Lab - Researching Peer-to-Peer File Sharing

Objectives

Part 1: Identify P2P Networks, File Sharing Protocols, and Applications

Part 2: Research P2P File Sharing Issues

Part 3: Research P2P Copyright Litigations

Background / Scenario

Peer-to-peer (P2P) computing is a powerful technology that has many uses. P2P networks can be used to share and exchange files, and other electronic materials.

The use of P2P networks to upload, download, or share copyrighted material, such as movies, music, and software, can violate the rights of copyright owners. In the P2P file-sharing context, infringement may occur when one person purchases an authorized copy and then uploads it to a P2P network to share with others. Both the individual who makes the file available and those making copies may be found to have infringed the rights of the copyright owners and may be violating copyright law.

Another problem with P2P file sharing is that very little protection is in place to ensure that the files exchanged in these networks are not malicious. P2P networks are an ideal medium for spreading malware, such as computer viruses, worms, Trojan horses, spyware, adware, and other malicious programs.

In this lab, you will research available P2P file sharing software and identify issues that can arise from the use of this technology.

Required Resources

Device with Internet access

Part 1: Identify P2P Networks, File Sharing Protocols, and Applications

In Part 1, you will research P2P networks and identify popular P2P protocols and applications.

Step 1: Define P2P networking.

a. V	۷hat	is a	P2P	network?
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b. Identify at least two advantages that P2P provides over client-server architecture.

c. Identify at least two disadvantages of P2P networks.

Step 2: Identify P2P file sharing protocols and applications.

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	a.	Identify at least two P2P file sharing protocols used today.
	b.	Identify at least two popular P2P file sharing applications available today.
	C.	What P2P file sharing protocol is attributed to producing the most P2P traffic on the Internet today?
Pa	rt	2: Research P2P File Sharing Issues
		Part 2, you will research P2P copyright infringement and identify other issues that can occur with P2P file aring.
Ste	p 1	: Research P2P copyright infringement.
	a.	What does the acronym DMCA stand for and what is it?
	b.	Name two associations that actively pursue P2P copyright infringement?
	C.	What are the penalties for copyright infringement?
	d.	What are the file sharing copyright laws in your area? Are they more strict or less strict than those in other areas of the world? How aggressively do enforcement agencies in your area pursue those who share copyrighted material?

Step 2: Research other P2P issues.

- a. What types of malware can be transported through P2P file sharing?
- b. What is Torrent poisoning?
- c. How could identity theft occur through the use of P2P file sharing?

Part 3: Research P2P Copyright Litigations

In Part 3, you will research and identify historical legal actions that have occurred as a result of P2P copyright infringement.

- a. What was the first well-known P2P application that specialized in MP3 file sharing and was closed by court order?
- b. What was one of the largest P2P file sharing lawsuits ever?

Reflection

How can you be sure that the files you are downloading from P2P networks are not copyrighted and are safe from malware?