

## **Homework #13**

### **“WHY?”**

I believe the purpose of this project was to help us to gain a better understanding of setting up and deploying network environments and ultimately pushing logs from the Elk server to our web server. We created virtual machines to act as servers inside our virtual networks and we use network security groups to establish security rules (defined by us) that allow us to secure those virtual networks through the opening and closing of particular ports, which allows or denies the access of these networks. We use a load balancer to redirect data in case of a malfunction and we use Docker on different VM's/servers to pull various containers (which are basically compressed operating systems) because containers are very lightweight, fast and inexpensive. Docker also allows us to transport the containers across different hosts without compatibility issues which allows for consistent functionality regardless of the host or server that's using.