

REVIEW LESSON

MTA Course: 98-365 Windows Server® Administration Fundamentals

Lesson name: Understanding Active Directory 3.2

Topic: Understand organizational units (OUs) and containers

(One 50-minute class period)

File name: WinServerFund_RL_3.2

Lesson Objective

3.2: Understand organizational units (OUs) and containers. *This objective may include but is not limited to:* purpose of OUs; purpose of containers; delegation.

Preparation Details**Prerequisite student experiences and knowledge**

This MTA Certification Exam Review lesson is written for students who have learned about Windows® Server Administration fundamentals. Students who do not have the prerequisite knowledge and experiences cited in the objective will find additional learning opportunities using resources such as those listed in the Microsoft® resources and Web links at the end of this review lesson.

Students should have successfully performed a domain controller promotion.

Instructor preparation activities

- Make copies of Student Activity WinServerFund_SA_3.2
- If available, have one virtual machine:
 - Windows Server 2008® R2 configured as an Active Directory® Domain Controller

Resources, software, and additional files needed for this lesson

- WinServerFund_PPT_3.2
- WinServerFund_SA_3.2
- WinServerFund_SA_3.2_Key

Teaching Guide

Essential Vocabulary

lightweight directory access protocol (LDAP)—a network protocol designed to work on TCP/IP stacks to extract information from a hierarchical directory such as X.500. This gives users a single tool to search through data to find a particular piece of information, such as a user name, an e-mail address, a security certificate, or other contact information.

organizational unit (OU)—an Active Directory container that contains users, groups, computers, and other organizational units. An organizational unit cannot contain objects from other domains. An organizational unit is the smallest scope or unit to which you can assign Group Policy settings or delegate administrative authority. Using organizational units, you can create containers within a domain that represent the hierarchical, logical structures within your organization.

Lesson Sequence

Activating prior knowledge/lesson staging (Anticipatory Set: 10 minutes)

1. Student prompt (see PowerPoint® slide 3): On a sheet of paper, write the various ways organizational units can be structured.
2. Give students a few minutes to respond, allowing them to work until they have finished.
3. As time permits, call on a few students to report to the group with their responses.

Lesson activity (40 minutes)

1. Teacher Instruction (20 minutes)
 - Use the included PowerPoint slideshow to review organizational units.
 - At the end of the slideshow, ask the students to answer the Review Questions. Small group discussions or a “think-pair-share” approach may be beneficial.
 - Show the question and give the students 1 minute to process the question and come up with answers.
 - Then give the students 2 minutes to discuss answers with a partner.
 - Finally, have each pair of students share their answers with the whole group.
 - Repeat for each additional review question.
2. Guided Practice (20 minutes; see “Additional notes to the instructor” section regarding this assignment)
 - Students complete WinServerFund_SA_3.2, creating an OU and a nested OU via the command line and then delegating control to a created OU.
 - If time allows, you may review all or part of the worksheet discussing students’ responses to the questions.

Assessment/lesson reflection (10 minutes)

1. At the bottom of the activity page, have the students write any questions they have or topics about which they would like more assistance.
2. After class, look through the student responses and follow up with any student requiring additional help.

Microsoft resources and Web links

- **Microsoft TechNet: Active Directory Structure and Group Policy**
<http://technet.microsoft.com/en-us/library/cc978249.aspx>
- **Microsoft TechNet: Delegating Administration: Active Directory**
[http://technet.microsoft.com/en-us/library/cc778807\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc778807(WS.10).aspx)
- **Microsoft TechNet: Delegate Control of an Organizational Unit**
<http://technet.microsoft.com/en-us/library/cc732524.aspx>
- **Microsoft TechNet: Organizational Units: Active Directory**
[http://technet.microsoft.com/en-us/library/cc758565\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc758565(WS.10).aspx)

Suggested best practices

- Provide demonstrations of the same activities that the students will be doing in order to reinforce the concepts. Due to the various methods in which objects can be created, the instructor is encouraged to show the other options once, but stick with a single method thereafter. Students should be encouraged to use whichever method they prefer.
- Try to create a dialogue with the students regarding the different reasons why you would create various combinations of OU structures.
- Remind students that over-management of a directory structure can be counterproductive.
- Discuss that too many OUs can become confusing.

Additional notes to the instructor

- The worksheet asks students to create OUs through Active Directory Users and Computers (ADUC) and command line. The command line is dependent on how their domains are named. Be sure to remind the students to be conscious of the environment they are working in since educational resources are not written for each specific environment, and naming conventions and policies will certainly be different.