

Week #7 – SAMBA

Overview of the week's objectives

The Windows operating system has a strong market share in home and business environments. Windows file sharing and accessibility options are easy to implement. The simplicity of the Windows system allows even a novice computer user to share files from a local host or browse and access files from a remote server.

Like the Windows system, Linux has a file sharing and access tool called SAMBA that provides various capabilities including printing through the TCP/IP protocol.

In this lesson, you will explore SAMBA and the capabilities it offers to Unix and Windows-based systems. SAMBA services are frequently installed on home and business computers. So understanding its use and implementation is necessary for all Linux administrators.

Please refer to all “PREVIOUS WEEK’s OVERVIEWS” for details / advice relating to, or concerning, each of the tasks detailed in the remainder of this overview. You are responsible for recommendations or instructions noted in them!

TODO List

Please refer to all previous “Week’s Overview PDFs” for details / advice about each of the tasks detailed in the remainder of this overview. While we focus on instructions specific to this week’s material herein, previous instructions still apply.

Learning Activity			Time in hours		Points
			Expected	Spent	
Reading Assignments	O4L5	Online Module Guides & Videos	2		
Practice Assignments	O4L5-PQ	Taking Practice Quizzes	1		
	W7-PA	Working on PAs & Participating to PA forums	8		
Graded Assignments	W7-GQ	Taking Graded Quiz	1		2
		Participating to Discussion forums			1
			12		3

Task #1 – Reading Assignments

You will find one “[online module guide](#)” document in this week’s folder per module.

Refer to all previous “Week’s Overview PDFs” for detailed instructions on how to use [online module guides](#), [practice quizzes](#) and our [support forum](#) while working on this task.

Task #2 – Practice Assignments

Refer to “ALL PREVIOUS WEEK’s Overview PDF” files for detailed instructions applying to all Practice Assignments.

These activities were designed to help you think critically about the topics covered in this lesson and to assess whether your knowledge and application of the content meets the stated objectives. You will need to research each topic and complete the assignment as instructed. Do not rely only on the contents of this lesson or on Wikipedia to complete these assignments.

PA #1 : Lab – Samba Virtual Installation Timer (C4L5A1)

Be prepared to time yourself for the following tasks. These labs will require a Windows host for connecting and configuration.

1. Download and install SAMBA/SWAT on a fresh Ubuntu Virtual installation. Time yourself on how long it takes to do the installation.
2. Download and install Samba/SWAT on a fresh Fedora Virtual installation. Time yourself on how long it takes to do the installation.

Submit a short summary via email to your instructor on your installation process in steps 1 and 2.

Make sure to note any complications you encountered and any major differences or similarities between the two installations.

Task #3 – Use the “Support forum”

Refer to all previous “Week’s Overview PDFs” for detailed instructions applying to all discussion forums assignments.

PA #2 : Forum – Replacing Windows File/Print Server with Linux (C4L5F1)

Research the cost of installing a Windows-based File/Print server. As a guide, think about a small company with 250 employees that has five different departments—Sales, Human Resources, Research/Development, Accounting, and Engineering.

You will need a dedicated server to provide the file/print services. The existing Windows-based network uses 200 client computers but not all the running applications are 100% Windows dependent.

Discuss deploying the same services on a Linux based platform. What costs would be different and what costs would be the same?

Send a proposal to your instructor outlining the budget requirements for your design.

PA #3 : Forum – Difference between Host Name and NetBIOS Name (C4L5F2)

Research and discuss the differences between host names and Netbios names. Think of an example where each name would be used in a realistic situation.

Why would network administrators not simplify their duties by making both the host name and Netbios names the same? Could each name be the same? If so, provide a practical example.

PA#4 : Forum – Use of Samba (C4L5F3)

The company in which you are now employed does research on new technologies that could lead to very high profits in the future. The company consists of several departments and has over 300 employees.

Is Samba a service you would use for your Research/Development and Engineering Departments? Why or why not?

Discuss the possibilities or what restrictions may be required for Samba services?

PA #5 : Forum – Samba and SMB Services (C4L5F4)

You have been hired to work as the primary technician for XYZ Products, Inc. Your boss, Mr. Meany, would like to start a new company in the existing office space. Being as frugal as he is, Mr. Meany wants to use as much of his existing infrastructure as possible.

He has asked that you setup all of the new computers for the new company on their own subnet. You noticed that XYZ Products has both Windows and Linux based systems that share different resources.

Discuss if you can use Samba and SMB services over the existing infrastructure. Prepare a 2 page summary explaining why this cannot be done or how it could be done based on your discussion with your team members.

PA #6 : Forum – Compare Windows-based sharing and Linux-based Samba services (C4L4F4)

Discuss the differences and similarities between Windows-based sharing and Linux-based Samba services.

Make a list of each and discuss which is:

- A: Easier to install
- B: Least expensive to use
- C: Easier to configure
- D: Easier to explain/train users
- E: Most secure
- F: Able to provide the most functionality

Task #4 – Graded quizzes

Refer to all previous “Week’s Overview PDFs” and “ALL PREVIOUS WEEK’s Overview PDF” for detailed instructions applying to all graded quizzes.