

## Bowler Cisco CBT Labs Volume 1 And 2 DVD DISC 4 - HELL

60 total videos covering the following topics: Enhanced Interior Gateway Routing Protocol (EIGRP) \*Configure/Explain EIGRP and use show/debug commands for verification \*EIGRP Basics \*EIGRP Network command \*EIGRP MD5 Authentication \*Explain how EIGRP calculates the composite metric \*EIGRP Summarization \*EIGRP Leak-maps \*EIGRP default route \*Virtual Template Interfaces Border Gateway Protocol (BGP) \*Configure/Explain BGP concepts listed below and use show/debug commands for verification \*BGP MD5 Authentication \*BGP TTL Security \*BGP Outbound Route Filtering (ORF) between 2 routers \*Configure/Explain BGP and use show/debug commands for verification \*External BGP (EBGP) \*Internal BGP (IBGP) \*BGP Authentication \*BGP Route Reflectors \*BGP AS\_Path attribute \*BGP Local Preference attribute \*BGP Default Route \*BGP Route Aggregation \*BGP Route Dampening \*BGP Suppress-Maps \*BGP Unsuppress-Maps \*EBGP Multihop \*BGP Update Source Loopback \*BGP Weight Attribute \*BGP Multi-Exit Discriminator (MED) Attribute \*BGP Community Attribute \*BGP Confederations \*IP Prefix-Lists for BGP Frame Relay \*Configure/Explain Frame Relay concepts listed below and use show/debug commands for verification \*Frame Relay End to End Keepalives (EEK) \*Point to Point Protocol (PPP) Multilink over Frame Relay \*Explain and show how to setup Virtual Template interfaces and how they are used with PPP over Frame Relay. \*Frame Relay Static configuration \*Frame Relay Point to Point configuration \*Frame Relay point-to-multipoint configuration \*Frame Relay switch in GNS3 IPv6 \*Configure/Explain IPv6 concepts listed below and use show/debug commands for verification \*Setting up Frame Relay Static maps using IPv6 \*Routing Information Protocol Next Generation (RIPng) \*Configure RIPng on 3 routers on an Ethernet network and explain how RIPng works in comparison to RIPv2 \*Enhanced Interior Gateway Protocol (EIGRP) IPv6 \*Configure EIGRP IPv6 on 3 different routers in an Ethernet network and show the differences between EIGRP IPv6 and EIGRP IPv4 \*Open Shortest Path First Version 3 (OSPFv3) \*Configure OSPFv3 on 3 different routers over frame relay \*Explain how OSPFv3 is different than OSPF IPv4 \*Explain the link-local IPv6 addresses and how they are used to provide reachability over frame relay networks using IPv6 dynamic routing protocols \*Border Gateway Protocol for IPv6, Multiprotocol BGP (MBGP) \*Configure BGP IPv6 between 2 different routers and explain how BGP IPv6 works in comparison to BGP IPv4 \*Configure IPV6 on Fast Ethernet and Loopback Interfaces \*Configure IPV6 Static Routing \*IPV6 address auto-configuration Routing Information Protocol (RIPv2) \*Configure/Explain RIPv2 concepts listed below and use show/debug commands for verification \*Setup RIPv2 Offset Lists and explain how they are used to manipulate RIPv2 metrics and their filtering capabilities \*Setup RIPv2 Summarization \*RIPV2 on 6 routers \*RIPV2 plain text and md5 authentication \*Detailed look at rip hop count metric Open Shortest Path First (OSPF) \*Configure/Explain OSPF concepts listed below and use show/debug commands for verification \*OSPF over Frame Relay using the network types of Non-Broadcast and Broadcast. \*Explain the different characteristics of Non-Broadcast and Broadcast network types in OSPF and how to configure and verify them. \*How to optimize your OSPF over Frame Relay using Broadcast and Non-Broadcast network types \*Configure All OSPF Area types including, Stub Area, Totally-Stub Area, Not So Stubby Area (NSSA) and Totally NSSA. \*Explain all the different OSPF area types and how they are used to filter Link State Advertisements on within different OSPF Areas \*Configure Redistribution of RIPv2 routes into the OSPF domain \*OSPF Basics \*OSPF in Five different Areas \*OSPF simple and MD5 authentication \*OSPF Summarization (Internal) \*Explain the basics of OSPF \*OSPF Virtual links \*OSPF Virtual link alternative (GRE Tunnel) Switching Labs \*802.1Q Tunnelling \*Configure/Explain how to setup an 802.1q Tunnel and show the characteristics of a L2VPN. \*Show how you can use an 802.1q Tunnel to create a Layer 2 VPN to tunnel CDP information between to Switches that are not directly connected. \*Switchport Security \*Configure/Explain how to use Switchport Security and show the characteristics of Switchport Security \*Explain how Switchport Security can be used to secure your switches from outside attacks. \*Explain the 3 different modes of Switchport security and also show you advanced Switchport security features to help ease the administration of switchports. \*Configure/Explain Etherchannels and use show commands for verification \*Configure a layer 2 Etherchannel \*Configure a layer 3 Etherchannel \*How to verify Etherchannel connectivity \*Dynamic Trunking Protocol (DTP) \*Configure/Explain DTP and use show commands for verification \*Vlan Trunking Protocol (VTP) \*Configure/Explain VTP and use show commands for verification \*Explain the different modes of VTP \*VTP Authentication \*VTP Pruning \*Vlan Trunking from a Switch to a Router \*Configure/Explain router-on-a-stick and use show commands for verification \*Configure/Explain VLANs and use show commands for verification IP Multicast \*Configure/Explain Multicast concepts listed below and use show/debug commands for verification \*Auto RP between 4 routers \*Explain the concept of a mapping agent within AutoRP. \*Explain how to announce multicast groups on a RP into the Auto RP domain and how the Mapping Agent will discover, advertise and Map to the groups to the specific RPs. \*Configure IP Protocol Independent Multicast Dense Mode (PIM-DM) \*Configure IP Protocol Independent Multicast Sparse Mode (PIM-SM) Access

Control Lists \* Configure/Explain the Zone Based Firewall concepts listed below and use show/debug commands for verification

- \* Setup a Zone Based Firewall (ZBF) and show how they work with the MQC configuration set.
- \* Explain in detail how filtering takes place within ZBFs
- \* Explain the different Zone types
- \* Explain the concept of a Zone Pair
- \* Explain how you apply the policy map to the Zone pairs
- \* Explain how to put interfaces into different Zones
- \* Standard Access Control List (ACL)
- \* Virtual Terminal Line (VTY) Filtering
- \* Time Based Access Control List (TBACL)
- \* Explain/Verify how TBACLs work
- \* IP route-cache flow to monitor network traffic on the router
- Quality of Service (QoS)
- \* Configure/Explain the QoS concepts listed below and use show/debug commands for verification
- \* Explain in detail how to setup and use the Modular Quality of Service Command Line Interface (MQC) configuration set
- \* Show how to use Class-maps, Policy-maps and apply the policy map inbound/outbound on an interface.
- \* IP Network Based Application Recognition (NBAR)
- \* Explain in detail how to implement NBAR and how it can be used proactively to discover Applications and Protocols that are running on or through a specific interface
- \* Explain Packet Description Language Module (PDLM) and how it can be used in NBAR
- \* Explain in detail the Match Protocol Class map statement and how it is related to NBAR
- \* Legacy Frame Relay Traffic Shaping (FRTS)
- \* Explain in detail how to setup and use Legacy FRTS on 3 different routers using the concept of a map-class to apply under the specific Data Link Connection Identifiers (DLCIs)
- \* Explore some of the main features of Legacy FRTS and explain them such as map-class, CIR, Bc, Be, Tc, BECN, Adaptive shaping, MINCIR.
- Point to Point Protocol (PPP)
- \*Configure/Explain PPP Multilink on 2 routers across multiple Serial point-to-point connections.
- \*Explain the concept of bundling multiple interfaces together to form one logical interface.
- \*PPP Authentication over Point to Point Serial Link
- \*PPP CHAP Authentication
- \*PPP PAP Authentication
- Multi Protocol Label Switching (MPLS)
- \*Configure/Explain MPLS and use show/debug commands for verification
- \*MPLS Unicast IP Forwarding
- MPLS VPNs
- \*Configure/Explain MPLS VPNs and use show/debug commands for verification
- \*Virtual Routing and Forwarding (VRF)
- \*Multi-Protocol BGP (VPNv4)
- \*Mutual Redistribution between PE and CE nodes running RIPv2
- \*Explain BGP AS-Path Attribute in MPLS VPN
- \*BGP allow-as in
- \*BGP as-override
- On-Demand Routing (ODR)
- \*Configure/Explain ODR and use show/debug commands for verification
- \*Explain Cisco Discovery Protocol (CDP) and its use with ODR
- Floating Static Route
- \*Configure/Explain floating static route and use show/debug commands for verification
- IP Services
- \*Configure/Explain Dynamic Host Configuration Protocol (DHCP) on a router and use show/debug commands for verification
- \*Microsoft loopback adapter on your computer to act as a DHCP Client for the DHCP Server in GNS3
- \*Configure/Explain Network Time Protocol (NTP) on a router and use show/debug commands for verification
- \*Basic NTP for both Broadcast and Non-broadcast Networks
- Policy Based Routing (PBR)
- \*Configure/Explain PBR and use show/debug commands for verification
- \*Policy Based Routing using a Route-map
- Generic Routing Encapsulation (GRE)
- \*Configure/Explain GRE Tunnel and use show/debug commands for verification
- \*GRE Tunnel
- \*EIGRP Across GRE Tunnel
- \*Explain GRE Tunnel Basics
- Hot Standby Router Protocol (HSRP)
- \*Configure/Explain HSRP and use show/debug commands for verification
- \*HSRP Preemption
- \*HSRP traffic flow
- Connecting Real Switches to GNS3/Dynamips
- \*Connect a real 3550 to GNS3
- \*Verify connectivity between the router in GNS3 and the Real 3550
- \*Give you specifications on my GNS3/Dynamips Server
- Redistribution
- \*Perform Mutual Redistribution between RIPv2 and OSPF
- \*Use a route-map to tag routes
- \*Explain RIP and OSPF Metrics
- \*Verify that redistribution is being performed properly using show commands
- GNS3
- \*Configure/Explain how to use GNS3 and set it up to use.
- Security Device Manager (SDM)
- \*Configure/Explain how to use SDM with GNS3

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