

Wesley J. Faxlanger

February 28th, 2025

Professor Duvall

CYSE-368

IPConfigure Internship Reflection #1

The first fifty hours of my internship with IPConfigure involved a significant amount of trial and error while learning to adapt to complete the assigned tasks on time. While my primary role in this internship is assembling servers, I also learned how to properly rack, image, and troubleshoot servers. The most common issues I faced when troubleshooting were issues with the RAM, CPU, motherboard, and in rare cases the PSU. However, the most complex troubleshooting task I faced was a hard drive that was damaged somehow, resulting in the server being unable to boot. Figuring out the cause of this issue took several hours and was a challenge for other assemblers with significantly more experience. However, after much trial and error, I determined that the hard drive was the issue and was responsible for damaging other components in the server. Troubleshooting is standard in my internship as we assemble between twenty-five and over one hundred daily servers. The basic process of assembling a server involves starting from scratch with the individual pieces including the motherboard, RAM, CPU, NIC, SSD, HDD, SATA cables, and a chassis. After adding the necessary components to the motherboard, the next step is to secure the motherboard in the chassis and add the HDD and NIC. Once the server is assembled, it is essential to plug it in while the chassis is still open to ensure the server powers on and no error lights are displayed. The next step is to place the servers on racks, where the BIOS settings are changed, and the server is imaged with Ubuntu. After this installation, we

are responsible for placing serial number stickers on the servers before an individual from another department can check them. After this process, we are responsible for securing the boxed servers to a pallet and preparing the pallet for shipment.