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CCNA Security

Stepping stone for every Security Professional

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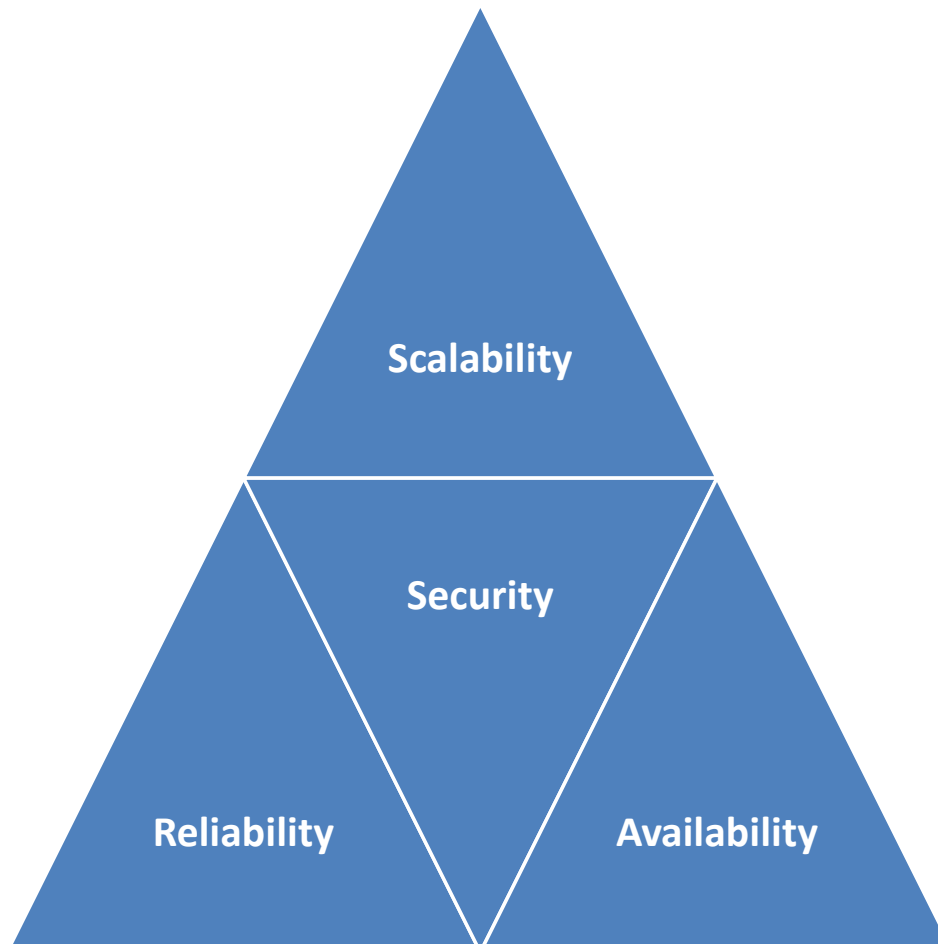
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IMPORTANT FACTS ABOUT CCNA SECURITY

- ✓ Network threats are existent and ever-growing
- ✓ Companies are exposed to constant external & internal attacks
- ✓ Security professionals form pillar of the network infrastructure
- ✓ CCNA Security is the stepping stone for a career in security

Network Infrastructure Challenges



Network Security is at the heart of all the challenges. It is the toughest & the most rewarding career

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CCNA SECURITY SYLLABUS

Session	Topic	Contents
1	Describe the security threats facing modern network infrastructures	<ul style="list-style-type: none"> ➤ Describe and list mitigation methods for common network attacks ➤ Describe and list mitigation methods for Worm, Virus, and Trojan Horse attacks ➤ Describe the Cisco Self Defending Network architecture
2	Securing Network Devices	<ul style="list-style-type: none"> ➤ Securing Device access <ul style="list-style-type: none"> ○ Console Telnet SSH HTTP and HTTPS ○ ACL Restriction and User based access ➤ Security audit and IOS hardening ➤ Privilege Levels and Role based CLI ➤ Login attacks and File security

3	AAA	<ul style="list-style-type: none">➤ Understand AAA services<ul style="list-style-type: none">○ Implementing AAA using Local database○ Implementing AAA using Tacacs+ and Radius server
4	ACL & NAT	<ul style="list-style-type: none">➤ Understand Extended ACL and its implementation➤ Limitation of ACL➤ NAT overview<ul style="list-style-type: none">○ Dynamic Nat, PAT and Static NAT
5	IOS Firewall	<ul style="list-style-type: none">➤ Understanding Stateful Firewall➤ Content Based Access Control (CBAC)➤ Zone-Based Policy Firewall
6	Implementing IOS IPS	<ul style="list-style-type: none">➤ Understand IPS &IDS➤ Network and Host based IPS➤ Implementing IOS IPS on CISCO ISR
7	Securing Local Area Network	<ul style="list-style-type: none">➤ Understanding Endpoint Security Issues➤ Layer2 Security attack and Mitigation

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Managing Network

- Port Security
- Storm control
- DOT1x
- Wireless, VOIP and SAN security
- SPAN and RSPAN

- Syslog
- SNMP
- NTP

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Cryptography

- Describe Methods of Implementing data Encryption and Integrity
 - Symmetric and Asymmetric Encryption
 - Hashing and Digital Signatures

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Implementing Virtual Private Network

- Understanding VPN and advantage
- IPSec Framework
- Site-to-Site VPN Implementation using Pre-shared key
- Overview of Remote access and SSL VPN

CCNA SECURITY LABS

1	Configuring Secure Telnet Access
2	Configuring Secure SSH
3	Using ACL for Telnet and SSH access
4	HTTP and HTTPS configuration
5	Security Audit using SDM
6	Auto Secure command
7	Configuring Privilege levels
8	Role Based CLI configuration with Super Views
9	Login attack prevention
10	Using AAA for Local Authentication
11	Configuring Tacacs+ Server for IOS Authentication
12	Configuring Anti-Spoofing ACL
13	ACL limitation Lab
14	Single Scenario Lab for Nat, Pat and Static NAT
15	CBAC configuration Lab
16	Configuring Zone-Based Firewall using CLI & SDM
17	Configuring IOS IPS on ISR Router
18	Static MAC address on Switch
19	Port Security Lab
20	Implementing DOT1x on Switch and Radius server
21	SPAN and RSPAN lab
22	Configuring Syslog on IOS
23	SNMP configuration
24	NTP lab using 3 ISR routers

25	Site-to-Site VPN implementation using 3 Routers setup
26	Final Project of Implementing Double Firewall in Two ISP Scenario



You can now request for a free Demo Session before enrolling yourself for any program. This will ensure that the responsibility of uplifting your career is in the right hands. All Labs written and designed by Chandan Sharma.

CONTACT US RIGHT AWAY

