Training: Microsoft
MS-55152 Fundamentals of Active Directory

Microsoft Partner

TRAINING GOALS:

This one-day instructor-led class is intended for IT professionals and IT managers who work with Active Directory or supervise IT professionals that work with Active Directory. Additionally, IT professionals that work with products that integrate with Active Directory such as Exchange can also benefit. In this course, students learn how and why Active Directory was developed by Microsoft, the fundamental architecture, basic design, management, as well as security and fundamentals for cloud integration with services like Azure.

Audience Profile

This course is intended for both novice and experienced IT professionals, Network Administrators new to Active Directory, Help Desk Personnel, Network Support Personal, Desktop Support Personal, Managers that oversee IT personnel, Developers that create products that interact with Active Directory and Exchange Administrators.

At Course Completion

- Understand the industry standards used in Active Directory and their importance.
- Recognize the functionality of Domain Controllers and Active Directory Replication mechanisms.
- Understand Forest, Domain and OU structure.
- Recognize and understand the role of Active Directory Sites.
- Skills needed to determine Domain Controller Server versions, Forest and Domain Functional levels.
- Describe authentication Mechanisms in Active Directory NTLM and Kerberos.
- Optimize and maintain Group Policy Objects (GPO) used in Active Directory.
- Understand the functioning of Active Directory Partitions and the Global Catalog.
- Fundamental understanding of using Active Directory with Cloud Services like Federation Services and Azure.

CONSPECT:

- Principles of Active Directory
    - Development of Active Directory

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- What is X.500
- LDAP
- Active Directory Architecture
- NTLM and Kerberos
- Managing operating systems with GPOs, Workplace Join and InTune
- Active Directory Groups: Domain Local, Global and Universal
- Using and Managing Active Directory Domain Controllers
- Forest and Domain Functional Levels
- Introduction to Active Directory Partitions and the Global Catalog
- Basic Forest Structure and Design
- Basic Domain Structure and Design
- Basic OU Structure and Design

- Fundamentals of WAN management with Active Directory
  - Understanding AD Sites and WAN Traffic Management
  - Basic AD Sites and Logon Traffic
  - Introduction to AD Sites and Replication Traffic
  - Bridgehead Servers and Site Link Objects
  - Site Aware Applications
- Introduction to Active Directory Group Policy Objects
  - Introduction to Group Policy
  - Administrative Templates
  - Fundamental Concepts of GPO Scripts
  - Introduction to Creating and Using GPOs
  - Principles of Managing Multiple GPOs
  - Block, Enforce and Inheritance
  - GPOs and Active Directory Versions
  - Introduction to Controlling and Installing Software with GPOs, SRP and App Locker
- Principles of Active Directory Integration
  - Active Directory and “The Cloud”
  - User Principle Names, Authentication and Active Directory Federated Services
  - Conclusion, Additional Resources, Labs and Exercises

REQUIREMENTS:

- Basic understanding of networking concepts.
- Basic Windows knowledge.

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- Basic understanding of security concepts such as authentication and authorization

Difficulty level



CERTIFICATE:

Certificate of completing an authorized Microsoft training

TRAINER:

Microsoft Certified Trainer

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