

Cisco 300-209

Exam Name Implementing Cisco Secure Mobility Solutions
Exam Number 300-209 SIMOS
[Cisco Certified Network Professional Security](#)

Secure Communications

1 Site-to-site VPNs on routers and firewalls

- a) Describe GETVPN
- b) Implement IPsec (with IKEv1 and IKEv2 for both IPV4 & IPV6)
- c) Implement DMVPN (hub-Spoke and spoke-spoke on both IPV4 & IPV6)
- d) Implement FlexVPN (hub-Spoke on both IPV4 & IPV6) using local AAA

2 Implement remote access VPNs

- a) Implement AnyConnect IKEv2 VPNs on ASA and routers
- b) Implement AnyConnect SSLVPN on ASA and routers
- c) Implement clientless SSLVPN on ASA and routers
- d) Implement FLEX VPN on routers

Troubleshooting, Monitoring and Reporting Tools

1 Troubleshoot VPN using ASDM & CLI

- a) Troubleshoot IPsec
- b) Troubleshoot DMVPN
- c) Troubleshoot FlexVPN
- d) Troubleshoot AnyConnect IKEv2 and SSL VPNs on ASA and routers
- e) Troubleshoot clientless SSLVPN on ASA and routers

Secure Communications Architectures

1 Design site-to-site VPN solutions

- a) Identify functional components of GETVPN, FlexVPN, DMVPN, and IPsec
- b) VPN technology considerations based on functional requirements
- c) High availability considerations
- d) Identify VPN technology based on configuration output

2 Design remote access VPN solutions

- a) Identify functional components of FlexVPN, IPsec, and Clientless SSL
- b) VPN technology considerations based on functional requirements
- c) High availability considerations
- d) Identify VPN technology based on configuration output
- e) Identify AnyConnect client requirements
- f) Clientless SSL browser and client considerations/requirements
- g) Identify split tunneling requirements

3 Describe encryption, hashing, and Next Generation Encryption (NGE)

- a) Compare and contrast Symmetric and asymmetric key algorithms
- b) Identify and describe the cryptographic process in VPNs – Diffie-Hellman, IPsec – ESP, AH, IKEv1, IKEv2, hashing algorithms MD5 and SHA, and authentication methods
- c) Describe PKI components and protection methods
- d) Describe Elliptic Curve Cryptography (ECC)

e) Compare and contrast SSL, DTLS, and TLS

