complete by:	Resource:	Completed
3.1.a Public, private, hybrid, and community clouds	Y / N			<input type="checkbox"/>
3.1.b Cloud service models: SaaS, PaaS, IaaS (NIST 800-145)	Y / N			<input type="checkbox"/>
3.2 Compare the customer vs. provider security responsibility for the different cloud service models	Need to Study?	Complete by:	Resource:	Completed
3.2.a Patch management in the cloud	Y / N			<input type="checkbox"/>
3.2.b Security assessment in the cloud	Y / N			<input type="checkbox"/>
3.2.c Cloud-delivered security solutions such as firewall, management, proxy, security intelligence, and CASB	Y / N			<input type="checkbox"/>
3.3 Describe the concept of DevSecOps (CI/CD pipeline, container orchestration, and security)	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
3.4 Implement application and data security in cloud environments	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
3.5 Identify security capabilities, deployment models, and policy management to secure the cloud	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
3.6 Configure cloud logging and monitoring methodologies	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
3.7 Describe application and workload security concepts	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>

Section: 4.0 Content Security

4.1 Implement traffic redirection and capture methods	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
4.2 Describe web proxy identity and authentication including transparent user identification	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>

4.3 Compare the components, capabilities, and benefits of local and cloud-based email and web solutions (ESA, CES, WSA)	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
4.4 Configure and verify web and email security deployment methods to protect onpremises and remote users (inbound and outbound controls and policy management)	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
4.5 Configure and verify email security features such as SPAM filtering, anti-malware filtering, DLP, block listing, and email encryption	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
4.6 Configure and verify secure internet gateway and web security features such as block listing, URL filtering, malware scanning, URL categorization, web application filtering, and TLS decryption	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
4.7 Describe the components, capabilities, and benefits of Cisco Umbrella	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
4.8 Configure and verify web security controls on Cisco Umbrella (identities, URL content settings, destination lists, and reporting)	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>

Section: 5.0 Endpoint Protection and Detection

5.1 Compare Endpoint Protection Platforms (EPP) and Endpoint Detection & Response (EDR) solutions	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
5.2 Explain antimalware, retrospective security, Indication of Compromise (IOC), antivirus, dynamic file analysis, and endpoint-sourced telemetry	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
5.3 Configure and verify outbreak control and quarantines to limit infection	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>

5.4 Describe justifications for end-point-based security	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
5.5 Describe the value of endpoint device management and asset inventory such as MDM	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
5.6 Describe the uses and importance of a multifactor authentication (MFA) strategy	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
5.7 Describe endpoint posture assessment solutions to ensure endpoint security	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
5.8 Explain the importance of an endpoint patching strategy	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>

Section: 6.0 Secure Network Access, Visibility, and Enforcement

6.1 Describe identity management and secure network access concepts such as guest services, profiling, posture assessment and BYOD	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
6.2 Configure and verify network access device functionality such as 802.1X, MAB, WebAuth	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
6.3 Describe network access with CoA	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
6.4 Describe the benefits of device compliance and application control	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
6.5 Explain exfiltration techniques (DNS tunneling, HTTPS, email, FTP/SSH/SCP/SFTP, ICMP, Messenger, IRC, NTP)	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>
6.6 Describe the benefits of network telemetry	Need to Study?	Complete by:	Resource:	Completed
	Y / N			<input type="checkbox"/>

6.7 Describe the components, capabilities, and benefits of these security products and solutions	Need to Study?	Complete by:	Resource:	Completed
6.7.a Cisco Stealthwatch	Y / N			<input type="checkbox"/>
6.7.b Cisco Stealthwatch Cloud	Y / N			<input type="checkbox"/>
6.7.c Cisco pxGrid	Y / N			<input type="checkbox"/>
6.7.d Cisco Umbrella Investigate	Y / N			<input type="checkbox"/>
6.7.e Cisco Cognitive Threat Analytics	Y / N			<input type="checkbox"/>
6.7.f Cisco Encrypted Traffic Analytics	Y / N			<input type="checkbox"/>
6.7.g Cisco AnyConnect Network Visibility Module (NVM)	Y / N			<input type="checkbox"/>

SCOR Study Resources

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