Triad Security

Triad has a dedicated network system used to access internet services. All staff have been given access to training for using internet services though the Triad dedicated network.

Triad has around 40 staff members who use the network regularly.

Hackers have attacked Triad’s network servers and personal and business data was affected. Triad was able to recover the data and business activities have been restored to normal.

Before the attack some cybersecurity policies existed at Triad:

* Always connect using secure Wi-Fi
* Protect sensitive data
* Talk to the IT department if you notice anything unusual
* Avoid opening emails from an unauthorised address

Triad is now aware that a cyber attack can happen in multiple ways. The most commonly faced cybersecurity risks at Triad are:

* Phishing attacks
* Hacking
* Ransomware

Triad is wanting to implement cybersecurity measures to prevent future attacks by:

Training staff to avoid unsolicited emails that request a response

Installing a comprehensive anti-virus system

Installing spam filters for all messages and emails

Installing a network firewall

Implementing policies to ensure that data is accessed securely.

Triad needs to develop cybersecurity policies and procedures to address the threat of the most commonly faced cybersecurity risks.

You have joined the staff as an IT expert and policy developer. You need to review the existing Triad cybersecurity policies and complete the activities below.

**Activity 1. Report on organisation threats and trends associated with cyber security.**

Your report needs to include:

* Introduction
* Current cybersecurity threats
* Ways to deal with phishing attacks, ransomware, and hacking
* Cybersecurity trends
* Existing cybersecurity practices at Triad
* Recommendations for Triad.

Your report should be between 200-500 words

|  |  |
| --- | --- |
| Cybersecurity threats and trends | |
| Introduction: | |
| Current cybersecurity threats: | |
| Techniques to resolve phishing attacks |  |
| Techniques to resolve hacking |  |
| Techniques to resolve ransomware |  |
| Current trends in cyber security: | |
| Existing cyber security practices at Triad Security: | |
| Conclusion: | |

**Activity 2. Develop cybersecurity policies and procedures for Triad cybersecurity**.

Based on the information you have compiled in your report, develop a password protection policy and a data protection policy using the following templates:

|  |  |
| --- | --- |
| Password Protection Policy | |
| Purpose |  |
| Resources |  |
| Relevant personnel |  |
| Relevant legislation |  |
| Password Protection Policy (50-100 words) | |

|  |  |
| --- | --- |
| Data Protection Policy | |
| Purpose |  |
| Resources |  |
| Relevant personnel |  |
| Relevant legislation |  |
| Password Protection Policy (50-100 words) | |

**Activity 3. Conduct a meeting with your manager to discuss your report (Activity1) and the new policies you have developed (Activity2).**

You will need to highlight any legislation that applies to each policy and how the policy meets the organisational requirements. You also need to highlight cyber security threats which may impact organisational operations and provide solutions to resolve those threats.

In the meeting you need to discuss the following points:

Discuss policies and procedures developed in Question 2

Discuss the report prepared in Question 1

Review current cybersecurity threats facing Triad

Discuss improvements needed in policies and procedures

You will conduct the meeting with a classmate, who will play the role of your manager. Meeting time approx. 7-10 minutes.

Complete the following meeting template and write the information related to the meeting discussion

|  |  |  |  |
| --- | --- | --- | --- |
| Meeting of Triad and Policy Developer | | | |
| Meeting Objective: | | | |
| Attendees: | | | |
| Venue: | | | |
| Date: | | | |
| Minutes of Meeting: | | | |
|  | Matters Discussed | Actions Suggested | Target data and personnel involved |
| Discuss policies and procedures |  |  |  |
| Discuss report |  |  |  |
| Review current cybersecurity threats |  |  |  |
| Discuss improvements needed in policies and procedures |  |  |  |

Your lecturer/assessor will observe your performance and complete the following performance checklist.

**Performance criteria checklist for Meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Lecturer/ Assessor to complete** | | | |
| **Does the candidate meet the following criteria** | **YES** | **NO** | **Lecturer/Assessor comments** |
| Discussed policies and procedures developed in activity 2 (eg purpose, scope and relevant legislation of policies) |  |  |  |
| Discussed the report prepared in activity 1 (eg highlighted policies which help in improving cyber security) |  |  |  |
| Reviewed the cybersecurity threats |  |  |  |
| Discussed ways to resolve cybersecurity threats |  |  |  |
| Discussed improvements needed in policies and procedures |  |  |  |
| Completed the meeting minutes using template |  |  |  |
| Completed the meeting in the given timeframe |  |  |  |
| Used active listening to understand the manager’s point of view |  |  |  |
| Allowed other people to discuss the issues |  |  |  |

**Activity 4. Prepare and deliver a PowerPoint presentation to create awareness about cybersecurity**.

Based on your report, policies, and meetings with your Triad manager, prepare and deliver a PowerPoint presentation (approx. 10 minutes). Present your powerpoint to a classmate who will play the role of manager/colleague.

Your PowerPoint is to be designed for the staff at Triad Security. You must include the following in your presentation:

Prepare at least 10 slides

* Introduction
* Deliver cybersecurity policies and procedures
* Importance of cybersecurity
* Ways to improve cybersecurity at Triad
* How to avoid common cybersecurity risks
* Conclusion
* Allow others (lecturer or fellow students) to question and answer the questions.

Your PowerPoint MUST provide training for at least 2 cybersecurity threats, and MUST define steps to protect the information system at Triad Security.

Your lecturer/assessor will observe your performance and complete the following performance checklist.

**Performance criteria checklist for Presentation:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Lecturer/ Assessor to complete** | | | |
| **Does the candidate meet the following criteria** | **YES** | **NO** | **Lecturer/Assessor comments** |
| Communicated purpose clearly |  |  |  |
| Organised and easy to follow |  |  |  |
| Presenter exhibited a good understanding of the topic |  |  |  |
| Presenter spoke clearly |  |  |  |
| Time for presentation was used effectively |  |  |  |
| Slides enhanced presentation |  |  |  |
| The presenter responded effectively to audience questions and comments |  |  |  |