Assignment 1 Guidance

# Task 1 - Identify types of security threat to organisations. Give an example of a recently publicized security breach and discuss its consequences (P1)

To answer this section, follow each of the steps below:

* Define threats
* Identify threats agents to organizations
* List type of threats that organizations will face
* What are the recent security breaches? List and give examples with dates
* Discuss the consequences of this breach
* Suggest solutions to organizations

*(Word limit: 500 – 750 words)*

# Task 2 - Describe at least 3 organisational security procedures (P2)

To answer this section, you need to mention and discuss 3 security procedures that an organization uses to improve or provide organizations security.

*(Word limit: 500 – 750 words)*

# Task 2.1 - Propose a method to assess and treat IT security risks (M1)

To answer this section, follow each of the steps below:

* Discuss methods required to assess security threats? E.g., Monitoring tools
* What is the current weakness or threats of an organization?
* What tools will you propose to treat IT security risks?

*(Word limit: 250 – 500 words)*

# Task 3 - Identify the potential impact to IT security of incorrect configuration of firewall policies and IDS (P3)

To answer this section, follow each of the steps below:

* Discuss briefly firewalls and policies, their usage and advantages in a network
* How does a firewall provide security to a network?
* Show with diagrams the example of how firewall works
* Define IDS, its usage, and show it with diagrams examples
* Write down the potential impact (Threat-Risk) of a firewall and IDS if they are incorrectly configured in a network

*(Word limit: 500 – 750 words)*

# Task 4 - Show, using an example for each, how implementing a DMZ, static IP and NAT in a network can improve Network Security (P4)

To answer this section, follow each of the steps below:

* Define and discuss with the aid of diagram DMZ. Focus on its usage and security function as advantage
* Define and discuss with the aid of diagram static IP. Focus on its usage and security function as advantage
* Define and discuss with the aid of diagram NAT. Focus on its usage and security function as advantage

*(Word limit: 500 – 750 words)*

# Task 4.1 - Discuss three benefits to implement network monitoring systems with supporting reasons (M2)

To answer this section, follow each of the steps below:

* List some of the networking monitoring devices and discuss each of them.
* Why do you need to monitor networks?
* What are the benefits of monitoring a network?

*(Word limit: 250 – 500 words)*

# Task 4.1.1 - Investigate how a ‘trusted network’ may be part of an IT security solution (D1)

To answer this section, follow each of the steps below:

* Discuss and explain what are trusted network
* Give brief details with an example on its uses
* How can it be a solution in IT security?

*(Word limit: 250 – 500 words)*