



Law Enforcement IT Security Mentoring Solutions VOIP & Wireless Technologies PEN Testing

Overview Wireless PEN Testing

The Law Enforcement Agency’s Information Security Division has reached out to The Sage Group for Expert Level Mentoring to develop strategies for ensuring Wireless implementations at the department adhere to best practices for security. The Sage Group proposes five full day sessions on-site at their location.

Each day will be split up into two ½ day sessions to accommodate the staff and ensure there is proper coverage. These sessions will cover Wireless security best practices including live testing and demonstrations of Wireless attacks with heavy student participation.

The intent is to perform testing at various agency locations to determine the Wireless implementations in place and to test the security of their configurations. This will allow the Mentor and the students to explore and test various theories learned during lecture.

A list of set-up requirements were sent to the agency at least one month prior to mentoring commencement.

Wireless Pen Testing Mentoring Framework

The LE Agency’s Information Technology department utilizes Cisco and other technologies for Wireless access. At this time, it is unknown if Wireless access is implemented at the various NYPD stations spread across the city. One of the goals of this training will be to obtain an understanding of the Wireless implementation in place at NYPD Headquarters as well as explore the various Wireless technologies in place at NYPD precincts throughout the city. These technologies will be considered and utilized during content development and the duration of the workshop.

WIRELESS SECURITY

- Wireless Architecture
- Wireless Encryption Standards
- Hacking Wireless
- Wireless and Camera Systems
- Network Segmentation and Wireless
- Centralized Management and Access Points

FIELD EXERCISES & HACKING WIRELESS

- LE AGENCY Field Trips
- Wireless Tools and Techniques
- Impersonating Access Points
- Certificates and/or Passwords
- Enterprise Wireless LAN Solutions
- Alerting and IDS for Wireless
- Incident Response
- War Driving Exercises (off site)

Overview VOIP PEN Testing

The Law Enforcement Agency's Information Security Division has reached out to The Sage Group for Expert Level Mentoring to develop strategies for securing Voice Over IP (VoIP) within the enterprise and for ensuring the VoIP implementation at the department adheres to best practices for security. The Sage Group proposes five full day sessions on-site at the agency's location.

Each day will be split up into two ½ day sessions to accommodate the staff and ensure there is proper coverage. These sessions will cover VoIP security concerns with regards to the protocol, the application, and the implementation of VoIP within the enterprise.

A list of set-up requirements were sent to the agency at least one month prior to commencement.

Wireless Pen Testing Mentoring Framework

The NYPD Information Security Team utilizes Cisco VoIP for telecommunications, Cisco, and other technologies for voice messaging. At this time, it is unknown if the VoIP implementation is standard across the various NYPD stations spread across the city. In addition, it is unknown if the VoIP solutions is up-to-date and free of important vulnerabilities.

These technologies will be utilized during content development and the duration of the mentored workshop.

PRIOR YEAR MENTORING REFRESH

- Penetration Testing – As the NYPD has requirements in place for Continuous Monitoring, The Sage Group would like to offer a refresher of prior year trainings as part of this engagement. This will include time spent in The Sage Group's Cyber Range where they NYPD team members can "practice" and refresh the tools and techniques learned in the prior year penetration testing training.

- On Demand – Flexibility is key and ensuring the NYPD has the latest skills and training is important to The Sage Group and NYPD's success. Depending on the needs and desires of the group, The Sage Group will "flex" with their needs and provide the training deemed critical by NYPD team members.

CISCO VoIP IMPLEMENTATION

The NYPD has requested training on VoIP technologies and the security risks inherent to the technology. The Sage Group will provide training around the VoIP implementation at NYPD Headquarters, including time spend on each of the below topics:

- VoIP Protocol
- VoIP Applications
- Vulnerability Scanning for VoIP Infrastructure
- VoIP and Encryption
- VoIP Architecture and Network Setup
- VoIP Best Practices
- Future Plans
- VOIP Vulnerability Assessment (PEN Testing)