Branch/Semester	Bsc (IT Cloud & Application Development) / II
Subject Name:	Routing & Switching Technology
Subject Code:	05CA0201
Assignment:	Assignment No. 6 (Fundamentals of Ethernet LANs & Cisco IOS)
Due Date:	08/03/2025
Faculty Name:	Prof. Rishabh Singh

1.	**Password Recovery and Forensic Analysis:**
	
	• **Scenario:** a network administrator has forgotten the enable secret password, and there is a suspicion of unauthorized access to the router.
	
	• **Task:**
	
	    o Perform the password recovery procedure.
	
	    o After gaining access, perform a forensic analysis of the router's logs and configurations to determine if there has been unauthorized access.
	
	    o Document all findings, and create a plan to strengthen the router's security posture.

2.	Discuss the password policies in Cisco devices.
3.	Explain the concept of Role-Based Access Control (RBAC) and its importance in network security.

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