

Introducing Network Design Concepts

Objectives

Upon completion of this chapter, you should be able to answer the following questions:

- What are the benefits of a hierarchical network design?
- What is the design methodology used by network designers?
- What are the design considerations for the core, distribution, and access layers?
- What are the design considerations for the network enterprise edge?
- What are the design considerations that must be met to support remote workers?
- What are the design considerations for supporting enterprise wireless and/or data center/server farms?

Key Terms

This chapter uses the following key terms. You can find the definitions in the Glossary.

Cisco Enterprise Architectures page 5

deterministic network page 5

top-down approach page 7

content networking page 8

storage networking page 8

network backbone page 9

virtual private networks (VPN) page 9

extranet page 9

multilayer switches page 11

load balancing page 11

Enhanced Interior Gateway Routing Protocol (EIGRP) page 11

Open Shortest Path First (OSPF) Protocol page 11

Spanning Tree Protocol (STP) page 11

full-mesh page 11

partial-mesh page 11

hot-swappable page 13

uninterruptible power supply (UPS) page 13

convergence time page 14

switch block page 17

Rapid Spanning Tree Protocol (RSTP) page 18

access control lists (ACL) page 19

dynamic ACL page 20

reflective ACL page 20

time-based ACL page 20

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security policy page 30

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data centers page 30

storage-area networks (SAN) page 32

denial-of-service (DoS) page 32

demilitarized zone (DMZ) page 33

Rapid Spanning Tree Protocol Plus (RSTP+) page 34

wireless LAN (WLAN) page 34

Wired Equivalent Privacy (WEP) page 37

Wi-Fi Protected Access (WPA) page 37

service set identifier (SSID) page 37

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Asynchronous Transfer Mode (ATM) page 40

service level agreements (SLA) page 40

Introducing Network Design Concepts Scte

Jiyuan Zhang



Introducing Network Design Concepts Scte:

Reviewing **Introducing Network Design Concepts Scte**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Introducing Network Design Concepts Scte**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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