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Nota di contenuto	Cover; Title Page; Copyright; Contents; Foreword; Introduction; Chapter 1 Introduction and Overview; 1.1 Border Gateway Protocol; Introduction to BGP; Multiprotocol BGP; 1.2 Virtual Private Routed Network; 1.3 Multicast; Multicast VPN; Chapter Review; Part I Border Gateway Protocol (BGP); Chapter 2 Internet Architecture; Pre-Assessment; 2.1 Internet Architecture Overview; Peering and Transit; ISP Tiers; 2.2 Autonomous Systems; AS Numbers; AS Types; Inter-AS Traffic Flow; Chapter Review; Post-Assessment; Chapter 3 BGP Fundamentals; Pre-Assessment; 3.1 BGP Overview; 3.2 BGP Operation BGP Neighbor Establishment and the Finite State Machine (FSM)BGP Timers; Routing Information Exchange between BGP Peers; 3.3 BGP Session Types (eBGP and iBGP); BGP Route Propagation; 3.4 BGP Attributes; Origin Attribute; AS-Path Attribute; AS4-Path Attribute; Next-Hop Attribute; Local-Pref Attribute; Atomic-Aggregate Attribute; Aggregator Attribute; Community Attribute; Well-Known Communities; Multi-Exit-Disc (MED) Attribute; Originator-ID and Cluster-List Attributes; MP-Reach-NLRI and MP-Unreach-NLRI; PMSI-Tunnel; Packet Forwarding; Chapter Review; Post-Assessment Chapter 4 Implementing BGP in Alcatel-Lucent SR OSPre-Assessment; 4.1 BGP Route Selection; Route Table Manager (RTM); BGP Databases;

BGP Route Processing; 4.2 Configuring BGP in SR OS; Address Planning; BGP Command-Line Interface Structure in SR OS; eBGP Configuration; Exporting Networks to BGP; iBGP Configuration; Traffic Flow across the AS; 4.3 BGP Address Families; IPv6 BGP Deployment Considerations; IPv6 BGP Configuration; Practice Lab: Configuring BGP in SR OS; Lab Section 4.1: IGP Discovery and Preparing to Deploy BGP
Lab Section 4.2: eBGP Configuration and Exporting AS 64501 Customer Networks to BGP
Lab Section 4.3: iBGP Configuration and Exporting External Customer Networks to BGP; Lab Section 4.4: Traffic Flow Analysis; Lab Section 4.5: IPv6 BGP Configuration; Chapter Review; Post-Assessment; Chapter 5 Implementing BGP Policies on Alcatel-Lucent SR; Pre-Assessment; 5.1 Policy Implementations and Tools; Objectives of BGP Policies; Deploying BGP Policies; BGP Export Policies; BGP Import Policies; Policy Statements; Policy Evaluation; 5.2 Prefix-Lists; Export Policy with Prefix-List
Import Policy with Prefix-List
Matching on Prefix Length; 5.3 Using Communities to Control Route Selection; Use of the Community Attribute; 5.4 Aggregate Route Policy; Advertising Aggregate and Specific Routes; Advertising Aggregate Route Only; Aggregating Neighboring AS Address Space; 5.5 Using AS-Path to Control Route Selection; AS-Path Prepend; AS-Path Regular Expressions; 5.6 Using MED; always-compare-med; 5.7 Using Local-Pref to Influence Traffic Flow; Practice Lab: Configuring BGP in SR OS; Lab Section 5.1: Defining Communities; Lab Section 5.2: Build the Inter-AS Export Policies
Lab Section 5.3: Build the Inter-AS Import Policies

Sommario/riassunto

A comprehensive resource for professionals preparing for Alcatel-Lucent Service Routing Architect (SRA) certification. Networking professionals are taking note of Alcatel-Lucent and its quick ascent in the networking and telecom industries. IP networking professionals looking for a comprehensive guide to obtaining the Alcatel-Lucent Service Routing Architect (SRA) certification will be pleased to learn of this new publication, Alcatel-Lucent Service Routing Architect (SRA) Self-Study Guide: Preparing for the BGP, VPRN and Multicast Exams. The book comprises approximately 2,600 pages of print a
