

U4 discussion

Technology, Information Technology



U4 Discussion Factors That Influence To Suggest A VLAN and Types Of Things Would The Client Need To Describe. VLAN or Virtual LAN is a Local Area Network used for effective transmission of data. The factors that influence VLAN to the clients include the ability of VLAN to meet the requirements of wide range of users and provide better security. Another important factor for effective use of VLAN is the use of different MAC addresses for better communication (Jain, n. d.).

The Client should clearly describe about, how the VLAN should be configured so as to increase their productivity. Moreover, the use VLANs to boost security, enhance network performance and increase flexibility (Jain, n. d.).

Advantages of VLAN

The VLAN offer large number of advantages. They include:

Increase performance. In network where there is huge congestion in the traffic and where high percentage of the broadcast takes place, VLAN can reduce such congestion and help in avoiding diversion to unnecessary location and destination (McIntire, 2001).

Reduced cost by implementing VLAN. It mainly helps the business organization to reduce the number of routers and provide proper signals without any fluctuations (McIntire, 2001).

Increase Security domain. The data used for broadcasting must be placed in a manner that reduces the interference of the outsiders (McIntire, 2001).

Why Not Just Subnet the Network Instead Of Using VLAN's?

Subnet and VLAN are two different layers of networking. Subnet mainly relates to one particular IP address such as ' 172. 26. 15. 1' where as VLAN mainly takes ' IEEE 802. 1Q Draft Standard', which essentially helps in

providing unique MAC address tables. This will help in protecting the details of the particular user and also aid in security measures. It also provides wider coverage as compared to Subnet (Jain, n. d.).

References

Jain, R. (n. d.). Virtual LANs. Retrieved from http://www.cse.wustl.edu/~jain/cis788-97/ftp/h_7vlan.pdf

McIntire, R. (2001). VLANs and switching technology: types, tuning, and enhancements. Retrieved from <http://www.techrepublic.com/article/vlans-and-switching-technology-types-tuning-and-enhancements/>