

CISCO ASA



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Overview of Security Technology

1. Network Firewalls
2. IPS & IDS
3. Protocol analysis
4. Global Threat Capabilities
5. VPN
6. IPSec
7. IKEv1
8. IKEv2
9. SSL
10. Anyconnect
11. Flex
12. GRE
13. DMVPN

Cisco ASA Products & Licensing

1. Cisco 5500X Series
2. Cisco 1000V Cloud Firewall
3. License Feature on ASA
4. Display license information
5. License management &
6. key activation
6. Shared Premium VPN License

Basic Setup of ASA

1. Initial setup by CLI
2. Initial setup of ASDM
3. Uploading ASDM
4. Accessing ASDM
5. Device Setup
6. Interface config
7. DHCP Service
8. Manual Clock setup
9. NTP



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System maintenance

1. Management of running-config
2. Management of startup-config
3. Remote access by telnet & ssh
4. Image upgrade using ASDM
5. Image upgrade using CLI
6. Image upload using ROMMON
7. Password Recovery
8. System monitoring & logging
9. Syslog server
10. Netflow Config
11. SNMP Config & monitoring
12. Device Monitoring & tshoot

AAA Services

1. Radius
2. Tacacs+
3. RSA Secure ID
4. Active Directory & Kerberos
5. LDAP
6. Authenticating telnet & ssh connection
7. Authentication console connection
8. Authenticating ASDM connection
9. Configuring Authorization
10. Configuring Accounting
11. Radius Accounting
12. Tacacs+ Accounting

Network Access Control

1. Types of ACL
2. Standard ACL
3. Extended ACL
4. Ethertype ACL
5. Webtype ACL
6. Object Group
7. Object Types
8. Time Based ACL
9. ICMP Filtering
10. Monitoring ACL



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Network Address Translation

1. Static Nat/PAT
2. Dynamic NAT/PAT
3. Policy NAT/PAT
4. Identity NAT
5. Randomization of sequence number
6. TCP Intercept
7. Packt flow sequence
8. Auto NAT Config
9. Manual NAT Config
10. Integrating ACL & NAT
11. Identity NAT for Site to Site VPN
12. Dynamic NAT for Remote Access VPN
13. Monitoring address translation

IPv6 Support

1. IPv6 Header
2. Global Unicast Address
3. Site Local address
4. Link local address
5. IPv6 address config
6. IPv6 DHCP & RELAY
7. Neighbor solicitation message
8. Router advertise transmission interval
9. IPv6 ACL
10. IPv6Address translation



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IP Routing

1. Configuring Static Routes
2. Displaying Routing Table
3. Configuring RIP
4. RIP Authentication
5. RIP Redistribution
6. RIP tshoot
7. OSPF Config
8. OSPF Virtual Links
9. OSPF Authentication
10. OSPF Redistribution
11. OSPF Stub Areas & NSSA
12. OSPFv3
13. EIGRP Config
14. Route Filtering for EIGRP
15. EIGRP Authentication
16. Route Redistribution in EIGRP
17. Route Summarization in EIGRP
18. Split Horizon
19. EIGRP tshoot

Application Inspection IP Routing

1. Enabling Application Inspection
2. DNS Inspection
3. Strict HTTP Commands
4. Content Length Commands
5. Max-Header-Length Command
6. Request Method Command
7. IPSec Pass-through
8. Instant Messenger



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Transparent Firewall

1. Transparent Firewall & VPN
2. Transparent firewall & NAT
3. Transparent Firewall Config
4. Enabling transparent firewall
5. Interface setup
6. Config IP address
7. Route Config
8. Interface ACL config
9. ARP Inspection
10. Config Steps using ASDM & CLI
11. ASA Firewall Monitoring & tshoot

High Availability

1. Redundant Interface
2. Static Route config with SLA Monitor
3. Stateful Failover
4. Active/standby
5. ACtive/Active failover
6. Failover interface
7. Staeful links
8. Failover links security
9. Config failover
10. Monitoring & tshoot failover
11. Clustering
12. Cluster Management
13. Span Etherchannel Mode
14. Performance
15. State Transition
16. Config clustering



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