

STUDENT ACTIVITY 4.1_4.2: IDENTIFYING STORAGE TECHNOLOGIES AND UNDERSTANDING RAID

MTA Course: 98-365 Windows Server® Administration Fundamentals

Topic: Identify storage technologies; Understand RAID

File name: WinServerFund_SA_4.1_4.2

Lesson Objectives

4.1: Identify storage technologies. *This objective may include but is not limited to:* advantages and disadvantages of different storage types; local (SATA, SCSI, IDE); NAS; SAN; fibre channel; iSCSI; NFS; FC HBA and FC switches; iSCSI hardware.

4.2: Understand RAID. *This objective may include but is not limited to:* RAID 0, RAID 1, RAID 5, RAID 10 and combinations; hardware and software RAID.

Resources, software, and additional files needed for this lesson

- Students should have access to the Internet

Directions to the student

Answer the following questions. You may use the Internet as a resource.

Content:

1. What protocol does iSCSI use to send SCSI commands?
2. What is a benefit of iSCSI over fiber channel?

3. You are tasked with configuring a RAID 5 solution. You have 5 hard drives at your disposal.

Drive	Size
1	50 GB
2	120 GB
3	72 GB
4	500 GB
5	72 GB

- a. What is the total usable storage available in the array after RAID 5 is configured using these 5 hard drives?
4. What is a benefit of a Network Attached Storage over a Storage Area Network?
5. What is the minimum number of drives required to configure RAID 1?
6. What is another name for RAID 5?
7. You have 5 identical hard drives. You want to implement a RAID 10 solution. What would be required in order to accomplish this?