CPTR 427 Lab #6 Name

Identity, Privacy and Email Security

# Research Questions:

1. What is identity? What is digital identity?
2. How do you provide your identity to service providers on the web today?
3. What privacy issues do you face in your interactions online?
4. How do you know your email is from who it says it is from?
5. What is Sender Policy Network (SPF)? Be specific! What does it do and not do and how does it work?
6. What is DKIM? Be specific! What does it do and not do and how does it work? Is it patented?
7. How does GNUPG or PGP help?

# Lab OPs

Prerequisites:

1. Watch <http://www.youtube.com/watch?v=RrpajcAgR1E> on identity.
2. You need access to an email account that you can see the headers on (see <http://mail.google.com/support/bin/answer.py?hl=en&answer=22454> for a directions on several popular email services)
3. Install GNUPG

# Demos

Demo each of the following in a separate screen capture session. When you are satisfied that each command is working correctly, show the annotated sessions to Dr. A. **Answer any questions after the required scan in the space provided. For some of these questions you will have to team up with a partner.**

1. Obtain a GNUPG key and use it to encrypt a message and trade the message with a partner. Show me the decrypted message.
2. What entries would you need to make in the colleges DNS to enable SPF? (Use the website)