

Course overview:

Windows 2003 Server Network & Active Directory Design

MCP exam: 70-297

(S514eng)



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Overview and objectives

This 5-day course provides students with the knowledge and skills necessary to plan, design and implement Microsoft Active Directory directory service and network infrastructure for a Windows Server 2003 environment. It is intended for systems engineers and network designers

This course prepares students for Microsoft Certified Professional exam: 70-294.

On this course, students will learn how to:

- Analyze the impact of Active Directory on the existing technical environment and the current administrative structure.

- Analyze the impact of the Active Directory design on interoperability and network requirements.

- Design the Active Directory infrastructure to meet the business and technical needs of an organization.

- Design the network services infrastructure (DNS, WINS, DHCP, and Remote Access) to meet the business and technical needs of an organization.

- Create a logical design that includes forest and domain infrastructures, authentication mechanisms, OU and Group Policy strategies, and a replication topology.

- Design a name resolution strategy that supports Active Directory, including a DNS strategy, delegation and security, and a WINS strategy.

- Design a network access strategy that includes remote access methods and policies, security for remote access users, authentication methods, and logging and auditing settings.

- Design an Active Directory implementation plan that includes a project plan, factors that will affect the size of the database, as well as the placement of domain controllers, global catalog servers, DNS service, and flexible operations master roles (FSMO).

- Design physical network structure that supports Active Directory, such as the networking and routing topologies, a TCP/IP addressing scheme, router placement, and the remote access infrastructure.



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Assessment stage I

- Assessing the technical environment • Service levels • Hardware and software deployments

Assessment stage II

- The current server infrastructure • Assessing DNS • Assessing the physical network • Assessing the impact of proposed designs

Designing the Active Directory infrastructure

- Designing the administrative model • Designing the forest • Designing the domain • Developing the OU model • Developing the replication design

Designing for network services

- Developing DNS designs • Designing for WINS • Designing a DHCP approach • Developing a remote access strategy

Designing the logical components

- Defining standards • Defining the forest structure, hierarchy, and naming strategy • Defining authentication mechanisms • Designing the OU model • Defining the Group Policy object approach • Defining replication topology

Name resolution

- DNS design • Delegation and security • WINS design

Remote access and address management

- Remote access service servers • IP address management and DHCP

Service sizing and placement

- Planning phase I: Requirements • Planning phase II: Implementation plan • Sizing and availability • Flexible single master operations roles

The physical design

- Networking and routing • Designing remote access infrastructures • Determining remote access sizing and availability

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