EFFECT OF ELECTRONIC EVIDENCE CAPTURED BY HONEYPOTS

East China University of Political Science and Law
Yi Wang
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INTRODUCTION

- Electronic evidence becomes more and more important in evidence collecting.
  - Many cases infer e-evidence, in some cases it is the unique evidence.
  - New Code of Criminal Procedure amendment in China regards e-evidence as an independent type of evidence. It will be carried out in 2013.
- Electronic evidence’s attributes
  - Easy hidden
  - Easy modified
  - Easy erase
  - Time limited
Introduction-continue

Advantages of active forensic technique

- Capture important evidence that afterwards forensic can’t be collected.
- Know more about our adversary
COMPARING HONEYPOT WITH ENTRAPMENT

Definition of honeypot
- Honeypot is a security resource who's value lies in being probed, attacked or compromised.

Definition of entrapment
- American legal definition of entrapment is:
  --A person is 'entrapped' when he is induced or persuaded by law enforcement officers or their agents to commit a crime that he had no previous intent to commit.
Key criteria for judging entrapment

- be induced or persuaded by law enforcement officers or their agents.
- whether it will let common people without criminal intent emerges criminal intent.

How about honeypot—not belong to entrapment

- honeypot catches those who have already had criminal intent and implemented.
- Honeypot products are designed as when unauthorized access occurs, the connection is relocated into honeypot.
OTHER LEGALITY CHALLENGES

- **Privacy**
  - Q: honeypot will catch owners of stored information and intruders’ privacy.
  - A: use “Platform for Privacy Preferences”

- **Joint liability**
  - honeypot is attacked by intruders with unknown technique or the flaws. (that don’t set deliberately by operators of the honeypot)
    - Victim, like other ordinary intruded machines.
  - honeypot is attacked through the flaws set deliberately by the operators
    - Should take the responsibility of management oversight.
EVIDENCES EFFECT CAPTURED BY HONEYPOTS

- Precautions to maintain evidence’s effect
  - According to practical requirements select suitable honeypot products.
  - Clear the goal and strategy of your honeypot
  - Don’t ignore your honeypot

- Guidelines for evidence’s effectiveness justification
  - Evidences that qualified witnesses believe are true should be accepted.
  - Proving that a honeypot is normal in critical moment, the honeypot can be deduced that is in normal, evidences recorded by the honeypot should be accepted.
CONCLUSIONS

- Honeypots technique is very useful in information security.
- It is also an important method to collect valuable information from attackers.
- This technique is still in development, and legal problems are not settled down completely.
Thank you!