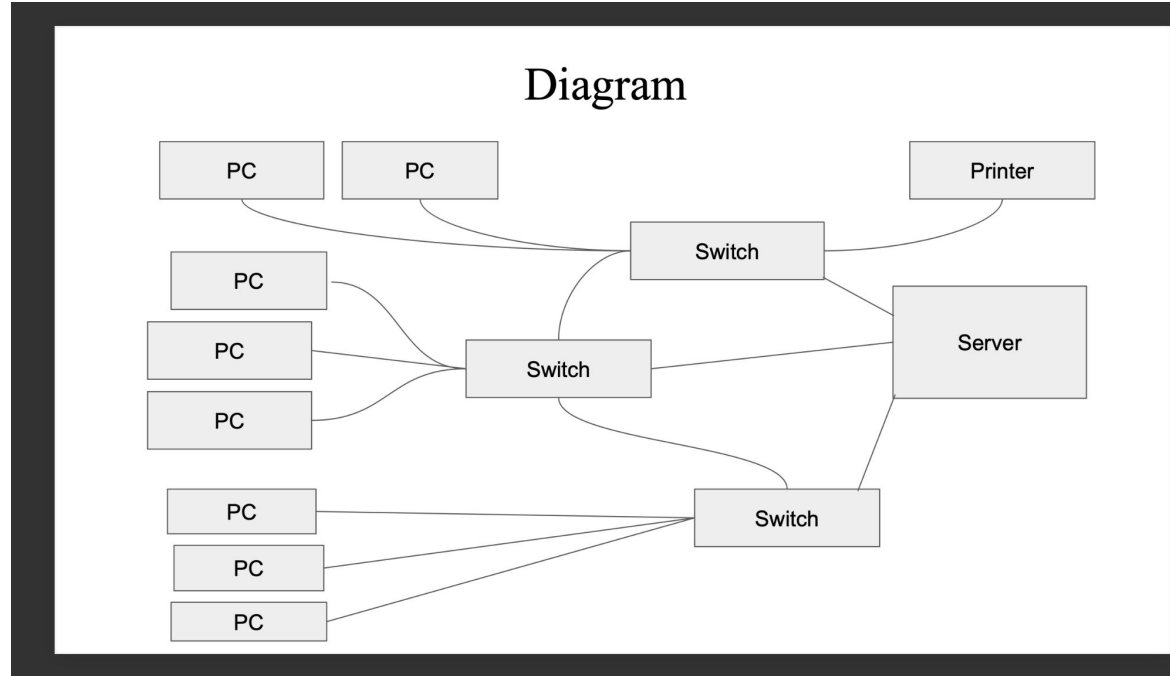# Segmentation Principle

By: Michael Roman

Network Diagram

This is a very simple design work of a network. As you can see there is one server with three switches allowing all of the PCs to be connected to switch which connects them to the server. Now we will break down the budgeting side of it and how it all really works.

Diagram

PC	PC

Printer

Switch

PC

Switch

Server

PC

PC

Switch

PC

PC

PC

Budgeting the Network Part 1

So in order to have a network you would need to buy a server which for a DELL PowerEdge R810 server it would be $1030

You would also need switches so in order to be efficient with switches you would need 3 prices at $27 for a total of $81

Now obviously a printer will be needed costing $719

Budgeting the Network Part 2

Now near the end of it all you will still need the PCs, so getting Macbook Airs for the office being 8 of them prices at $929 for a total of $7,432

Also needing enough ethernet cables totaling to $109.76

Final Budgeting Projections

Now for the finale in order to create a sustainable network for a small office it would cost you around $9,371.76