

NETWORK DESIGN

Hands on Experience

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NETWORK DESIGN : A HANDS ON EXPERIENCE

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P R E F A C E

This book illustrates scalable network design techniques for building large networks. It is presented in the form of a case study to provide a specific example of a set of customer requirements. The methodology represents a conservative and practical approach to network design and is by no means the only way of achieving the customer goals. In fact, the design philosophy used here is to keep things as simple and straightforward as possible and then to use the rich tools available in Cisco Packet tracer software to tune and tailor the network to achieve network optimization as traffic patterns and applications emerge. All the designs used here are possible with products and software. Experiencing heavy utilization on server segments and client subnets Current traffic flow patterns have not been characterized, but most of the traffic is assumed to be client server-based, with an increasing amount of cross-subnet traffic due primarily to Intranet Web applications. The following are taken into consideration while designing the networks.

- Ability to optimize the design based on measured traffic flow characteristic.
- Ability to increase the bandwidth in any part of the network using existing equipment .
- Connection to legacy networks during transition to the switched network
- Structured network growth with minimal infrastructure impact.

 Author(s)

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