

INTRODUCTION

Many organizations have legacy systems that are no longer meeting the organization's requirements with regards to business processes and security. Laws such as the Health Insurance Portability and Accountability Act (HIPAA) require higher security standards since these laws were implemented, and new technology is now available that was not an option previously. A LAN administration and security manager may need to design a new system that will increase security and automate business processes more efficiently than the current legacy system.

Using the attached "Business Systems Design Report Template," you will design and document a multilevel target security architecture to address cybersecurity threats to the Healthy Body Wellness Center (HBWC). You will also use the "Business Systems Design Report Template" to conduct, record, and audit your design, and provide justification to defend each aspect of your multilevel network architecture. You will then complete the attached "DREAD Workbook" and submit it as a separate attachment.

The "Healthy Body Wellness Center Case Study" and "Healthy Body Wellness Center Security Assessment Report" are attached for your reference; you may also refer to the "Business Requirements Document Template" you created in Task 1 to assist in the completion of this task.

SCENARIO

As the newly promoted LAN administration and security manager for Healthy Body Wellness Center's (HBWC) IT Department, you are tasked with designing a multilevel target security architecture using the "Business Requirements Document Template" you created in Task 1. Then you will need to conduct a DREAD analysis on your multilevel architecture design.

The technical requirements and specifications for the multilevel target security architecture should be based on the business, functional, and security requirements you documented in the "Business Requirements Document Template." The target multilevel architecture should include the Small Hospital Grants Tracking System (SGHTS), payroll system, and research data that meet the standards and regulations of the National Institute of Health (NIH) and the federal government, including HIPAA and industry best practices.

REQUIREMENTS

Your submission must be your original work. No more than a combined total of 30% of a submission can be directly quoted or closely paraphrased from sources, even if cited correctly. Use the report provided when submitting your task as a guide.

You must use the rubric to direct the creation of your submission because it provides detailed criteria that will be used to evaluate your work. Each requirement below may be evaluated by more than one rubric aspect. The rubric aspect titles may contain hyperlinks to relevant portions of the course.

Tasks may not be submitted as cloud links, such as links to Google Docs, Google Slides, OneDrive, etc., unless specified in the task requirements. All other submissions must be file types that are uploaded and submitted as attachments (e.g., .docx, .pdf, .ppt).

- A. **Current Systems:** Summarize the systems currently being used at the Healthy Body Wellness Center using details from attached case study and assessment report. (HBWC) You may use the information you provided in the BRD template from your Task 1 submission. Record your summary in the "Current Systems" section of the attached "Business Systems Design Report Document."
- B. **Goals, Objectives, and Rationale for New System:** Outline the purpose, goals, objectives, and rationale for the proposed system, including a clear statement of the problem using the information provided from the "Healthy Body Wellness Center Case Study" and the "Healthy Body Wellness Center Security Assessment Report" to justify your claims. Record your responses in each subsection of the "Goals, Objectives, and Rationale for New or Significantly Modified System" section of the attached "Business Systems Design Report Document."

- C. Factors Influencing Technical Design: Explain the relevant standards, assumptions, dependencies, constraints, and design goals that influence the technical design of the proposed new system. Record your responses in the "Factors Influencing Technical Design" section of the attached "Business Systems Design Report Template."
- D. Proposed System: Determine the necessary requirements to achieve the proposed system and its associated technical design, including the multilevel architecture specifications and design. Include *all* required tables and diagrams as part of your submission. Record your responses in *all* subsections of the "Proposed System" section of the attached "Business Systems Design Report Document."
- E. DREAD Analysis: Conduct an analysis of your multilevel architecture using the attached "DREAD Workbook." Record your results in the "DREAD Workbook" and include the workbook as an attachment. Your workbook should include a minimum of ten threats.
- F. Analysis of Proposed System: Summarize your findings from the DREAD analysis by prioritizing and describing the top **five** risks identified in the "Listing of Threats" worksheet, including mitigation, risk acceptance, and justification for your decisions. Record your responses in the "Analysis of the Proposed System" section of the attached "Business Systems Design Report Document."
- G. Acknowledge sources, using in-text citations and references, for content that is quoted, paraphrased, or summarized.
- H. Demonstrate professional communication in the content and presentation of your submission.

File Restrictions

File name may contain only letters, numbers, spaces, and these symbols: ! - _ . * ' ()

File size limit: 200 MB

File types allowed: doc, docx, rtf, xls,xlsx, ppt, pptx, odt, pdf, txt, qt, mov, mpg, avi, mp3, wav, mp4, wma, flv, asf, mpeg, wmv, m4v, svg, tif, tiff, jpeg, jpg, gif, png, zip, rar, tar, 7z

RUBRIC

A: CURRENT SYSTEMS

NOT EVIDENT

The submission does not include a summary of the current systems at Healthy Body Wellness Center (HBWC).

APPROACHING COMPETENCE

The submission summarizes the systems currently being used at HBWC, but either the information provided contains errors, or details from the case study and security assessment report are not provided, or the summary is not recorded in the "Current Systems" section of the "Business Systems Design Report Document."

COMPETENT

The submission accurately summarizes the systems currently being used at the Healthy Body Wellness Center (HBWC) using details from the case study and security assessment report. The summary is recorded in the "Current Systems" section of the "Business Systems Design Report Document."

B: GOALS, OBJECTIVES, AND RATIONALE FOR NEW SYSTEM

NOT EVIDENT

The submission does not outline a description of the purpose, goals, objectives, and rationale for the proposed new system.

APPROACHING COMPETENCE

The submission outlines the purpose, goals, objectives and rationale for the proposed new system, but the information provided contains inaccuracies or does not use details from the case study or security assessment report to substantiate claims. Or not all responses are recorded in the "Goals, Objectives, and Rationale for New or Significantly Modified System" section of the "Business Systems Design Report Document."

COMPETENT

The submission accurately outlines the purpose, goals, objectives, and rationale for the proposed new system, using details from the case study and security assessment report to substantiate claims. All responses are recorded in the "Goals, Objectives, and Rationale for New or Significantly Modified System" section of the "Business Systems Design Report Document."

C: FACTORS INFLUENCING TECHNICAL DESIGN

NOT EVIDENT

The submission does not include an explanation of relevant standards, assumptions, or dependencies

APPROACHING COMPETENCE

The submission explains standards, assumptions, or dependencies based for the proposed system, but the information provided is not related to the case study, or does not include constraints or design goals. Or not all responses are recorded in the "Factors Influencing Technical Design" section of the "Business Systems Design Report Document."

COMPETENT

The submission accurately explains relevant standards, assumptions, and dependencies based on the proposed system, including constraints and design goals. All responses are recorded in the "Factors Influencing Technical Design" section of the "Business Systems Design Report Document."

D: PROPOSED SYSTEM

NOT EVIDENT

COMPETENT

The submission does not include the proposed system.

APPROACHING COMPETENCE

The submission provides the proposed system's requirements and associated architectural design documentation, but the information provided contains inaccuracies or does not reflect the proposed design and address the requirements represented in the case study and the security assessment report. Or not all responses are recorded in the "Proposed System" section of the "Business Systems Design Report Document."

The submission provides accurate representation of the proposed systems requirements and associated architectural design documentation. All information provided reflects the proposed design and addresses requirements represented in the case study and the security assessment report. All responses are recorded in the "Proposed System" section of the "Business Systems Design Report Document."

E:DREAD ANALYSIS

NOT EVIDENT

The "DREAD Workbook" is not attached.

APPROACHING COMPETENCE

The submission contains the attached "DREAD Workbook," but it is not complete, or it does not include the prioritized list of a minimum of ten threats or risks to both hardware and applications, or the information provided contain inaccuracies.

COMPETENT

The submission contains the completed attached "DREAD Workbook" that includes an accurate prioritized list of a minimum of ten threats or risks to both hardware and applications.

F:ANALYSIS OF PROPOSED SYSTEM

NOT EVIDENT

The submission does not include a prioritization of the top five risks identified in the DREAD analysis.

APPROACHING COMPETENCE

The submission includes the prioritization of the top five risks identified in the DREAD analysis, but the description of each risk or the associated risk

COMPETENT

The submission includes the prioritization of the top five risks represented in the DREAD analysis with a description of each risk, and the associated risk mitigation or acceptance for

mitigation contains errors, or acceptance for each risk contains errors, or the mitigation or acceptance of the risks are not supported with details to justify the information provided. Or, all responses are not recorded in the "Analysis of the Proposed System" section of the "Business Systems Design Report Document."

each risk. The mitigation or acceptance of the risks are supported with details to justify the information provided. All responses are recorded in the "Analysis of the Proposed System" section of the "Business Systems Design Report Document."

G: SOURCES

NOT EVIDENT

The submission does not include both in-text citations and a reference list for sources that are quoted, paraphrased, or summarized.

APPROACHING COMPETENCE

The submission includes in-text citations for sources that are quoted, paraphrased, or summarized and a reference list; however, the citations or reference list is incomplete or inaccurate.

COMPETENT

The submission includes in-text citations for sources that are properly quoted, paraphrased, or summarized and a reference list that accurately identifies the author, date, title, and source location as available.

H: PROFESSIONAL COMMUNICATION

NOT EVIDENT

Content is unstructured, is disjointed, or contains pervasive errors in mechanics usage, or grammar. Vocabulary or tone is unprofessional or distracts from the topic.

APPROACHING COMPETENCE

Content is poorly organized, is difficult to follow, or contains errors in mechanics, usage, or grammar that cause confusion. Terminology is misused or ineffective.

COMPETENT

Content reflects attention to detail, is organized, and focuses on the main ideas as prescribed in the task or chosen by the candidate. Terminology is pertinent, is used correctly, and effectively conveys the intended meaning. Mechanics, usage, and grammar promote accurate interpretation and understanding.

SUPPORTING DOCUMENTS

[Business_Systems_Design_Report_Template.docx](#)

[DREAD Workbook.xlsx](#)

[Healthy Body Wellness Center Case Study.docx](#)

[Healthy Body Wellness Center Security Assessment Report.docx](#)