

INCIDENT RESPONSE PLANNING

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In coordination with
The Office of Homeland Security
CISA-Cybersecurity & Infrastructure Security Agency

IR/DR/BC

- Incident Response
- Disaster Recovery
- Business Continuity

INCIDENT RESPONSE PLAN

1. Prepare
2. Identify
3. Containment
4. Eradicate
5. Recovery
6. Learn
7. Review, Test, Train & Maintain



PLANNING OBJECTIVES

DEFINE THE PROBLEM

- State the reason for the plan.
- Keep it simple, covering as many situations as possible.
- Know your budget, planning timeline, technical requirements, and what you are expected to deliver



CYBER RISK INSURANCE

- Review your policy
 - What is Covered?
 - Category-breach, data loss, ransomware, etc.
 - What is considered cyber risk as opposed to normal coverage?

PREPARE

- Build a team
- Risk assessment
- Contingencies
- Tools



BUILDING A TEAM

- Team leader
- Investigator
- Communications
- Documentation
- HR/Legal representation

Create Roles & Responsibilities

BUILDING TEAMS

- Crisis Management
- Emergency Response
- Communications
- Everyone Else

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CHOOSING TEAM MEMBERS

Try to recruit members with the following in mind:

- Organizational placement, who can make decisions
- Technical proficiency
- Existing training and location
- Outside organizations
- Emergency response
- Cross training in case member not available.



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TEAM RESPONSIBILITIES

- Maintain a checklist.
- Confirm priorities have not shifted.
- Expectations of the team
- Communicate milestones reached to the team leader.

DOCUMENT KEY CONTACTS

Contact	Phone
Superintendent	
CIO, CFO, Tech Director	
Communications Director	
General/Legal Counsel	
HR Director	
Insurance Co-Cyber Risk Policy	
Law Enforcement	
Credit Monitoring Services	
Vendors	

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RISK ASSESSMENT

- Policies & procedures
- Infrastructure
- Personnel
- Define the threat & symptoms
 - Attacks
 - Malware, viruses
 - Ransomware
 - Data breach credential theft
 - Phishing
 - Insider threat



MITIGATION IS RISK MANAGEMENT



1. Analyzing
risk

2. Reducing risk

VULNERABILITY ASSESSMENT

- Utilize questionnaires, interviews, document reviews, and research.
- Rate each risk you have identified on a vulnerability scale.
- Now you can assign values to all identified risks.

RISK LEVEL MATRIX_(QUALITATIVE)

RED=UNACCEPTABLE YELLOW=HIGH ORANGE=MEDIUM BLUE=LOW

		IMPACT			
LIKELIHOOD	Catastrophic 5	Critical 4	Serious 3	Minor 2	Insignificant 1
Almost Certain 5	25	20	15	10	5
Likely 4	20	16	12	8	4
Possible 3	15	12	9	6	3
Unlikely 2	10	8	6	4	2
Improbable 1	5	4	3	2	1

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THREAT ASSESSMENT APPROACHES

- Quantitative
- Qualitative



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OTHER CONSIDERATIONS RTO VS RPO

- Recovery Time Objective – How quickly you can recover
- Recovery Point Objective – How much data loss can you tolerate to a point of operational functionality

TYPES OF RISK MANAGEMENT STRATEGIES



- Risk Acceptance or the Do-Nothing strategy
- Risk Avoidance
- Risk Limitation
- Risk Transference

RISK MANAGEMENT SUMMARY

- Secure functions as much as possible
- Putting management or stakeholders in a position to make the best decisions possible for business functions.

CONTINGENCIES

- Alternate location
- Phone access
- Alternate personnel
- Access to hardware
- Business continuity

Mitigation Plans

- ✓ Understand the users and their needs
- ✓ Seek out the experts and use them
- ✓ Recognize risks that reoccur
- ✓ Determine the scope of an event
- ✓ Plan 'B'

STEPS TO TAKE FOR RECOVERY

- Implement Risk Mitigation
- Outline what it will take for the plan to be activated
 - Minor
 - Intermediate
 - Major
- Outline triggers
- Communication



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JUMP BAG

GRAB AND GO

- Switches – New, Old, Stealable
- Cell Phone
- Software-AV, packet sniffer
- Hard drives – spare, external
- Laptops - w/ diagnostics software
- Bootable device, usb,
- Hotspot – Who, what, and where.
- Cables
- Toolbox-screwdrivers, cable crimpers/testers, etc

Copy of IR
plan,
Journal and
contact list

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HOMework

- Identify Team members
 - Assign roles and responsibilities
- Identify key contacts
- Risk assessment
- Compile a jump bag



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QUESTIONS