

<u>Agenda</u>

- 1. Team Member Introductions
- 2. Problem Domain & Project Overview
- 3. Solutions
- 4. Application Demonstration
- 5. Q&A

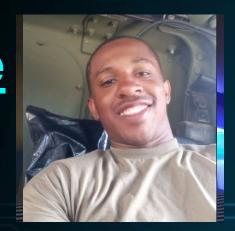
Team DataVerse

Robert Gillespie

David Siebert

Gerald Rietmeyer

David Prutch









Robert Gillespie

Current Army National Guards

Member. Chose Code Fellows to build
a strong foundation towards a
fulfilling and challenging career
within Cybersecurity.

















David Siebert

GitHub



US Army retired. Previous
Finance & Healthcare Licensed
careers. Enrolled @ Code
Fellows for my educational
interests & future career
rewards.













Gerald Rietmeyer

Worked in retail and landscaping before taking Code Fellows. Had a interest in cyber security since high school.

















David Prutch

US Navy Veteran. Previous Software QA Manager. Chose Cyber Security Engineering to increase my tech skills and provide greater future career possibilities.



















SunFlow

Develops smart IOT home devices, powered by solar energy.

Products:

- Smart thermostats
- Security cameras
- Lighting systems

Device Control Parameters:

- Mobile app
- Reducing energy consumption
- Maximizing efficiency



Network Integration Prototype

- Connect SunFlow to Globex Central Server
 - Provide access from any endpoint
 - Centrally store company data
 - Secure company resources
- Make process easily repeatable

Solutions

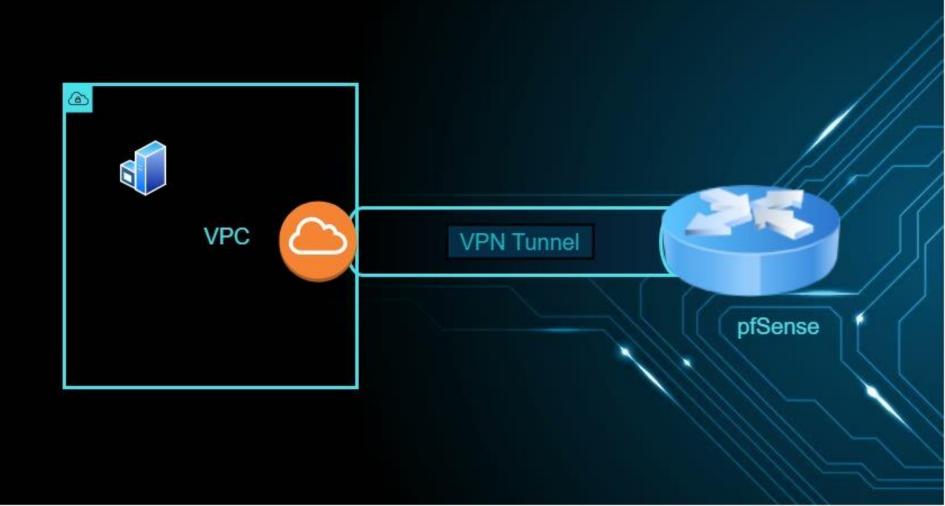
- AWS VPC with EC2 Win Serv 2019 instance
- VPN Connection from AWS VPC to pfSense
- Internal Network access to Server
- Active Directory and DNS in Windows Server
- Automation

AWS VPC with EC2 Win Serv 2019 instance - DavidS stores a server for globex. So additional acquisitions. Vpn connects to sunflow offices



IPSec VPN Connection

- Multiple Site to Site VPN Connection
- IPSec Secure, Encrypted, Reliable and Free
- pfSense router to connect to AWS VPC



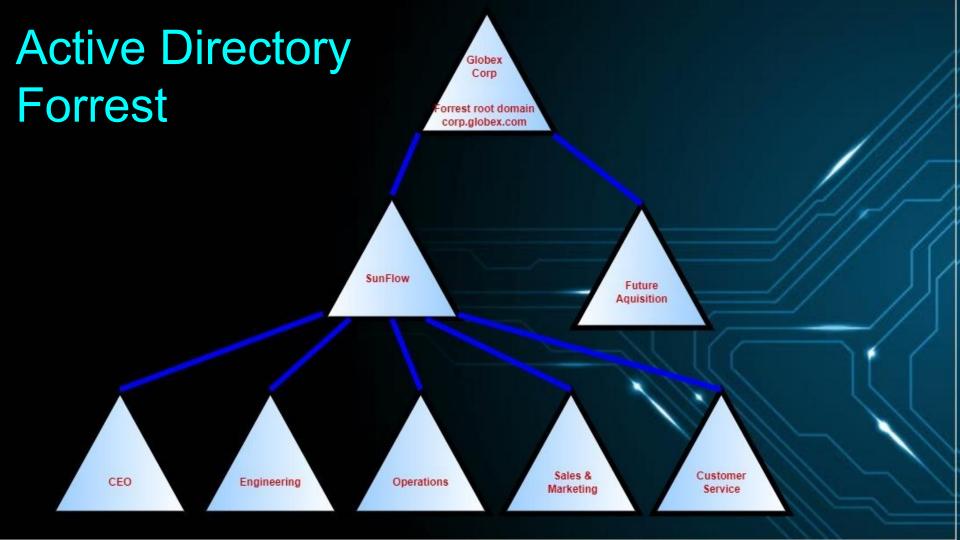
Logging into a Domain

- Domain
 - Users, workstations, devices and more
 - Standardized settings
- Captive Portal
 - Security checkpoint
 - Double checks credentials



Windows Server

- Primary DNS Server
 - Remote location traffic flows through central location
 - Traffic Mirroring on AWS end
- Active Directory
 - Independent Organizational Units
 - Group Policy based on individual subsidiary needs
 - Automated insertion



Resources & Thanks

 Special Thanks to our families and friends for putting up with us during the process.







To our Incredible instructors, TAs, and fellow students:

Thank you for making this learning journey unforgettable.

Your support and dedication have made all the difference.

Questions?

