Phishing Study Design Handout USEC - ECE750

1 Lessons from a real world evaluation of antiphishing training

Kumaraguru, Ponnurangam, et al. "Lessons from a real world evaluation of anti-phishing training." 2008 eCrime Researchers Summit. IEEE, 2008.

Hypotheses

- Hypothesis 1: A large percentage of people who click on links in simulated emails proceed to give some form of personal information in the real world.
- Hypothesis 2: PhishGuru (embedded training) is effective in training people in the real world.
- Hypothesis 3: People trained with spear training material make better decisions in identifying spear phishing emails compared to people trained with generic training material.

Conditions:

- Control no training
- Generic general training
- Spear phishing spear phishing specific training

Methodology flow:

- Day 0 Generic and spear conditions were sent a fake phishing email asking to click a link. Received training if clicked even if didn't enter user/pass.
- Day 2 All participants sent a fake phishing email, no training if they clicked.
- Day 7 All participants sent a fake phishing email, no training if they clicked.
- Day 10 All participants sent a legit email with a link.
- Day 20 Post-study survey sent out.

1.1 CIAAA

Think back to the definition of security we are using. What aspect of security is this training trying to improve?

1.2 Statistics tests

How are they testing each of the hypotheses? Think in terms of dependent and independent variables. Also consider what aspects they have decided to hold constant.

1.3 Deciding company policy

If you were asked by the company to recommend an anti-phishing approach that helped support users, would you recommend training users who click on fake phishing based on this paper?

1.4 Factors to consider

When deciding on an anti-phishing approach for your company, what factors might you want to consider?

2 New ideas

2.1 Alternative approaches

We have only minimally covered other approaches in class. This question is asking you to think creatively. What other ways might a user be trained or otherwise supported that would be alternatives to this approach. Why might they be better or worse?