**Potential Reddit Post for the Network Virtualizing QEMU Project.**

**Title:** Complete Network Virtualization

**Potential Subreddits:** r/qemu\_kvm, r/sysadmin, r/homelab, r/technology, r/programming

**Notes:** The content that I have produced so far is, in my opinion, not yet of enough use to make a social media post about the project. However I have written this post as a future me, with more of the ground-work of the project laid out to allow readers to actually have something to interact with. I hope this is acceptable.

**Post Content:** [**LINK TO GITHUB**](https://github.com/bconnor270/ComputerScienceChallenges)

I have started work on creating software that will allow for plug-and-play whole-network virtualization using QEMU and KVM. The software is aimed at system administrators and cyber-security specialists, and the end-goal is to be able to open the software and “click go”, and have it scan your network and replicate its entirety in a private VLAN within your admin machine.

Your new VLAN would be a complete 1:1 replica of your real-life network, with every single machine and the connections between them virtualized accurately. The potential use-cases for this kind of software would be immeasurable for system admins in small businesses, schools, colleges etc. Processes such as security testing, update rollouts, software rollouts etc. could all be carried out with near 100% confidence that the result in the emulation is what will happen in real life too. This could seriously reduce down-time caused by errors in any of these processes, as fixes can be made and tested in the VLAN before being deployed to the real network.

This software is very much in its infancy, however the idea of this kind of plug-and-play system is reasonably uncontested in the market. Comparable existing open-source software includes the [Common Open Research Emulator (CORE)](https://www.nrl.navy.mil/itd/ncs/products/core) and the [Extendable Mobile Ad-hoc Network Emulator (EMANE](https://www.nrl.navy.mil/itd/ncs/products/emane)).

This existing software has provided great inspiration, however for system administrators in smaller-level businesses, schools etc. this level of software is simply unnecessary and particularly unwieldly. My project seeks to address these shortcomings of existing software in this space.

The link to the GitHub is above, and you can read a blog post about my current progress [here](40260011_BlogPost/index.html).

Thanks for checking out the post.