What is bSecure

• Network Services and Information Security combined resources for integrated next generation firewall platform
  – ASA end of life
  – ASA poor performance, scalability and multi-department support
  – Increased cyber attacks
    • targeted and more sophisticated
    • vulnerabilities are discovered faster than fixes can be become available
  – Enterprise systems are not adequately protected
Introductions

• Palo Alto Networks
  – Awarded contract after a multi-phase security and network RFP process for next-generation firewall and advanced security services
  – Industry leading solution
• Digital Scepter
  – Value Added Reseller
  – Information security systems integrator
Purchased

• Firewall
• Panorama
• GlobalProtect
• Enhanced Security features
  – Threat Prevention
  – URL Filtering
  – Wildfire
• Advanced Endpoint Protection
Firewall: PA 5260

- 40Gb/s Connectivity
- Redundant Architecture
- Full stack inspection regardless of port.
- Map application traffic and associated threats to users and devices
- Site to site VPN
- Layer 3 Implementation Architecture
Network Security Management Tool: Panorama

- Easy to use GUI Interface
- Role-based access with delegate administrative controls
- Hierarchical design with lower-level inheritance
- Global oversight for critical IT assets
  - Shared policy management
  - User identification
  - Application awareness
  - Intrusion prevention system
Access VPN: GlobalProtect

• Basic campus VPN Service
  – Gradual adoption
  – Managed alongside Cisco AnyConnect client
  – Cisco Anywhere client retirement date is around July 2019

• Secure Gateway
  – For access to critical assets and data only
  – Enforce security policies for users at any location
  – Extend security policies and threat prevention capabilities to remote users
New Security Features

- Single-pass architecture
- Rules based on Application and User identities
- IPS signatures
- Threat feeds
- Bad actor blocking
- Zone protections
Traps

• Advanced endpoint protection with malware and exploit prevention capabilities
• Critical IT assets only
• Adoption in later phases of project
ASA Migrations

• Like for Like
• 2 Exceptions
  – No firewall administrator identified
  – PL2 system
• Resident Engineer from Palo Alto will be on-site
  – One year
  – Start date: Mid October 2017
• Migration Strategy
Training

- Self-Paced Online Training
- Customized one-day group training sessions
Questions

bsecure@berkeley.edu