



Greg Hacke
Technical Consultant

First, Last, Always

- Validate your System State
- Identify Deficiencies
- Determine Best Practices
- Implement Solutions
- Validate your System State



Infrastructure

- Identify Points of Intrusion
- Examine Penetration Risks
- Determine Access Requirements
- Seal the Breach



Platforms



- Identify End Points
- Determine Accessibility
- Establish Policy
- Examine Monitoring
- Implement Solutions

Zones

- Intranet vs. Extranet
- Internet Access
- TCP, UDP and the Devil
- Port Level Security



Threat

- We're Here.
- We're Coming In.
- We're Persistent.
- We're Knowledgeable.



What We Have

- Processes
- License
- Fiscals
- Plans



What They Want



- Operational Data
- User Data
- Fiscal Data
- Plans

Data, data everywhere

- And never a byte to eat...



Intellectual Property

- Future Proof
- Recovery Proof
- Litigation Proof
- Ownership Proof



Personal and Confidential



- Friend & Family
- Under the Table
- Legalese
- Deniability

Disaster Recovery

- Secure Data Stores
- Offsite Paradigms
- Offline Paradigms
- Zero-to-Sixty Recovery



Methods

Security isn't now and then.
It's 24/7



Infrastructure

- Experts
- Interfaces
- On the Dime
- WWW and You



Servers and Services



- TCP, UDP and the Devil
- Managed Access
- Ownership

End Points

- Desktops
- Laptops
- Tablets
- Phones
- Internal vs. External



Credentials



- Directory Services
- Kerberos and the KDC
- Authentication vs Authorization

Certificates

- TTP and CA
- Web of Trust



Certificate Services



- OpenSSL
- Microsoft ADACS
- Public Infrastructure

Choices

- Authentication vs. Authorization
- Management Operations
- Upkeep
- Control
- Scalability
- Stability

Private vs. Public

- Trust Chains
- TTP and the WoT
- CRL and Online Responders



Obtaining



- Trusted Roots
- Request Paradigms
- Templates
- Implementation

Revoking

- CRL
- Online Responder
- Root Corruption
- Breaking WoT



Tracking

- Operations
- Connectivity
- Legality



How & Why



- Managed Services
- Deployment
- Operational Engagement
- End User Experience

Limitations

- Throughput
- Granularity
- Accuracy
- Scope



Considerations



- Legality
- Accessibility

A close-up, high-angle shot of a vibrant red Swingline stapler. The stapler has a sleek, modern design with rounded edges and a glossy finish. A silver oval plate on the top features the 'Swingline' logo in a cursive script. The stapler is positioned diagonally across the frame, with its base and the stapling mechanism visible at the bottom left. The background is a plain, light-colored surface.

The Human Element



Questions

Considerations and Resources