

Task 5: Reflect on Security Best Practices

1. Additional Security Measures for Complex Networks:

- Network Segmentation: Dividing the network into zones to limit access and reduce attack surface.
- Intrusion Detection and Prevention Systems (IDPS): Actively monitor traffic and block potential threats.
- Access Control Policies: Use Role-Based Access Control (RBAC) to restrict access based on user roles.
- VPNs: Secure remote access through encrypted virtual private networks.
- Regular Security Audits: Conduct periodic checks and vulnerability scans.
- Multi-Factor Authentication (MFA): Add extra security layers for user logins.
- Log Management: Use centralized logging systems to monitor and respond to threats in real time.

2. Educating Others on Network Security:

Educating others about network security starts with awareness. I would explain the real-world risks, like identity theft or data breaches, using relatable examples. I'd teach simple practices such as using strong passwords, enabling two-factor authentication, and being cautious of phishing links. Through workshops or informal sessions, I would demonstrate how even basic steps-like updating software and avoiding public Wi-Fi for sensitive tasks-can make a big difference. Empowering people with knowledge transforms them from potential vulnerabilities into the first line of defense.