

IT Solutions for NanoSphere Technology

A Micro-Satellite Company

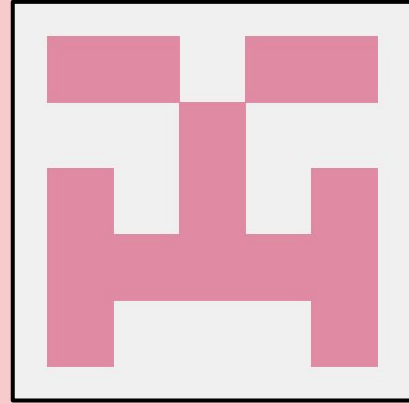
Seattle Ops 201D14 Final Project

Agenda

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

Our Team

1. Krystal Reid
2. Scotty Jokon
3. Tianna Farrow
4. Dominique Bruso
5. Hector Cordova



Krystal Reid

- Cybersecurity Analyst
- Marine Corps Veteran
- Experience in Emergency Medical Response
- Completing a BS in Biochemistry Studies
- Humanitarian and Disaster Relief Specialist



GitHub



LinkedIn



Scotty Jokon

- Cyber Security Engineer
- Passion for learning
- Fun Fact: I speak English and Marshallese fluently
- Contact Info:



Github:



LinkedIn:



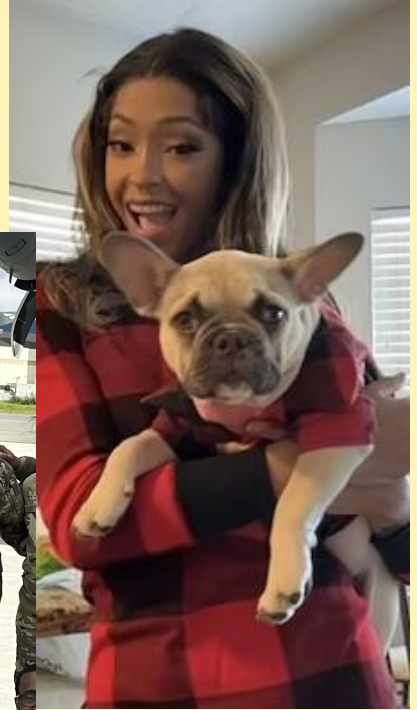
Tianna Farrow

- Cyber Security Engineer
- Flight Medic
- Currently working on my BS in Biochemistry and AA in Japanese
- Dog Mom
- Avid Traveler and Foodie

GitHub



LinkedIn:



Dominique Bruso

- Cybersecurity Analyst
- Former Army Intelligence Analyst
- Registered Nurse
- Mother to two human children Tessa (4) and Braulio (2) and one fur child Arthur (5)

GitHub



LinkedIn



Hector Cordova

- Cyber Security Engineer
- Veteran
- Over 8 years of providing exceptional client service
- A passion for problem-solving and helping people

GitHub

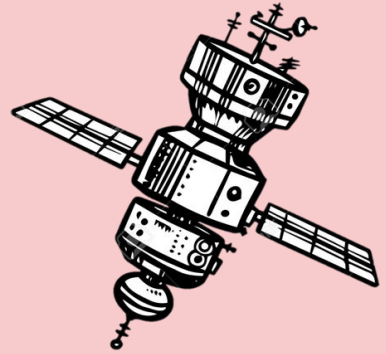


LinkedIn



Client Company: NanoSphere Technology

- Tiny startup specializing in micro-satellites
- Working out of garage
- Recently received new funding
- Aim to expand
- Main central location, some travel
- Intellectual property is main value
- No storage of technical designs on the cloud
- No intellectual property leaving the building, except for secure offsite backups

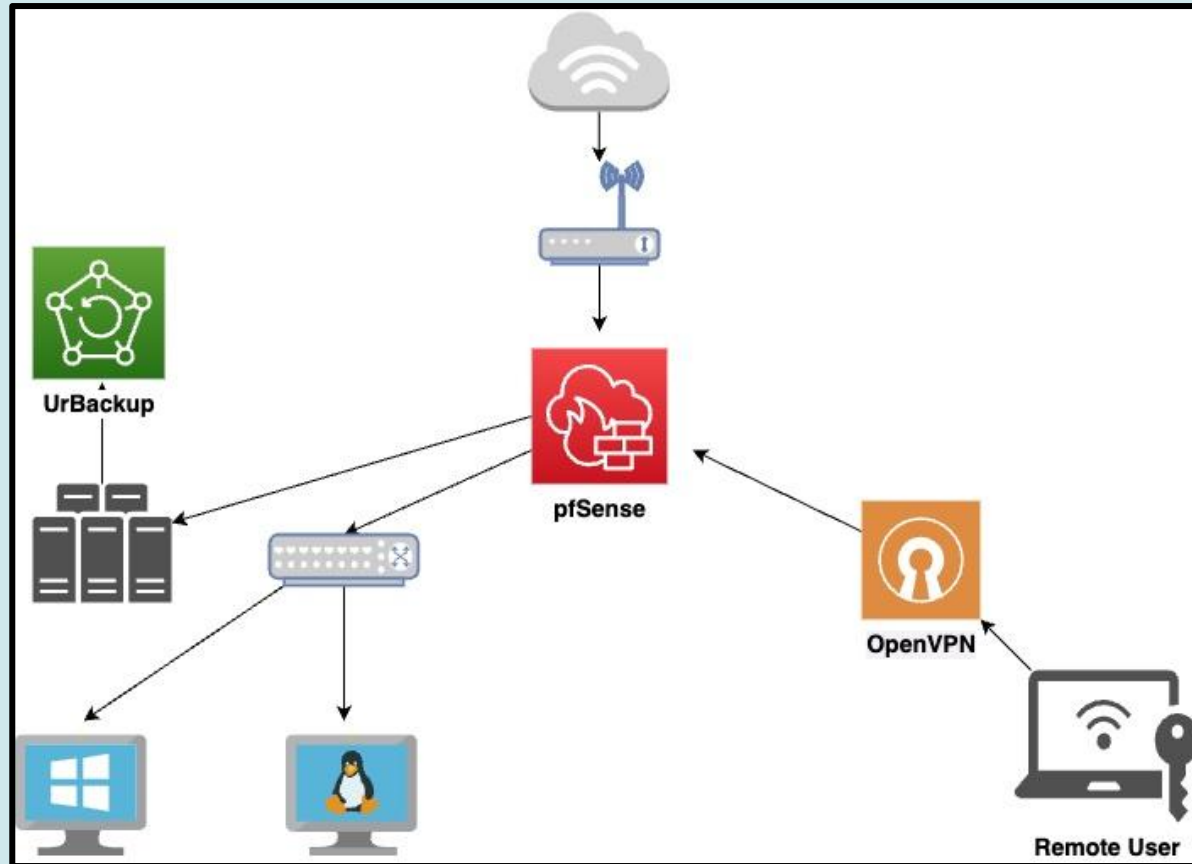


Solutions

- Guidelines for new user accounts and account terminations
 - Windows or Linux options for users
- Backup solutions
 - UrBackUp
 - Hot/cold site
- Collaboration
 - Thunderbird
 - Onedrive/sharepoint
- Secure Network and Remote Access
 - Pfsense and OpenVPN
 - Connectwise



Topology



Demo



OS Diversity

Windows and Linux are two different operating systems with distinct characteristics, features, and design philosophies. Here are some key differences between Windows and Linux:

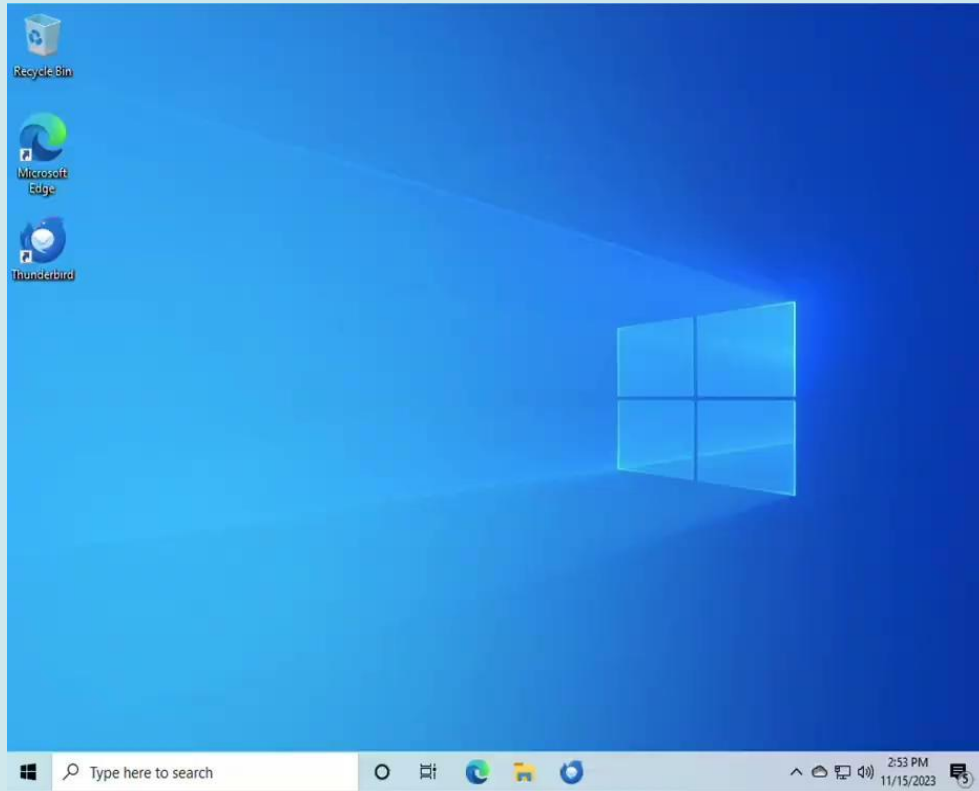


- Admin
- OS(GUI)
- Folder
- Not Free
- Not Customizable



- Root User
- Kernel
- Directory
- Free
- Open source

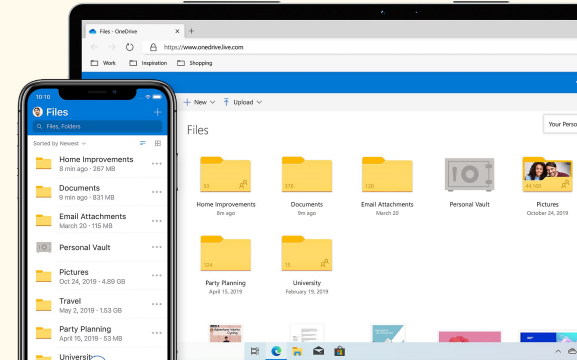
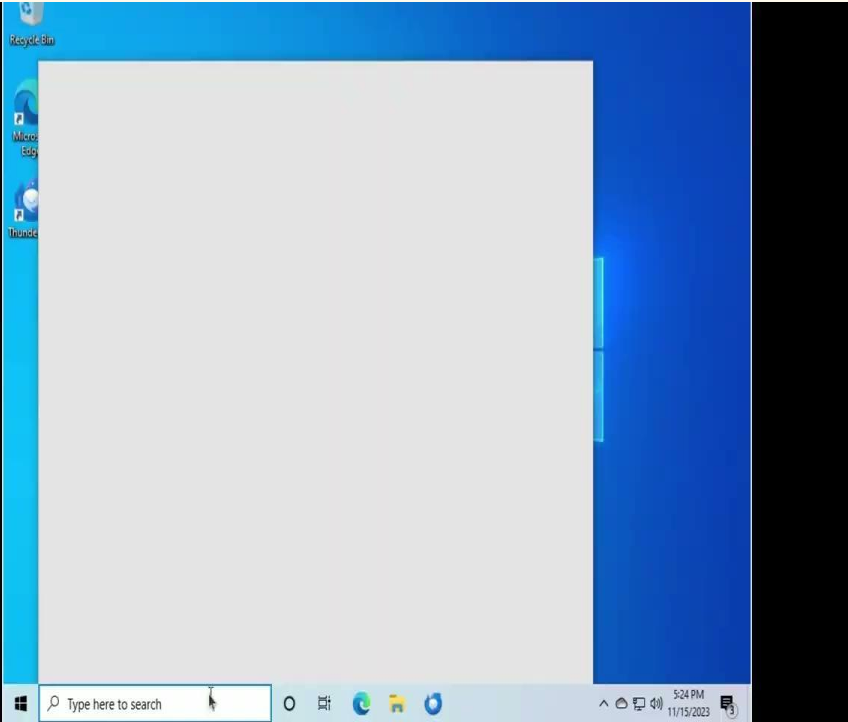




This demo shows the ability to use the email client Thunderbird, with the email connected and functional with a general signature for the user's perusal.

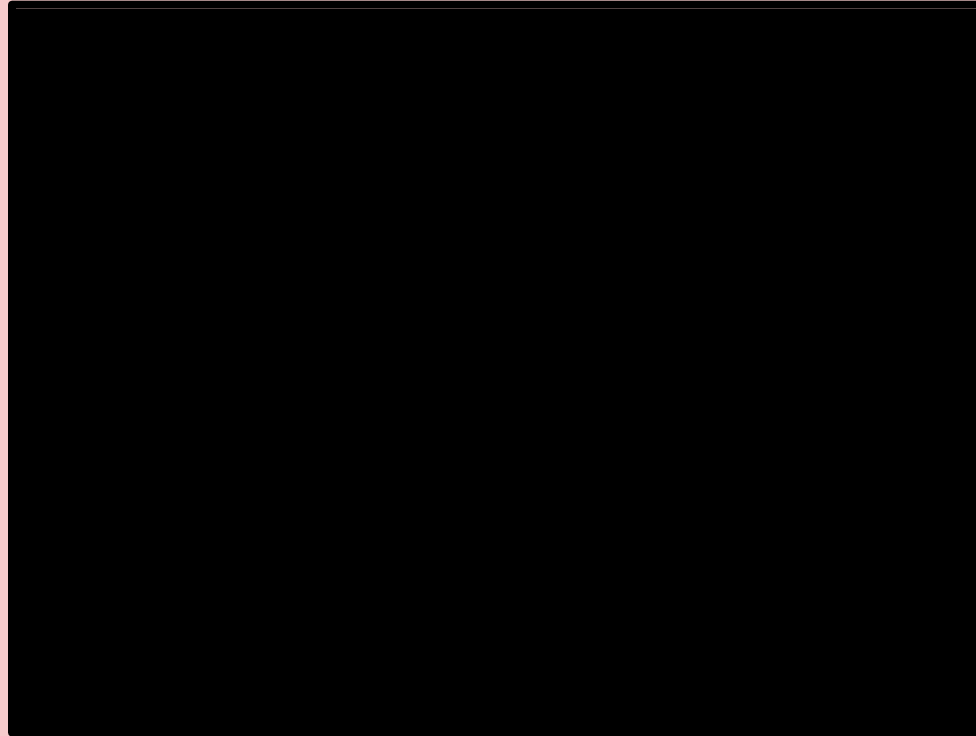
Microsoft OneDrive And BackUp Drive

- OneDrive is accessible through mobile device and web browser making it convenient for remote and traveling employees.
- Have a backup drive helps ensure:
 - Protection against hardware failure
 - Easier upgrade transitioning
 - Additional storage space



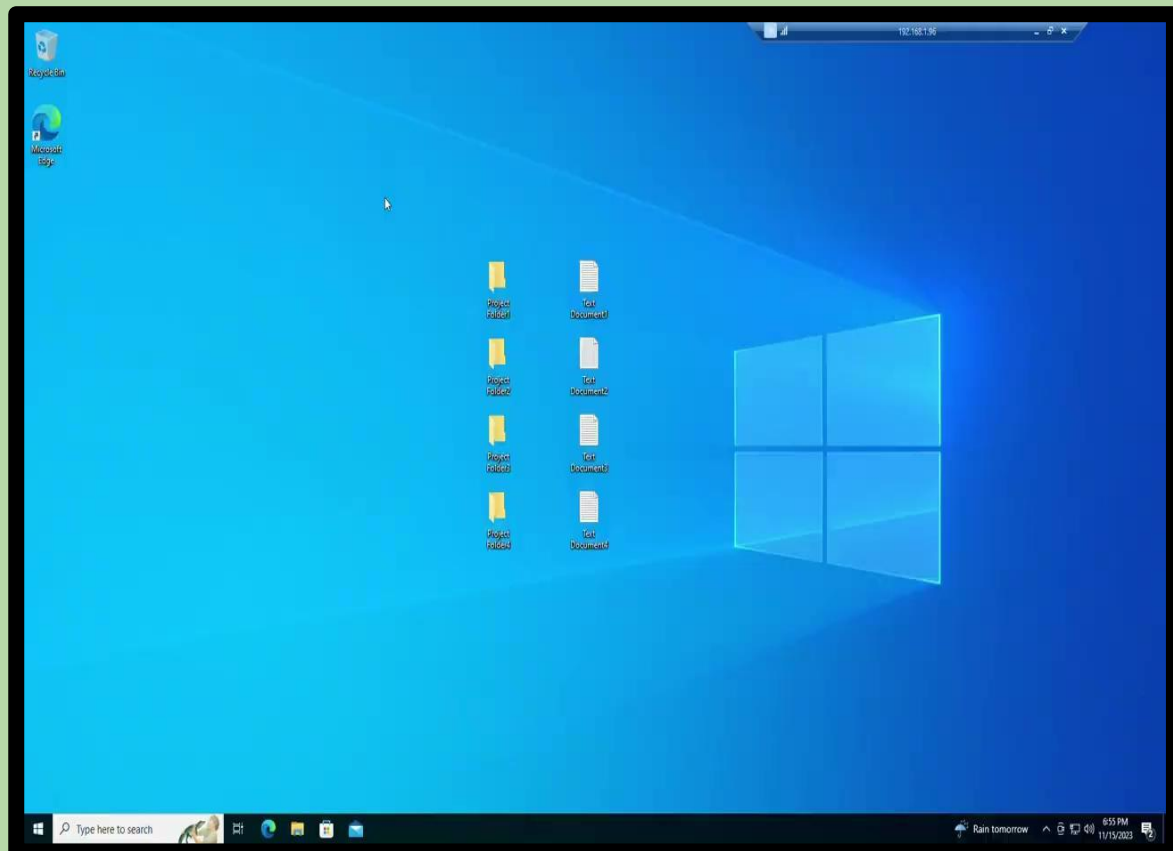
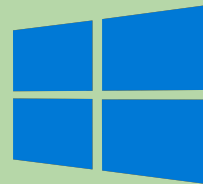


Secure Network with pfSense and OpenVPN





UrBackup





CONNECTWISE™

Resources & Thanks

- Tools used:
 - <https://github.com/cyberguardianit>
 - <https://www.pfsense.org/>
 - <https://www.urbackup.org/>
 - <https://www.connectwise.com>
 - <https://openvpn.net/>
 - <https://www.thunderbird.net/en-US/>
 - <https://learn.microsoft.com/en-us/sharepoint/introduction>

Questions?
