Project Part 3

Final Project: Network Security Plan

Scenario

You have been working as a technology associate in the information systems department at Corporation Techs for three months now. You have conducted a network survey and developed a basic network design intended to provide security for private network resources and publically exposed Web services.

Your manager specified that all information transferred between the sales team in the field and the organizational servers must be protected against snooping. The manager also wants the secured reporting site to be available only through the organization's private network so that an outsourced network-based intrusion detection system (NIDS) service can log all connections.

Tasks

You need to recommend a network design and identify hardening strategies intended to meet the requirements. To do so, you must:

1. Access the PCAP and other scan data for this project.
2. Conduct research and determine the best network design to meet the stated requirements.
3. Research hardening strategies and identify recommended mitigation strategies for identified vulnerabilities.
4. Identify mechanisms for secure network access by remote users, both in terms of secure Web access as well as reporting access conducted using the private network.
5. Develop a network security plan including network realignment, hardening practices, and policies for remote resource access.
6. Identify expectations from recommended changes and provide justification for each recommendation in simple language so that primary stakeholders are able to understand it.
7. Create a professional report detailing the information above, presented as a recommendation for a network security realignment project for Corporation Techs. Include persuasive justification and measurable expectations as part of this recommendation.

Write the network design results as detailed in the instructions above. Your plan should be made using a standard word processor format compatible with Microsoft Word.

Evaluation Criteria and Rubrics

Evaluation Parameters	Percentage Weight
Did the student demonstrate an understanding of the competencies covered in this course?	**30**
Did the student produce a network design that will fulfill the stated requirements, including VPN and SSL access?	**20**
Did the student identify effective network hardening strategies for identified vulnerabilities?	**20**
Did the student provide a persuasive justification and measurable expectations for the recommended changes?	**20**
Did the student create a professional, well-developed report with proper grammar, spelling, and punctuation?	**10**
Total	100%