VLAN

A virtual local area network (VLAN) is a network that segments a physical network into isolated subnets. The process of segmentation does not depend on the configuration of physical switches and cables; thus, this makes traffic management more flexible and also more secure.

In this task we mainly used 4 VLANs for different reasons that I will list;

1. The first reason why I used these 4 VLANs was simply related to network security, as we well know VLANs are used to separate network traffic between two or more groups of different devices, doing so improves security and reduces collisions.
2. The second reason is for the flexibility of VLANs that allow you to reorganize networks without having to move devices.
3. The third motivation concerns the improvement of performance, so if we segment the network, the broadcast dominance is reduced therefore performance improves.
4. The fourth motivation is for simplified VLAN management, so it means that they simplify the management of networks and facilitate the implementation of security policies and traffic management.