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## Incident Management

Moving from Computer Incident Response  
to Organizational Intelligence

# Session Agenda

- Module 1:
  - Some Scenarios Beg the Question(s)
  - Some Questions that Beg for Answers
  - Incident Management Job Description
  - Preparation & Practice
- Module 2:
  - Incident Response Exercise

True?

*“It takes many good deeds  
to build a good reputation, and only  
one bad one to lose it.”*

— Benjamin Franklin

Corrected

*“It takes many good deeds  
to build a good reputation, and only one  
poorly managed bad deed to lose it.”*

— Some other guy



# Some Scenarios Beg the Question(s)



## Some Scenarios that Beg the question

1. Customer allows remote access with single-factor authentication only.
  - Successful phishing attack, fraudster takes control of CFO's PC
  - Changes payroll routing information for 10 employees
2. Customer falls for Microsoft Support fraud pre-texting call
  - Fraudster impersonates Bank customer service in a conference call
  - "Bank Customer Service Rep" recommends customer buy support package
  - Customer pays \$1,200 for fraudulent support contract
3. Commercial lender accidentally sends entire commercial loan database/spreadsheet to the wrong "Steven Thomas" who happens to be a list salesman in Florida.

## Other Scenarios that Beg the question

- “Whaling” or “Whale Phishing”– An exploit spoofing executive email used to request transactions or actions to serve the perpetrator.
- Insider theft of customer information
- Compromise of a hosted POS system
- Disruption of service at vendor’s data center
- Social Engineering : On-site or customer & network phone pretexting

## The Questions

- Why is IT still considered the most important part of Incident Management?
- Why do tactics/procedures often drive Incident Response planning?





# Questions that Beg for Answers

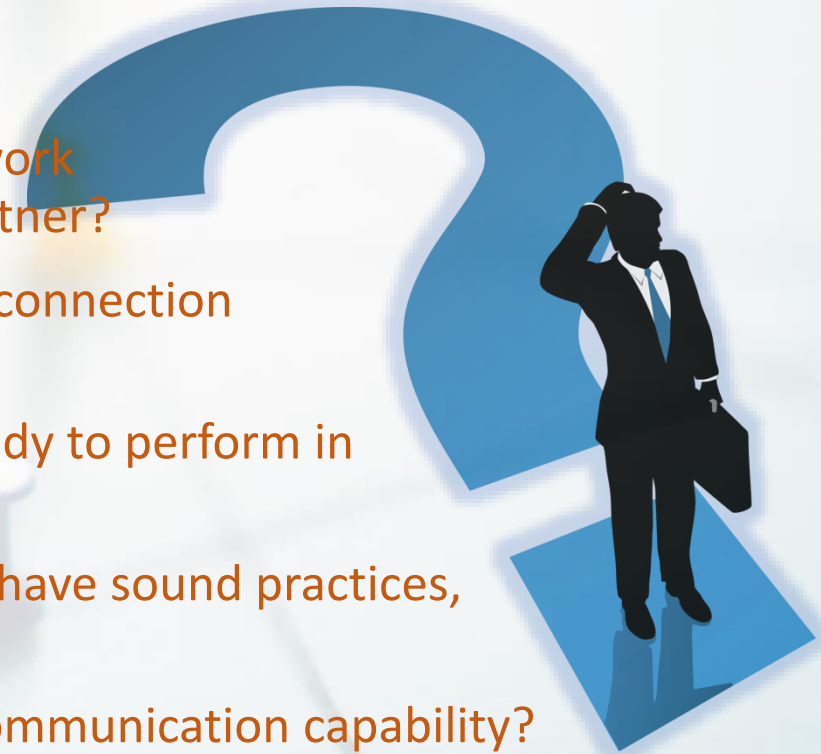


## Questions that Beg for Answers

- 1) What is the process at your organization for obtaining, analyzing, and sharing threat intelligence?
- 2) Who manages your threat intelligence feeds?
- 3) Should the threat of malware have any impact on user browsing activity?
- 4) What are your social media controls? Do you review user posts prior to publishing? Are you alerted when there is a post? Can you tell how many shares and views?
- 5) What are your procedures for risky transactions/functions?
- 6) How do you manage accidental disclosure of sensitive/protected data?
- 7) Do you have scripts, outgoing messages, web-site specific messages pre-written, pre-recorded, and/or pre-configured?

## Questions that Beg for Answers

- 9) Would you pay the ransom?
- 10) Do you have a Bitcoin Account?
- 11) Do you know when to contact and work with your insurer? Your forensics partner?
- 12) Do you have data flow and external connection diagrams/maps with all end-points?
- 13) Is each member of your IRT truly ready to perform in their role, with its responsibilities?
- 14) Are you confident your TSP/Vendors have sound practices, and are some required by contract?
- 15) Do you have an internal broadcast communication capability?
  - Is it capable of enumerating responses?





# Incident Management Job Description



# Incident Management Job Description

## Your Organization: Required Skills and Experience

- Expert leadership
- Expert operations
- Expert legal counsel
- Expert internal communications written and verbal
- Expert Information Technology design, engineering, and administration
- Expert analysis and investigation
- Expert customer service and public relations
- Expert learner
- Expert trainer
- Expert relationship builder



THIS IS TOO  
MUCH

IT Professional



# Incident Management Job Description

## IT Professional: Required Skills and Experience

- Expert leadership
- Expert operations
- Expert legal counsel
- Expert internal communications written and verbal
- **Expert Information Technology design, engineering, and administration**
- **Expert analysis and investigation**
- Expert customer service and public relations
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# Strategy & Tactics





## Strategy & Tactics

*“Strategy is doing the right things. Tactics are doing those things right.” - Anonymous*

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# Strategy & Tactics

## Strategic:

- ✓ Foresight
- ✓ Long-term goals and objectives
- ✓ Big picture
- ✓ Holistic
- ✓ Integrated
- ✓ Plan

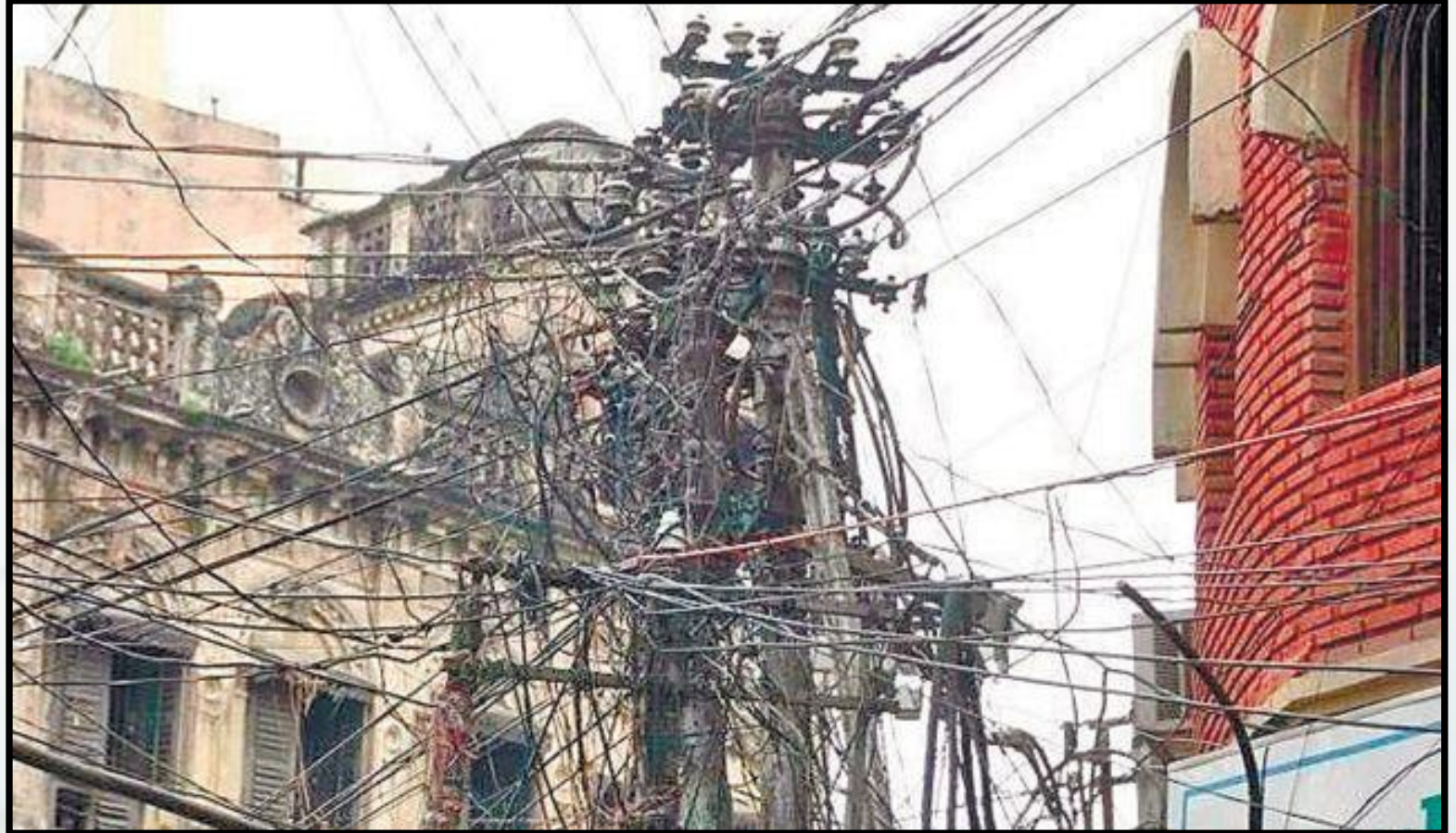
## Tactical:

- ✓ Immediate
- ✓ Short-term goals and objectives
- ✓ Small picture
- ✓ Situational
- ✓ Segregated
- ✓ Procedure

## Strategy & Tactics

If tactics aren't executed in support of a good strategy, here's what happens....

# Tactical-Based Governance





# Preparation & Practice

Preparation

*“Failing to prepare, is preparing to fail.”*

## Preparation

- Incident Management Plan
- Response Team
  - Build the team to the strategic resume of required skills and experience. Know your people!
  - Cross-departmental – whole organization
- Training specific to each role
- Mentoring & institutional memory
- Runbooks for Common Incident Types
- Internal communications plan
  - Call trees with contingency contacts
  - Contact information
  - Consistency across departments



# Preparation

- External communications plan
  - Develop scripts for customer service
  - Auto-attendant and outgoing messages
  - Web site pages
  - Understand applicable disclosure laws
  - Craft the messaging across all media
  - Assign messengers
- Information Technology
  - Redundancy and fault tolerance
  - “air gap” backups
  - Network segmentation
  - Application white-listing

*“You can’t think your way into playing the piano.” – Me, just now*

Practice





# Speaking of Practice: IR Exercise

