CBT Nuggets - Cisco 642-813 CCNP SWITCH

Employers know that CCNP certified job applicants have a real-world knowledge of networking. They also know that Cisco awards big discounts to companies that hire Cisco certified staff.

After watching Jeremy Cioara's new CCNP 642-813 SWITCH training you'll be a master-level consultant on Cisco switched networks. You'll also have brighter career prospects and be an important step closer to CCNP certification.

Jeremy covers everything you ever wanted to know about switching in this update to his existing BCMSN series. In no time, you'll be designing your network for maximum uptime and preparing it for advanced services like WiFi, VoIP and Video over IP.

What You'll Learn

Video 1: Welcome to Cisco Switch: Watch Me First!|17:23
To successfully navigate the CBTNuggets Cisco SWITCH series, you'll want to watch this nugget first! In here, Jeremy explains the updates to the Cisco certification program (specifically, CCNP) and the topics that comprise the blended Cisco BCMSN / Cisco SWITCH series.
Video 2: The Switches Domain: Core Concepts and Design|42:03
Before diving into in-depth switching concepts, it's best to see the big picture first. This nugget focuses on the evolution of LAN environments, Cisco's Enterprise Composite Network Model (ECNM), and general switch design concepts.
Video 3: VLANs: Configuration and Verification|13:16
Virtual LANs (VLANs) are a concept that took the network world by storm. It's virtually impossible to find any business network not employing VLANs somewhere in their network architecture. This video explains the concept of VLANs along with the base configuration.
Video 4: VLANs: In-Depth Trunking|35:57
The VLAN fun continues as Jeremy walks through the concepts and configuration of ISL and 802.1Q trunking methods. This video also discusses the purpose behind the 802.1Q native VLAN, which is key in understanding modern Cisco VoIP devices.
Video 5: VLANs: VLAN Trunking Protocol|33:20
The final of the VLAN videos focuses on the VLAN Trunking Protocol (VTP). This protocol can save you a ton of time or destroy your network in less than a second! Be sure to check out this video before using VTP in your network.
Video 6: STP: Foundation Per-VLAN Spanning Tree Concepts, Part 1|23:47
The concept behind Spanning-Tree Protocol (STP) is simple: stop loops in a redundant switched network. However, networks have become increasingly complex, which makes STP more difficult to understand. This is Part 1 of learning the essentials of the 802.1d implementation of STP.
Video 7: STP: Foundation Per-VLAN Spanning Tree Concepts, Part 2|34:20
The concept behind Spanning-Tree Protocol (STP) is simple: stop loops in a redundant switched network. However, networks have become increasingly complex, which makes STP more difficult to understand. This is Part 2 of learning the essentials of the 802.1d implementation of STP.
Video 8: STP: Rapid Spanning Tree Concepts and Configuration|24:10
Video 9: EtherChannel: Aggregating Redundant Links|24:02
STP may do a great job at blocking the redundant links, but isn't there a better way? You bet there is! Say hello to EtherChannel, the protocol allowing you to use the extra bandwidth provided by the redundant links without causing loops in your network.
Video 10: L3 Switching: InterVLAN Routing Extraordinaire|28:31
Whenever VLANs are introduced to help segment a network, routers must also step onto the scene to move data between those VLANs. This video walks through multiple methods (including Layer 3 switching) to move data between VLANs in a campus environment.
Video 11: L3 Switching: Understanding CEF Optimization|16:54
If you look at the documentation for any modern Cisco switch, you will see the tag line, "This switch supports Cisco Express Forwarding (CEF)." What is CEF? How does it make my switch faster? Can I configure CEF? What is the meaning of life? Find all

these answers (except perhaps the last question) in this video.
Video 12: Redundancy in the Campus: HSRP, VRRP, and GLBP Part 1|43:37
Part 1: It won't take you long to realize that Hot Standby Router Protocol (HSRP), Virtual Router Redundancy Protocol (VRRP), and Gateway Load Balancing Protocol (GLBP) are some of Jeremy's favorite topics to talk about. These protocols bring redundant connections to the campus network. Watch as Jeremy explains and configures the protocols in a life network environment.
Video 13: Redundancy in the Campus: HSRP, VRRP, and GLBP Part 2|23:38
Part 2: It won't take you long to realize that Hot Standby Router Protocol (HSRP), Virtual Router Redundancy Protocol (VRRP), and Gateway Load Balancing Protocol (GLBP) are some of Jeremy's favorite topics to talk about. These protocols bring redundant connections to the campus network. Watch as Jeremy explains and configures the protocols in a life network environment.
Video 14: Campus Security: Basic Port Security and 802.1x|32:34
It's time to move into the final campus LAN topic: security. Quite often, Layer 2 security gets overlooked for the "more important" matters such as an Internet firewall. However, if the layer 2 fabric of your network is compromised, Internet firewalls won't make a bit of difference. Check out this video to find out why.
Video 15: Campus Security: VLAN and Spoofing Attacks|31:15
The campus security continues on as Jeremy discusses methods to prevent VLAN hopping attacks, rogue DHCP servers, and spoofing.
Video 16: Campus Security: STP Attacks and Other Security Considerations|15:08
Jeremy wraps up the security portion and the entire series by discussing attacks for the Spanning Tree Protocol. This is followed up with a discussion of the Cisco recommended best practices for security on a network switch.
Video 17: Campus VoIP: Overview, Considerations, and AutoQoS|44:47
Voice over IP (VoIP) has gained sizable momentum in the industry, converting one enterprise network after another. The sad thing is that most organizations don't even realize WHY they are moving to VoIP. This video discusses the benefits of using VoIP, the migration phases to move a network to VoIP, and the technical network requirements to support VoIP.
Video 18: Wireless LAN: Foundation Concepts and Design Part 1|26:25
802.11 wireless is one of the newest topics to make its way on to the Cisco BCMSN exam. It's no surprise to see the addition when you take into consideration the speed at which 802.11 wireless equipment is being installed in corporate networks. This video introduces key pieces of wireless networks and talks through the proper way to design a wireless network for your organization.
Video 19: Wireless LAN: Foundation Concepts and Design Part 2|22:56
The wireless concepts get deeper as Jeremy discusses the purpose behind 802.11 wireless roaming and using VLANs in wireless networks.
Video 20: Wireless LAN: Frequencies and 802.11 Standards|34:41
Wireless networking without security is like walking around with all your personal identification and credit cards taped to the outside of your clothing for all to see. This video discusses the wireless security standards along with 802.11 channels and frequencies.
Video 21: Wireless LAN: Understanding the Hardware|30:21
t is absolutely necessary that you understand what router to purchase to fill a customer's requirements. Likewise, purchasing the right Cisco wireless hardware can make or break the network environment. This video discusses the different wireless hardware you can use in your network.
Video 22: The Switches Domain: Additional Life-Saving Technology|22:49
In addition to "typical" network protection mechanisms (STP, BPDU Guard, etc...), Cisco has devised additional mechanisms to keep your network running smoothly. This nugget explores the following topics: Loopguard, UDLD, Stateful Switchover (SSO), and Non-Stop Forwarding (NSF). In addition, Jeremy adds a few more bits of big picture design.
Video 23: Monitoring: Your Pulse on the Network|45:43
Monitoring has long since been the "missing piece" from Cisco certification. Finally, with the latest CCNP revision, Cisco has begun adding bits of proactive monitoring advice. This nugget focuses on three monitoring types: syslog, SNMP, and IP SLA.
Video 24: Campus Security: VACLs|14:27
If there's one thing better than and ACL, it's a VACL! That's a VLAN-based Access Control List (VACL). In this short nugget, Jeremy discusses the why and how behind implementing VACLs as he walks through a sample implementation.

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