



Mac's PC

Final Project: 301d6

Agenda



Mac's PC

1. **Team Member Introductions**
2. **Problem Domain & Project Overview**
3. **Team Process & Documentation**
4. **Application Demonstration**
5. **Q&A**

Our Team



1. **Anthony Wall**
2. **Jeremy Patton**
3. **Rob Gregor**
4. **Ethan Brock**
5. **Dylan Dempsey**

Anthony G Wall

Persistent and goal oriented

- Former USMC Infantry team leader
- Licensed and registered Loan officer
- CompTIA ITF+ Certified
- Aspiring cyber security professional

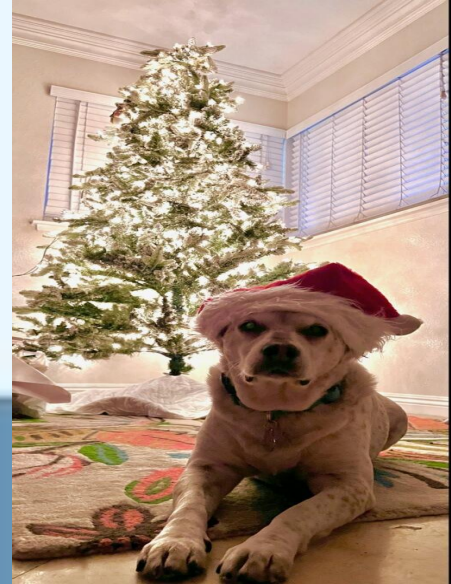


Scan to connect with me on LinkedIn:



Jeremy Patton

- worked as an Assembly Lead for several years
- strong interest in the security aspect of technology.
- I picked this specific skill because there is a high demand in Cyber Security





- Previously employed as a DTRA DoD Red Team Liaison
- Chose cybersecurity to challenge myself and expand knowledge



Ethan Brock

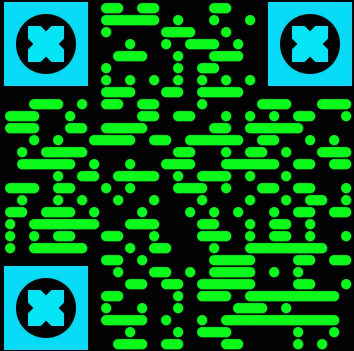
- Army Veteran - Wheeled Vehicle Mechanic
- I prefer to spend my time outside when possible.



Rosie
Lab/Beagle mix



Dylan Dempsey



Dylan Dempsey | LinkedIn



- Navy Veteran (STG2)
- Security Clearance
- Real Estate Agent/Investor
- Expert at identifying risks and opportunities

Problem Domain - Green Spark

- **Startup offering energy consulting services**
 - Experts work with clients to reduce energy consumption
 - Customized solutions for cost savings and reduction of carbon footprint
- **Client Requirements**
 - Develop automated Domain Controller configuration
 - Build a site-to-site VPN tunnel
 - Provide network access control for Authentication, Authorization, and Accounting (AAA)

Solutions

- **Domain Controller auto-configuration**

- A PowerShell script was developed to provide a menu-based interface.
- easily configure various Active Directory services.
- prompt the administrator for input

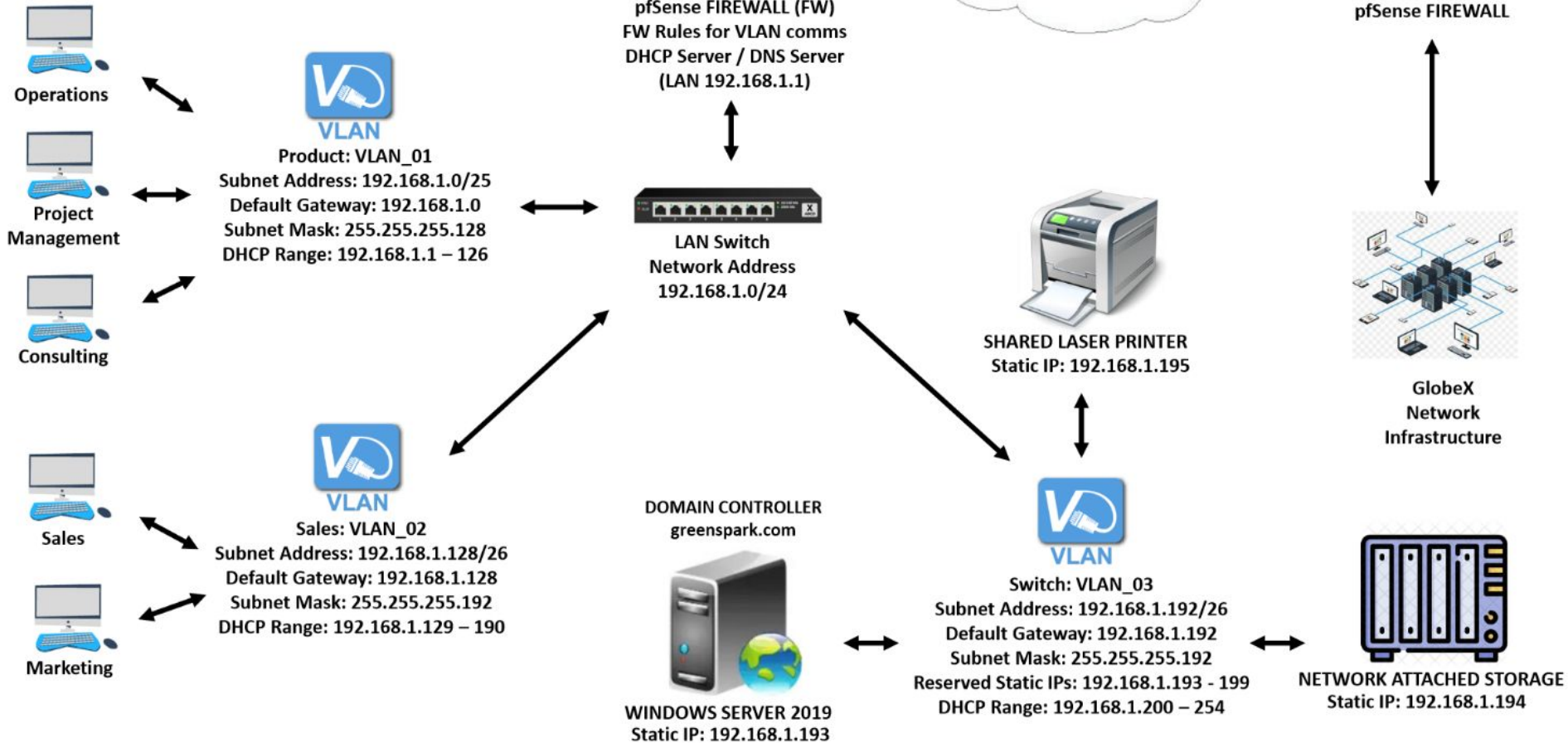
- **VPN tunnel**

- Set up a VPN tunnel with IPsec protocol
- data is encrypted at the source and decrypted at the destination.
- more difficult to tamper with the data in transit.

- **Network access control**

- Implemented a RADIUS system.(**Remote Authentication Dial-In User Service**)
- Provides the network with AAA (**Authentication, Authorization, and Accounting**) Security.
- Raises a captive portal.
- Authenticates new network users.

VLAN Trunking Network Topology



Demo!

Resources & Thanks

- <https://github.com/Mac-s-PC>
- <https://trello.com/>
- <https://drive.google.com/>
- <https://openai.com/blog/chatgpt>
- <https://logo.com/>

Mac's PC



Trello



sense



PowerShell

Questions?
