

Networking Quicksheet

Concept overview

Networking and the internet is an important part of computer science, utilizing various networking concepts is extremely important. For instance you can host your own servers by using networking skills, which can be used to host websites, test in a safe environment, and do infinite other things. Small concepts have helped my students and I, we were able to identify that a website was down using status codes, so that was very rewarding because we had talked about it the day before. I think that even more basic networking concepts are going to be beneficial at the HS level, what is an IP address, DNS servers, setting up routing protocols and switching etc.

How networking could fit into my teaching context

I would love to create my own classroom server to teach how networking works. I would love to setup our own router, use something like wireshark to look at ip addresses, DNS, the setup of a router etc. From there we could host a class website, or do many other things that would be realistic and very exciting.

How I might teach networking

Sadly BOCES and Ed-Law 2-D make anything networking wise almost impossible in my district, we cannot even have Python or the terminals on our computers. I think running a simple server at home is more viable than doing anything in my classroom, which then creates a slew of other privacy issues. I do not have a good answer to this yet, perhaps a simple jokes server like we did in class as an example.