TUGAS

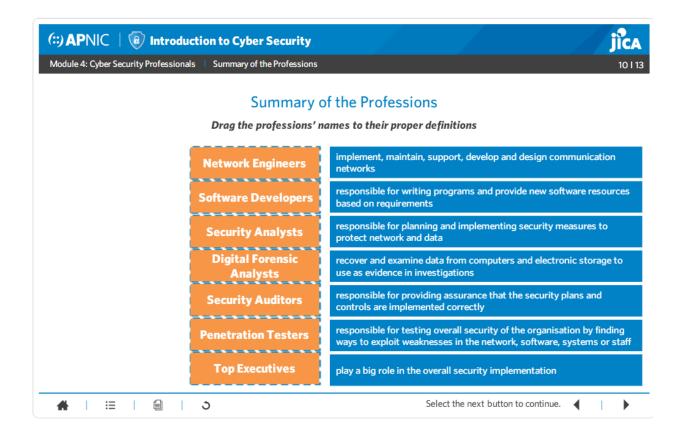# KEAMANAN JARINGAN

"PROFESI IT"

Nama   : Mega Putri Rahmawati Darta

Kelas   : D4 LJ IT B

NRP   : 3122640038

POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

TAHUN AJARAN 2022/2023

Summary of the Professions

Drag the professions' names to their proper definitions

Profession	Definition
Network Engineers	implement, maintain, support, develop and design communication networks
Software Developers	responsible for writing programs and provide new software resources based on requirements
Security Analysts	responsible for planning and implementing security measures to protect network and data
Digital Forensic Analysts	recover and examine data from computers and electronic storage to use as evidence in investigations
Security Auditors	responsible for providing assurance that the security plans and controls are implemented correctly
Penetration Testers	responsible for testing overall security of the organisation by finding ways to exploit weaknesses in the network, software, systems or staff
Top Executives	play a big role in the overall security implementation

Select the next button to continue.

Suitable profession and dream profession

Based on the knowledge that I currently have, I feel that of the above professions that best suit me and become my dream profession is a software developer. The following is a further explanation about software developers :

a. Software developer job
   1. Modify software to fix bugs, adapt new hardware, and to improve performance
   2. Develop and direct software system testing and validation procedures, programming, and documentation
   3. Collaborate with system analysts, programmers, and other workers to design systems and applications
   4. Analyze user requirements and software requirements to determine design feasibility
   5. Design, develop, and modify software systems using scientific analysis and mathematical models
   6. Maintenance of existing systems by monitoring and correcting errors
   7. Meet clients and project managers to design and build new systems
   8. Designing, writing, reading, testing, and fixing code for new software
   9. Documenting the latest updates for each software

b. Required skills
   1. Able to master several programming languages required
   2. Problem solving ability
   3. Cooperation
   4. Work is not half measures
   5. Detail oriented
   6. Understanding of software security

c. Career path
   Almost all companies today use software systems. This is what makes a software developer able to work in various industries. The software developer career path starts with becoming a senior software developer, after that you can choose to take a computer architect or engineering manager. After becoming a senior software developer, you can immediately become an engineering manager. You can even become a software architect or director or project manager.

d. Software Developer Certification
   Other certifications that will help you get this job include Capability Maturity Model Integration, Microsoft Certified Systems Engineer, and Microsoft SQL Server, as well as:
   1. C++ CERTIFICATION, C++ Institute:
      C Programming Language Certified Association (CLA)
      C Certified Professional Programmer (CLP)
      Certified Senior Programmer (CLS)
      C++ Certified Associate Programmer (CPA)
      C++ Certified Professional Programmer (CPP)
      C++ Certified Senior Programmer (CPS)
   2. IEEE PROFESSIONAL SOFTWARE DEVELOPER CERTIFICATION (PSD)
   3. IEEE PROFESSIONAL SOFTWARE ENGINEERING PROCESS MASTER CERTIFICATION (PSEPM)
   4. IEEE SOFTWARE ENGINEERING MASTER CERTIFICATION (PSEM)
   5. MICROSOFT CERTIFIED SOLUTIONS DEVELOPER (MCSD)