

Course syllabus

CATEGORY

Windows Server, Linux courses

TRAINING FORMAT

In Bratislava or online with a lecturer

PRICE EXCL. VAT

365,00 €

PRICE INCL. VAT

448,95 €

including 23 % VAT

Windows Server - Active Directory - Daily Tasks of a System Administrator

Clear overview of course topics, training scope and key information.

You will learn how to effectively and securely administer a domain server - Active Directory controller under Windows Server. You will try options that will simplify your administrator life and set many elements centrally. After completing the course, you will never again experience stress and chaos from disorder in the structure of your domain - you will practice options for effective division according to multiple criteria. You will definitively end the suffering from inconsistency and lack of clarity of access rights - with best practices delivered directly from Microsoft, you will always have an overview of who has access to which resources.

COURSE CONTENT

01

Systems for Connecting (Grouping) a Set of Computers in a Local Network

Review of the Windows Workgroup concept Advantages and limitations of a workgroup, options for use

02

Domain Concept - Theory

Introduction of the concept as the core point of centralized administration of computers, users and settings Domain structure, domain tree and forest LDAP protocol and its use in and outside a domain Scenarios in which domains are not suitable, possible alternative domain solutions, e.g. on UNIX Operation Master type roles - what each role ensures and how to monitor which server performs it

03

Active Directory - Theory

Understanding the LSA and SAM concept on the Windows platform in connection with a domain, difference of this concept in a workgroup Suitable use scenarios Terms SID, GUID, OU

04

Working with Active Directory

Creating the first domain controller on an existing Windows Server installation Working with the Active Directory Users and Computers tool Concepts of creating OUs (organizational units) with regard to effective administration and domain scalability, best practices from practice, creating OUs in a test domain with regard to long-term sustainability and simplicity of further management and administration Objects in Active Directory - creating computers, servers, adding users - daily tasks of an administrator Properties of a domain user, setting initial password, password reset, limiting login in time, disabling a user, determining user membership and privileges, domain user account attributes Difference between local and domain user account, local vs domain administrator Setting a domain non-privileged user as domain administrator Concept of object (user) properties as part of the domain schema, options for extending properties - attributes with new elements and their setting in Active Directory Difference between Group and OU

05

Deploying Active Directory in Practice

Adding a computer to a domain Adding a new computer, conditions for adding a new computer to a domain Solving problems with domain connection on the workstation side adding a server to a domain

06

Managing Access to Network Resources Using the Active Directory Concept, Role-Based Access Control - RBAC

Types of user groups and their privileges, built-in groups Principles of secure group use - ALP, AGDLP and AGUDLP strategies Principles of secure group use in practice - on a shared network resource Discussion - how to avoid a security risk in this area

07

Long-Term Sustainability of a Managed Set of Computing Resources Using Active Directory Technology

Login scripts Basic command-line commands usable when solving problems in a domain

08

Group Policies GPO as a Powerful Tool for Centralized Setting of Managed Computers

Explanation of the term group policy, difference between user and computer policy Security policy of user accounts in a domain using Default Domain Policy Local policy Domain policy Difference between local and domain policy Order of application and policy inheritance Sites and links

09

Determining Currently Applied Group Policy Settings

Determining currently applied settings for a computer / user Determining currently applied settings from a client PC and from the Active Directory environment on Windows Server Restoring group policy rules Security measures using Group Policy Options for using domain and Group Policy: folder redirection, automatic connection of network drives, editing Windows registry, Roaming user profile Options for setting group policy for third-party applications, e.g. internet browser Publishing a printer

10

Delegating Active Directory Administration to Dispatch / Helpdesk

Case studies, discussion, method of adding delegation Determining who has delegation privileges

11

Discussion and Best Practices from Practice

Remote administration of Active Directory without the need to work on Windows Server Advanced information about the domain database - Basic overview of the domain database, recovery of deleted objects and related topics Remote administration of Active Directory from a computer that is not joined to the domain Importing a list of users from other sources Active Directory security Course conclusion - message for practice, final summary and discussion

This document serves as an informational overview of the course syllabus. Current dates, venue and availability are listed at Macrosoft.sk.

<https://www.macrosoft.sk/en/courses/windows-server-active-directory>