

STUDENT ACTIVITY 5.1: IDENTIFY MAJOR SERVER HARDWARE COMPONENTS

MTA Course: 98-365 Windows Server® Administration Fundamentals

Topic: Identify Major Server Hardware Components

File name: WinServerFund_SA_5.1

Lesson Objective

5.1: Identify major server hardware components. This *objective may include but is not limited to:* memory; disk; processor; network; 32 and 64 bits; removable drives; graphic cards; cooling; power usage; ports.

Resources, software, and additional files needed for this lesson

- Internet access

Directions to the student

Answer the following questions on a separate sheet of paper. You may use the Internet as a resource.

Content

1. You need to purchase a rack enclosure to store the following:
 - a. Four 1U blade servers
 - b. One 2U uninterruptable power supply
 - c. One 1U keyboard/mouse-monitor
 - d. One 3U server
 - e. One 1U 48-port switch

What is the total height of the modules required to mount in the rack? 1U = 1.75”

What size rack enclosure cabinet would accommodate these equipment modules?
You can select a rack from the following website: <http://www.server-rack-online.com/server-racks.html>

2. What would the server processor requirements be for a server that will be running Windows® Server 2008® R2 with Exchange Server 2010?
3. What is the primary reason for a climate controlled data center?
4. What level(s) of the OSI reference model does a Network Interface Card operate at?
5. List 3 different server components that offer redundancy.
 - a.
 - b.
 - c.
6. What is the primary purpose of an uninterruptable power supply?