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**Deliverable 1:**  
Green Path = Easy

Red Path = Difficult and Time consuming

Install Servers at Generator  
Generator as a client needs infrastructure built on site as well as 2 servers to build the new infrastructure on. The proposal that I have is fro them to get 2 super micro servers with vcenter on both and on the first server install AD01, DHCP01, and a DNS. For the second server install vcenter with AD02, DHCP02 and DNS.  
  
Install Firewall at Generator  
Currently Generator does not have a firewall on site. For this I would reconfigure their current Unifi Dream Machine to have zones and set up a few more rules to make it more secure overall.

Configure the Switch at Generator with Vlans  
Generator does have multiple switches currently on their network but none of them have any vlans and it is all one big network. For this I would set up vlans for every type of machine (Laptop, AP, Desktop, and Printer).

Security Configuration  
I would have either a new Elastic stack built at generator or use the pre-configured LC elastic stack to help monitor the network to make sure everything is still running smoothly. In the case of using the pre-existing elastic stack, I would have new rules set in place so that you can see more of what is going on at the generator.

Network Scan  
Since there is no pre-existing infrastructure, we have to take tshark captures of the network and comb through the data to make sure that nothing malicious is currently running through their network. Once this has been done and we have deemed their network clean, then we can start to think about how to build the infrastructure.

Bi-Weekly Updates  
For this project, I would like to keep Generator staff up to date with what I am doing so that they know what changes have been made as well as for them to know that I am actually doing work for them.

IT/Security Training

For the last part, we would need to keep everything well documented and we would need to train both IT and Security on the new changes that have been made to generator so that they would know how to fix any problems that would come up.