

## REVIEW LESSON

MTA Course: 98-367 Security Fundamentals  
Lesson name: Understand Network Security  
Topic: Understand Network Access Protection (NAP)  
(One 50-minute class period)  
File name: SecurityFund\_RL\_3.2

### Lesson Objective

**3.2:** Understand Network Access Protection. *This objective may include, but is not limited to:* purpose of NAP, requirements for NAP.

### Instructor preparation activities

- None

### Resources, software, and additional files needed for this lesson

- Windows Server<sup>®</sup> 2008 R2
- Windows<sup>®</sup> 7
- Windows XP SP3
- SecurityFund\_PPT\_3.2
- SecurityFund\_SA\_3.2
- SecurityFund\_SA\_3.2\_Key

### Teaching Guide

#### Essential Vocabulary

**Network Access Protection (NAP)**—a new platform and solution that controls access to network resources based on a client computer's identity and compliance with corporate governance policy.

**NAP clients**—uses system health agents (SHAs) to maintain and report system health and NAP enforcement clients to report the health of the computer for a specific type of network access or communication.

**NAP enforcement points**—Computers or network access devices that use NAP or can be used with NAP to require the evaluation of a NAP client's health state and provide restricted network access or communication.

**NAP health policy servers**—NAP enforcement points use a Network Policy Server (NPS) that is acting as a NAP health policy server to evaluate the health state of NAP clients, whether network access or communication is allowed, and the set of remediation actions that a noncompliant NAP client must perform.

**remediation servers**—consist of servers, services, or other resources that a noncompliant computer on the restricted network can access.

### **Lesson Sequence**

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

1. On a sheet of paper, identify how administrators can verify how NAP can provide a solution for the following common scenarios (see PowerPoint® slide 5):
  - a. Verifying the health state of roaming laptops
  - b. Verifying the health state of desktop computers
  - c. Verifying the health state of visiting laptops
  - d. Verifying the health state of unmanaged home computers
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, Slides 9 and 10)
  - Use the included PowerPoint presentation to review various types of deployment goals.
  - At the end of slides 9 and 10, ask the students to answer the question/activity associated with each point. Small group discussion approach may be beneficial. See the notes on slide 9 for additional information.
    - Show the question and give the students 1–3 minutes 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.
2. Guided Practice (20 minutes; Slide 11 and SecurityFund\_SA\_3.2 and Key)
  - Students complete the worksheet, identifying the different enforcement components and methods of NAP.
  - If time allows, you may review all or part of the worksheet, discussing student responses to the questions.

**Assessment/lesson reflection (10 minutes)**

1. The last slide in the PowerPoint facilitates this exercise (slide 12).
2. On the same paper they used for the Anticipatory Set, ask students to summarize “How does Network Access Protection work?”
  - Be sure to give ample time for students to write their summaries.
  - If time allows, pick a few students to read their summaries.
  - Show the 30 second video at:  
*<http://www.microsoft.com/windowsserver2008/en/us/nap-details.aspx>*
3. At the bottom of the page, tell students to write any questions they have or any topics about which they would like more assistance.
4. After class, look through the student responses and follow up with any student requiring additional help.

**Microsoft® resources and Web links**

- **TechNet: Introduction to Network Access Protection**  
*<http://technet.microsoft.com/en-us/network/cc984252.aspx>*
- **TechNet: Network Access Protection**  
*<http://technet.microsoft.com/en-us/network/bb545879.aspx>*
- **Microsoft.com: Network Access Protection FAQ**  
*<http://www.microsoft.com/windowsserver2008/en/us/nap-faq.aspx>*