

Network Security Layers

Build Content Assessments Tools Partner Content

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Introduction and Procedures

Enabled: Statistics Tracking

This topic area will demonstrate competency in various security layers needed to protect the network through network operations, risk reduction, physical security, personnel security, operating system security, software security, and database security.

A student must achieve a minimum of 80% of the total points allowed for this competency. That equates to 480 points out of 600 points. How this score is calculated can be found as descriptions under the various topics. Do not assume that each task is successfully accomplished if 80% is achieved for that particular task. Take notice of the variances.

Completion of the following tasks are required after completing Network Concepts and Network Security Basics:

1. **Network Security Layers Student Project Assessment:** (Complete ALL 4 deliverables :1, 2,3A,3B,4).
2. **Network Security Layers Tasks** (Click on the folder name and the assignments are given within that folder. Please read the background information prior to starting this.)
3. **Network Security Layers Competency Assessment #1** (An assessment using multiple choice, and short answer and essay type questions; student gets two attempts to achieve the required score.)



Required Competencies

Enabled: Statistics Tracking

- Implement a hardware and software configuration responsive to an identified scenario.
- Differentiate among various techniques for making a computer network secure.
- Differentiate among strategies for business continuity provisioning of IT resources at the enterprise level.
- Modify a system to improve data confidentiality or regulatory compliance.
- Summarize the security implications and risks for distributed IT systems.
- Use documentation or a knowledge base to resolve a technical challenge in an identified computing scenario.



Digital Learning Resources

Enabled: Statistics Tracking

These learning resources will help you learn areas of network communications, security, and authentication.

This folder contains digital learning resources that cover the competency areas.

- It is recommended that the learner review this information prior to taking the two assessments.
- If required scores are not earned, the learner should review this material before attempting the assessments again



Network Security Layers Competency Tasks

Enabled: Adaptive Release, Statistics Tracking

Risk Analysis and IT Security Layer Design (100 points: 80 points at 80%)



Network Security Layers Student Project Assessment

Enabled: Adaptive Release

Details on the construction and performance upon a server installed in a virtual environment. (Total 250 points of 200points at 80%)



Network Security Layers Competency Assessment #1

Enabled: Adaptive Release

300 points. Consists of multiple choices, and thought provoking scenarios. Successful completion is 240 points (80%).



Network Security Layers

Enabled: Adaptive Release

Completion of the following tasks are required after completing Network Concepts and Network Security Basics:

1. Complete all 5 parts of the Network Security Layers Student Project Assessment and earn at least 80% on each
2. Complete all 3 Network Security Layers Tasks and earn at least 80% on each

K2W Cyber Security CSC Template (LF298.CyberSecurity.Template.K2W)

K2W Cyber Security

Support Team

Cybersecurity Competition

Web Links

Network Concepts

Network Security Basics

Attacks & Crimes

Access & Authentication

Firewalls & E-Commerce

Network Security Layers

Legal Topics

Weekly Interaction

Competency Progress

K2W Website

Library Help

LFCC Help & Support

Course Management

Control Panel

My Files

Course Tools

Evaluation

Grade Center

Users and Groups

Customization

Packages and Utilities

Help

Quick Unenroll

Lord Fairfax Community College (LFCC)

173 Skirmisher Lane

Middletown, VA 22645-1745

LFCC.edu



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