ANALYSIS OF NETWORK HARDENING

Security hardening task	Description
Baseline configurations	A documented set of specifications within a system that is used as a basis
	for future builds, releases, and updates.
Configuration checks	Updating the encryption standards for data that is stored in databases.
Disabling unused ports	Ports can be blocked on firewalls, routers, servers, and more to prevent
	potentially dangerous network traffic from passing through.
Encryption using the	Rules or methods used to conceal outgoing data and uncover or decrypt
latest standards	the incoming data.
Firewall maintenance	Firewall maintenance entails checking and updating security
	configurations regularly to stay ahead of potential threats.
Hardware & software	Ensures that all old hardware is properly wiped of all data and disposed
disposal	of.
Multifactor	A security measure which requires a user to verify their identity in two or
authentication (MFA)	more ways to access a system or network. MFA options include a
	password, pin number, badge, one-time password (OTP) sent to a cell
	phone, fingerprint, and more.
Network access	Network access privileges involves permitting, limiting, and/or blocking
privileges	access privileges to network assets for people, roles, groups, IP addresses,
	MAC addresses, etc.
Network log analysis	The process of examining network logs to identify events of interest.
Password policies	The National Institute of Standards and Technology's (NIST) latest
	recommendations for password policies focuses on using methods to salt
	and hash passwords, rather than requiring overly complex passwords or
5 . 1 . 1 .	enforcing frequent changes to passwords.
Patch updates	A software and operating system (OS) update that addresses security
Donatustian tost lass	vulnerabilities within a program or product.
Penetration test (pen	A simulated attack that helps identify vulnerabilities in systems, networks,
test) Port filtering	websites, applications, and processes.
FULL HILLERING	A firewall function that blocks or allows certain port numbers to limit unwanted communication.
Removing or disabling	Unused applications and services can become a point of vulnerability
unused applications and	because they are less likely to be maintained or updated with new
services	security features.
Server and data storage	Server and data storage backups help protect data assets from being lost.
backups	Backups can be recorded and stored in a physical location or
	uploaded/synced to a cloud repository.
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