

<<CCDA:Cisco Certified>>

图书基本信息

书名：<<CCDA:Cisco Certified Design Associate学习指南(英文原版) >>

13位ISBN编号：9787505353695

10位ISBN编号：7505353691

出版时间：1999-11

出版时间：电子工业出版社

作者：（美）Todd Lammle,Donald Porter,James Chellis

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

书籍目录

- Table of Contents
- Introduction
- Chapter 1 Introduction to Internetworking
 - Internetworking Fundamentals
 - Evolution of Internetworking
 - Internetworks
 - LAN Devices
 - WAN Devices
 - The OSI Reference Model
 - The Layered Approach
 - The OSI Layers
 - Data Encapsulation
 - LAN Technologies
 - Ethernet and IEEE 802.3
 - Fiber Distributed Data Interface (FDDI)
 - Token Ring
 - ATM
 - Summary
 - Review questions
- Chapter 2 as Segmentation
 - Reliering Network Congestion
 - Segmentation with a Bridge
 - Segmentation with a Router
 - Segmentation with LAN Switches
 - Spanning-Tree Protocol
 - VLAN (Virtual LAN)
 - Frame Tagging
 - Full-Duplex Ethernet
 - Half Duplex Ethernet Design
 - Full-Duplex Ethernet Design
 - 100BaseT Fast Ethernet
 - Advantages of Fast Ethernet
 - 100BaseT Specifications
 - Summary
 - Review Questions
- Chapter 3 Network Protocols
 - TCP/IP
 - Process/Application Layer Protocols
 - Host-to-Host Layer Protocols
 - Internet Layer Protocols
 - Network Access Layer Protocols
 - IP Address Resolution
 - Local Resolution
 - The ARP Cache
 - Remote Resolution

<<CCDA: Cisco Certified>>

Novell IPX
Novell IPX Protocol Stack
Client-Server Communication
Server-Server Communication
IPX Addressing
Summary
Review questions
Chapter 4 Pre-Design Procedures
Cisco's Small-to Medium-Sized Business Solutions Framework
Media Problems
Protocol Problems
Transport Problems
The Current Network
Administrative Data
Technical Data
Portray the Current Network
Evaluation of Needs and Expectations
Business Constraints
Security Requirements
Manageability Requirements
Application Requirements
Performance Requirements
Summary
Case Studies
Have-A-Seat
MPS Construction
Willow Creek School District
Review Questions
Chapter 5 Designing Network Topologies
Hierarchical Topologies
Benefits of Hierarchical Topologies
Three-Layer Hierarchical Model
Fault Tolerant Topologies
Redundant LAN Configurations
Redundant WAN Connections
Performance: Load Balancing
Secure Topologies
Three-Part Firewall
Summary
Case Studies
Have-A-Seat
MPS Construction
Willow Creek School District
Review Questions
Chapter 6 LAN/WAN Hardware Considerations
Switching versus Routing in Network Design
Catalyst Hardware

The Routing Process
Switching Modes of Routers in a Small-to Medium-Sized
Network Design
Choosing a Router Platform
Packet Flow-High-End Routers
The Route Processor
WAN Design Considerations
Provisioning WAN Networks
Cisco Connection Services
WAN Protocols
Summary
Case Studies
Have-A-Seat
MPS Construction
Willow Creek School District
Review questions
Chapter 7 Network Addressing and Naming
Network Addressing
Variable-Length Subnet Masks (VLSMs)
VLSM Design Considerations
Discontiguous Addressing
Route Summarization
Private Addressing
Network Address Translation (NAT)
Router and Server Addresses
DHCP/Client Addressing Issues
IPX Considerations
Network Naming Standards
Summary
Case Studies
Have-A-Seat
MPS Construction
Willow Creek School District
Review questions
Chapter 8 Routing Wotocols
Routing Protocols
Scalability Features of Routing Protocols
Scalability Limitations of Distance-Vector Protocols
Scalability Limitations of Link-State Protocols
Interior Routing Protocols
RIP (IP Routing Information Protocol)
IGRP (Interior Gateway Routing Protocol)
IGRP Features
EIGRP (Enhanced IGRP)
EIGRP Features and Operation
Configuring EIGRP
Summary

<<CCDA: Cisco Certified>>

Case Studies

Have-A-Seat

MPS Construction

Willow Creek School District

Review questions

Chapter 9 Link-State and Bridging Protocols

OSPF (Open Shortest Path First)

Features and Operation

OSPF Metrics

Configuring OSPF

Route Summarization

Stub Areas

Redistribution

OSPF Filtering Considerations

NLSP

Bridging Protocols

Transparent Bridging

Integrated Routing and Bridging

Source-Route Bridging

Source-Route Transparent Bridging

Source-Route Translational Bridging

Summary

Case Studies

Have-A-Seat

MPS Construction

Willow Creek School District

Review Questions

Chapter 10 Cisco IOS Software

Access Lists

Proxy Services

IPX GNS Request

IPX Watchdog Spoofing

Proxy ARP

IP Helper Address

Compression

Encryption

Queuing Methods

FIFO Queuing

Weighted Fair Queuing

Priority Queuing

Custom Queuing

Traffic Shaping

RSVP

Summary

Case Studies

Have-A-Seat

MPS Construction

<<CCDA: Cisco Certified>>

Willow Creek School District
Review Questions
Chapter 11 Network Management
Benefits of Industry Standard Management Technologies
SNMP (Simple Network Management Protocol)
SNMP Functionality
SNMP Communications
RMON (Remote Monitoring)
Groups
Cisco Routers
Cisco Switches
Cisco RMON Stand-Alone Probes
Proactive Network Management
NOCs (Network Operation Centers)
Cisco Network Management Solutions
CiscoWorks
CWSI (CiscoWorks for Switched Internetworks)
CiscoView
TrafficDirector
NetSys
Cisco Hub/Ring Manager for Windows
CDP (Cisco Discovery Protocol)
Other Tools for Characterizing an Existing Internetwork
Summary
Case Studies
Have-A-Seat
MPS Construction
Willow Creek School District
Review questions
Chapter 12 Post-Design Issues
Preparing a Design Document
Section 1: Executive Summary
Section 2: Design Requirements
Section 3: Design Solution
Section 4: Summary
Section 5: Appendices
Pilot or Prototype Implementation
Steps Required for a Pilot Implementation
Steps Required for a Prototype Implementation.
Summary
Case Studies
Review Questions
Appendix A Answers to Review Questions
Appendix B Solutions to Case Studies
Appendix C Glossary

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>