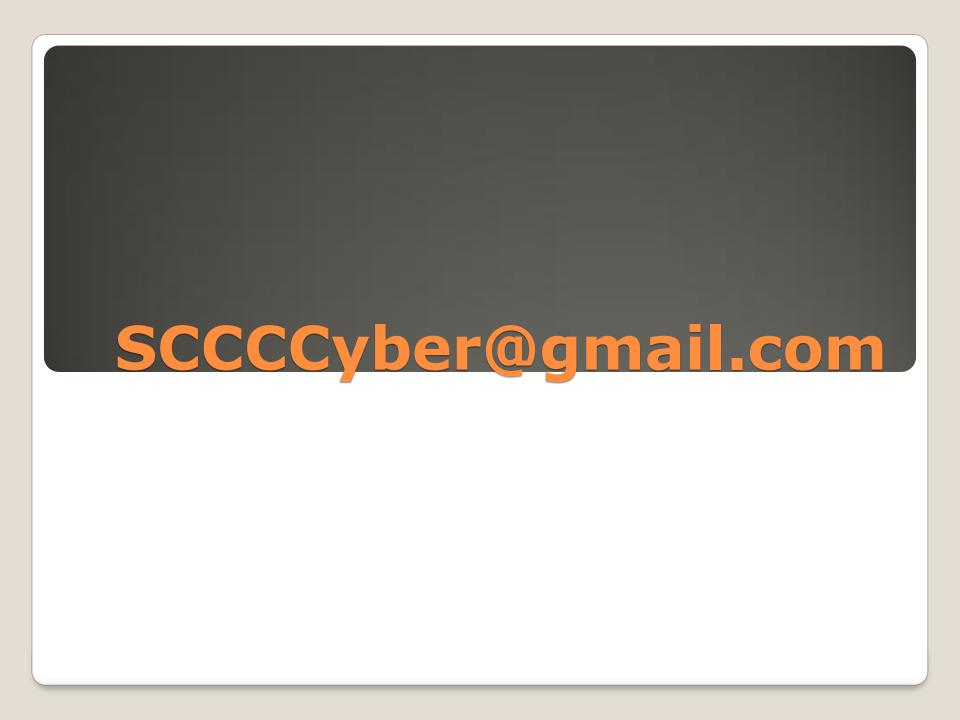
Sun City Computer Club

Cyber Security SIG

February 16, 2017



- Safer not Safe
- E-postcard not e-mail
- ADMINISTRATOR
- Passphrases not passwords
- Radio not wireless

Vocabulary

- DHS daily briefing
- Cyber Security Executive Order
- Your info on other smartphones
- Boarding pass photo
- Credit card photo
- Monitoring the monitor
- Smart Phone WAP cache
- MitM
- GPS jammer
- Samsung SmartTV
- Microsoft SMB 0-day patch delay
- uPnP on home routers on by default
- University attack 5000devices
- Full Screen Microsoft Tech Support scam
- ??

Current topics

- 178 million IPs associated with malicious activity 60% of internet traffic
- SHA-1 hash collisions
- Ransomware "helpdesk" support
- Sprial Toys
- Airport servers 1 year
- 4th amendment & border
- Windows option to block non-store apps
- Used smartcars
- Israeli Defense Forces Android devices
- Honeypot Honeynet blame game
- Dojo by Bullguard
- USB firewall

• ??

Current topics



Firewall

Securing a home network

Agenda

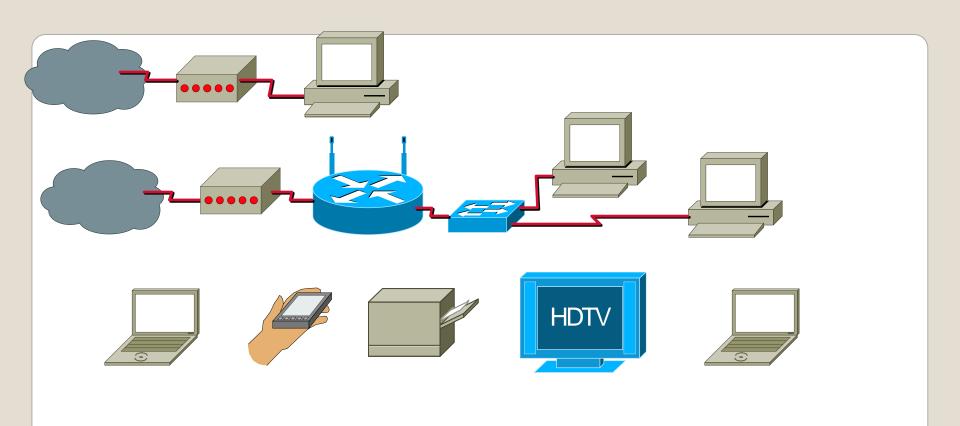
Design

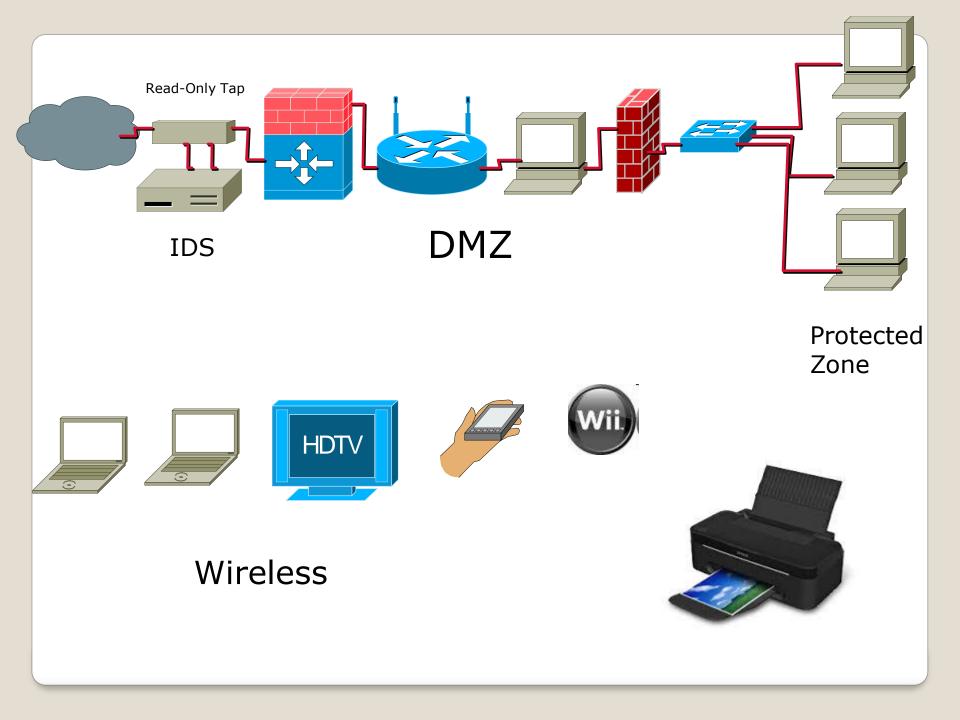
Configure

Instrument

Monitor

Home network





- Privacy Issues
- Check on Internet traffic
- Intrusion Detection
- Intrusion Prevention
- Data Loss Notification
- Network Flow capture
- Read Only

Network Tap

- Filtering WEB Proxy Server
- Rogue Wireless Access Points
- Split DNS
- Other

DMZ Server

- Hardware and Software Firewalls filter BOTH ways
- Use Router Access Control Lists (ACLs)
- Default Deny Access by Exception
- Choose Operating System Virtual Machine Option
- Use Industry Best Practices <u>http://cisecurity.org</u>
- Network Address Translation (NAT) DHCP reservation
- Banners
- Encryption

Configure

- IEEE 802.11 a/b/g/n ac
- Encryption WEP, WPA, WPA2, TKIP, EAP
- WPS protected setup
- Least Common Dominator
- SSID Name
- SSID Broadcast
- MAC Filtering DHCP Control Inventory
- Administrator Passwords
- Administrator Access HTTP Port Protected Zone
- Firmware Updates

Configure Wireless Access Points

- Hack from afar, Hack from not so far
- Speed and Distance
- Interference Yours, Theirs
- Encryption for packet data only
- Dauthenticate

Wireless - radio

- Logging to the Maximum
- Log to Central server in protected zone
- Host Based Intrusion Detection regmon, DiskMon, tripwire, rootkit, etc...
- Multiple Security Suites
- Simple Network Management Protocol SNMP off or secured

Instrument

- Filter logs Discard Benign
- Check Configurations often
- Keep Operating Systems, Applications and Firmware up to date
- Google for WAP GPS location
- Google for your assigned IP address
- Disassociate awareness
- Monitor the RF
- Monitor Internet Storm Center <u>https://isc.sans.org</u>

Monitor and Maintenance

• Questions, suggestions, comments?

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