| network distribution of UIT  By Syed Bilal Ali, Sufyan Ahmed Khatani, Abdullah Tariq, Shehneel Ahmed khan  Introduction  Data Collection  The employee of the UIT who are responsible for the distribution of network in UIT and the technicians who set it up by their own hands were the source of data and gave the data to us.  Network SETUP  Networking plays an important part to facilitate the students and faculty members with internet to allow to establish connection within the institute and with the world (internet). This graph visualizes the network distribution of UIT’s new building which contains only the labs and the PCs of rooms excluding faculty rooms to explain to someone how the computers are connected in UIT’s premises. The goal of this project is to analyze and propose solutions on how it can be made better. |
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| Degree Distribution  Figure 2 below visualizes the network of UIT it contains of an uplink and downlink node in the center provided by the ISP which goes into the datacenter (All three shown in purple color). Which the data center provides links to different switches set in UIT which further divides the links to PCs.  The problem here in UIT is the speed slows down for pc when every pc is accessing the internet at the same time. This problem occurs because in a lab there are 3 switches one is connected with data center while the other two are connected with the main switch if another link is provided from the data center to the switch this problem can be resolved.  The graph shows a star topology in which data center is the hub and the nodes are switches and further divided into PCs. Since star topology is the fastest topology to transfer the data UIT’s network distribution is an implementation of star topology.  Average Degree : 1.993355  Figure 1 below shows that there are a large number of PCs in UIT which have degree 1  While the data centre les in the middle and the switches lie at the right end of the  Graph showing a sudden rise in nodes. |
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