FULL MESH

Order of Presentation

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

FULL MESH

Paul Stroud
Ademola Olatunbosun
Spencer Mitchell
Justin Harrington

Paul Stroud

- Former US Army officer
- Associate’s degree in Cybersecurity
- Network and Cybersecurity certifications
- Work experience in IT/Telecom
- Meticulous attention to detail

Ademola Olatunbosun

- Epidemiologist
- Project Manager
- US Army Veteran / Environmental Engineering
- Masters Degree in Public Health
- Data Analyst, PMP, and ITF+ Certified
- Cybersecurity Engineering offers an in-demand skillset that is constantly evolving to address emerging threats

Spencer Mitchell

- USMC Veteran
- OEF Veteran
- Generator Mechanic
- Worked maintenance in previous careers
- Skillset match, Opportunities for growth

Justin Harrington

- Native Arkansas Father & Entrepreneur
- Master Industrial Mechanic, ICS, PLC, Ladder Logic,
- USMC Veteran, Infantry/Intelligence, DIA, Adviser
- Extreme Adventurer & Avid Outdoorsman

Certifications & Degrees:
- Counter Narcotics/Human Trafficking Analyst (DIA)
- CI/HUMNT (NMITC)
- IT/Cyber Security
- Technical Degree Electrical Mechanical Engineering
- Specialized Diesel Power Generation
- Marine Specialist / Advanced Marine

Problem Domain

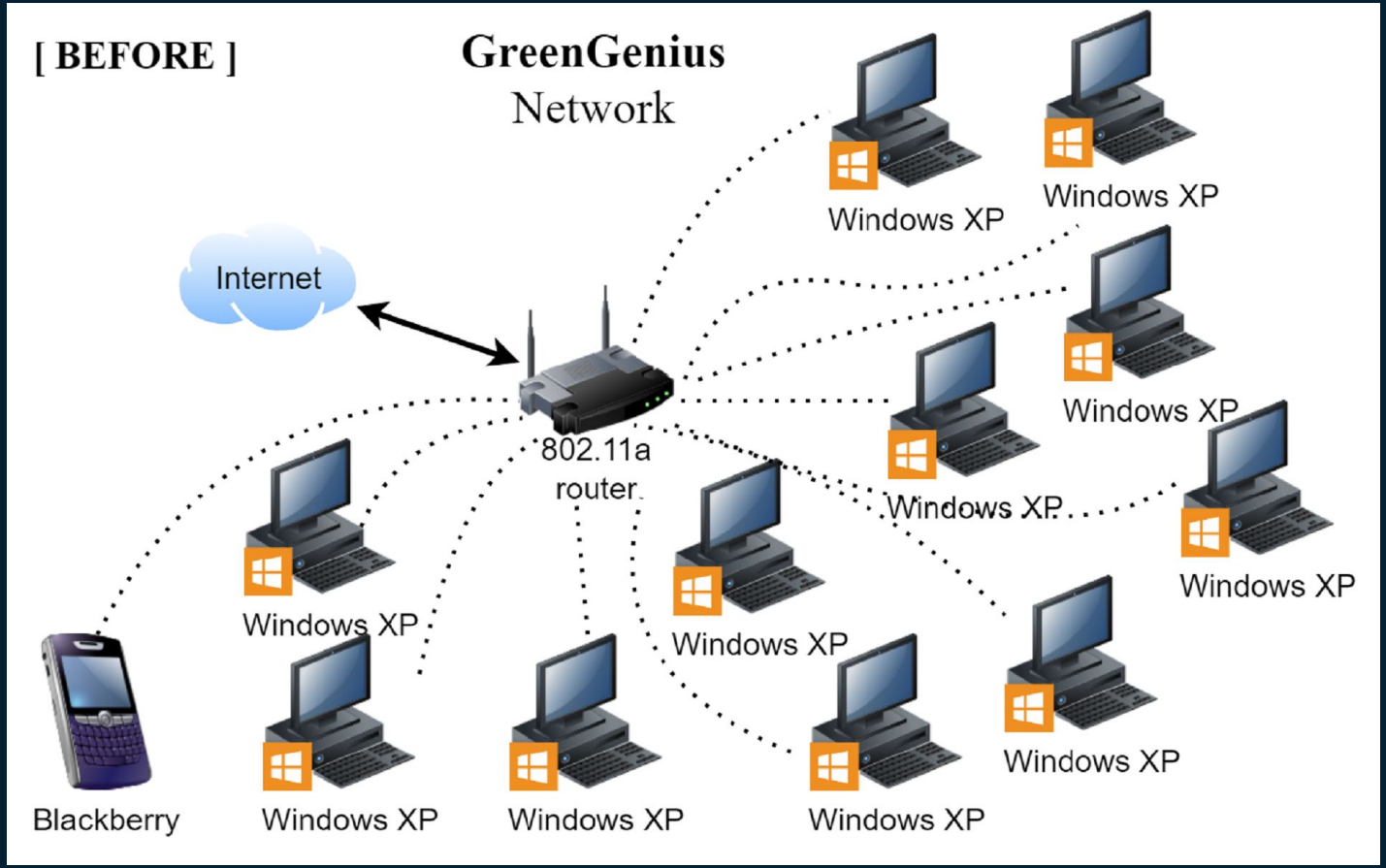
Update the IT infrastructure of a recently acquired startup GreenGenius:

- IT systems are primitive and very insecure.
- No Centralized File Sharing and Identity Management
- Small Newly established Company
  - Small Budget
  - Out of date Infrastructure
  - Needs room for growth

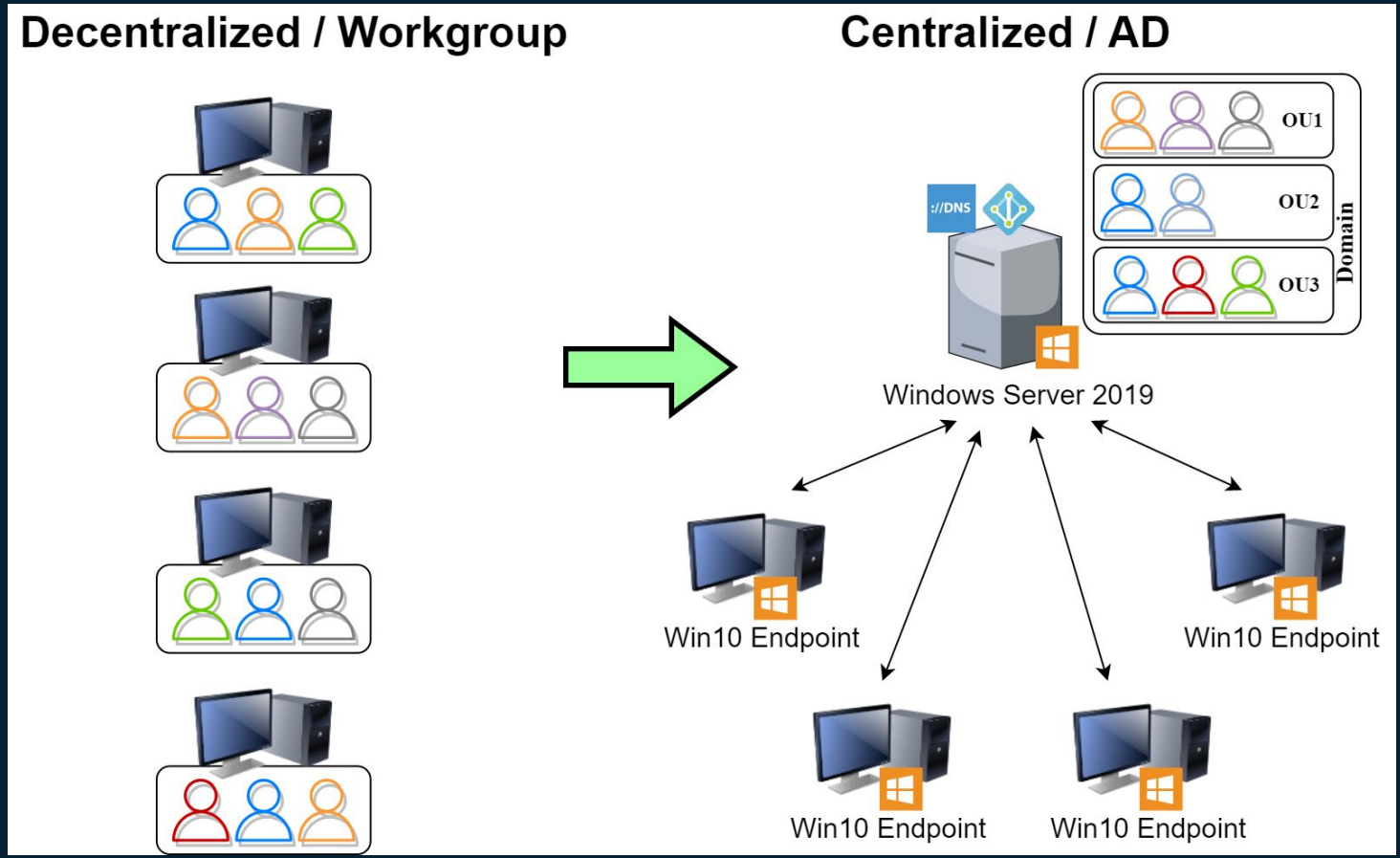
Solutions

- Automated deployment for the domain server and network services (DNS)
- Secure communication channel between the two networks (VPN)
- Access control measures (captive portal)
- Centralized account management (AD, AAA)

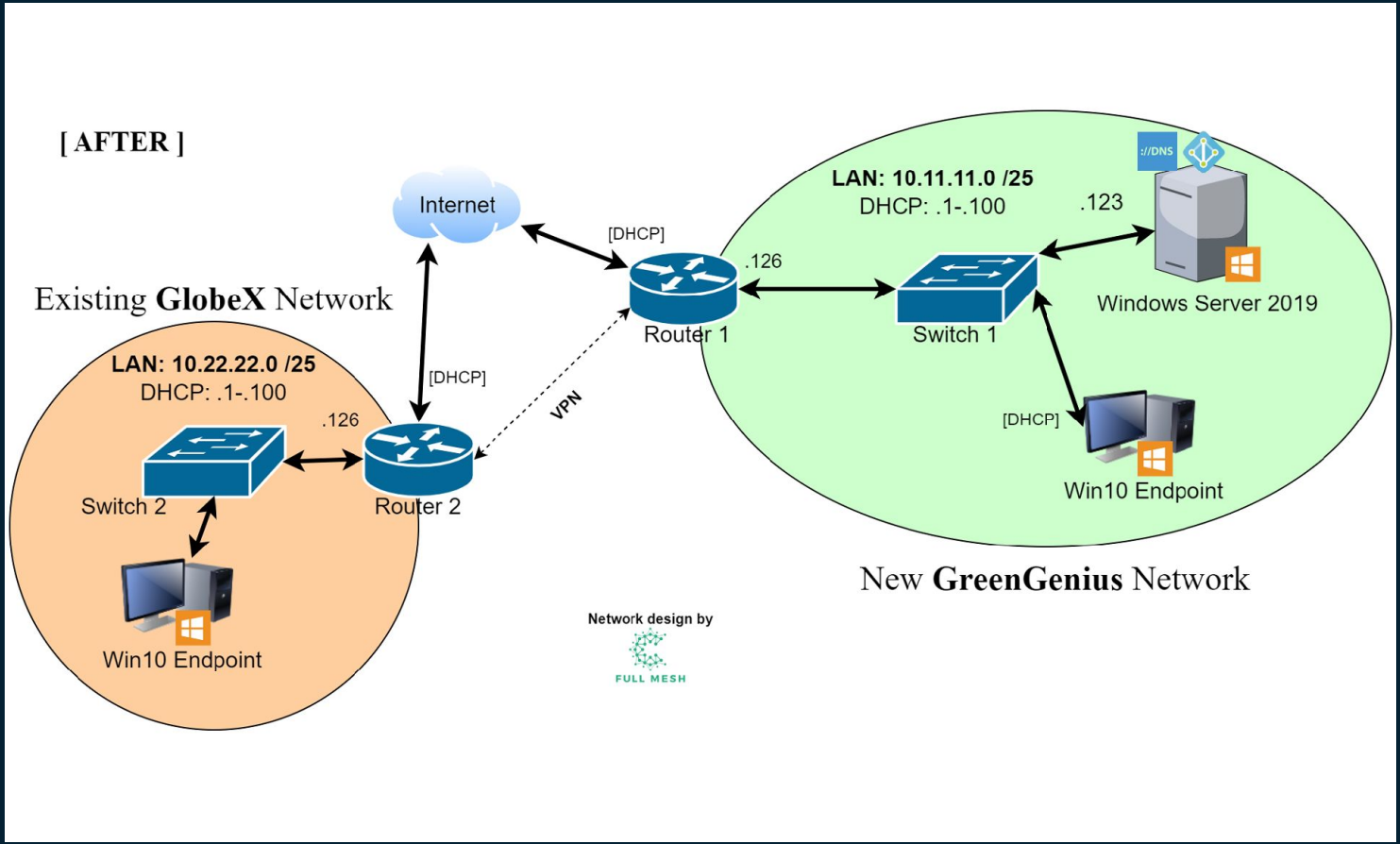
Topology


[BEFORE]
GreenGenius
Network
Internet
802.11a
router
Windows XP
Windows XP
Windows XP
Windows XP
Windows XP
Windows XP
Windows XP
Windows XP
Windows XP
Windows XP
Windows XP
Blackberry

Active Directory



Topology


[AFTER]
Existing GlobeX Network
Internet
[DHCP]
.126
LAN: 10.11.11.0 /25
DHCP: .1-.100
.123
://DNS
Windows Server 2019
Router 1
Switch 1
[DHCP]
VPN
LAN: 10.22.22.0 /25
DHCP: .1-.100
.126
Switch 2
Router 2
Win10 Endpoint
Win10 Endpoint
New GreenGenius Network
Network design by
FULL MESH

Demonstration

Resources & Thanks

- Code Fellows Staff
- All of our peers, we work better as a team.
- Ethan and Hexx
- Google

Questions?