



INCIDENT RESPONSE GUIDE

# Data Breach Response Playbook

A step-by-step framework for detecting, containing, eradicating, and recovering from data breaches—plus regulatory compliance guidance.

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# Executive Summary

When you discover a data breach, the first hours and days are critical. How you respond determines whether the incident becomes a contained security event or a catastrophic business failure.

**\$4.88M**

Average cost of a data breach in  
2024 (IBM)

**\$1.5M**

Savings with IR team & tested  
plan

**277**

Average days to identify &  
contain

## The 6-Phase Framework

This playbook follows the industry-standard incident response lifecycle:

Phase	Objective	Timeline
1. Detection	Confirm incident, assemble team, preserve evidence	Hours 0-4
2. Containment	Stop the bleeding, prevent spread	Hours 4-24
3. Eradication	Remove attacker presence completely	Days 1-7
4. Recovery	Restore operations safely	Days 7-30
5. Legal/Regulatory	Meet compliance obligations	Per regulation
6. Post-Incident	Learn and improve	Days 30-60

**Key Insight:** Organizations that detect breaches within 200 days save an average of \$1.02 million compared to those taking longer. Early detection through dark web monitoring can cut detection time to minutes.

## 1 Phase 1: Detection & Initial Assessment

### 1 Confirm the Breach

Not every security alert is a breach. Before activating full incident response:

- ☐ Verify the legitimacy of the alert or report
- ☐ Gather initial evidence (logs, screenshots, alerts)
- ☐ Determine if this is a false positive or actual compromise
- ☐ Document the discovery time and method
- ☐ Classify severity: Critical / High / Medium / Low

### 2 Assemble the Incident Response Team

Immediately notify and convene your IR team:

Role	Responsibility
<b>Incident Commander</b>	Overall decision authority and coordination
<b>IT/Security Lead</b>	Technical investigation and remediation
<b>Legal Counsel</b>	Regulatory compliance and legal exposure
<b>Communications</b>	Internal and external messaging
<b>Executive Sponsor</b>	Business decisions and resources
<b>HR (if needed)</b>	Insider threat or employee notification

### 3 Preserve Evidence

Before making any changes to systems:

- ☐ Capture memory dumps from affected systems
- ☐ Export and preserve logs before rotation/deletion
- ☐ Take forensic images of compromised systems
- ☐ Document all actions taken (chain of custody)
- ☐ Screenshot dark web postings or threat actor communications

**Critical:** Evidence preservation must happen BEFORE containment actions. Shutting down or reformatting systems destroys valuable forensic evidence.

## 2 Phase 2: Containment

### 4 Implement Short-Term Containment

Limit damage while maintaining evidence and business operations:

- ☐ Isolate affected systems from the network (don't power off yet)
- ☐ Block attacker IP addresses and C2 domains at firewall
- ☐ Disable compromised user accounts
- ☐ Force credential resets for affected accounts
- ☐ Increase monitoring and logging across all systems
- ☐ Implement emergency firewall rules if needed

### 5 Assess the Scope

Determine what was compromised by answering these questions:

- ☐ Which systems were accessed?
- ☐ What data was stolen, encrypted, or modified?
- ☐ How many records/users are affected?
- ☐ What was the initial entry point?
- ☐ How long did attackers have access?
- ☐ Are there additional persistence mechanisms or backdoors?
- ☐ Is data appearing on dark web leak sites?

### 6 Implement Long-Term Containment

Establish sustained defensive posture:

- ☐ Apply emergency patches to exploited vulnerabilities
- ☐ Force password resets for potentially compromised accounts
- ☐ Implement additional access controls and monitoring
- ☐ Segment network to prevent lateral movement
- ☐ Review and harden security configurations
- ☐ Deploy additional endpoint detection tools

**Balance Speed with Thoroughness:** Rushed containment without understanding scope often leads to incomplete remediation and re-infection.



### 3 Phase 3: Eradication

#### 7 Remove Attacker Presence

Eliminate all attacker access and persistence mechanisms:

- ☐ Remove malware, ransomware, and hacking tools
- ☐ Delete unauthorized user accounts and backdoors
- ☐ Close exploited vulnerabilities through patching
- ☐ Reset all potentially compromised credentials
- ☐ Rebuild severely compromised systems from known-good backups
- ☐ Update endpoint protection signatures
- ☐ Block newly identified malicious indicators

#### 8 Verify Complete Remediation

Ensure attackers cannot return:

- ☐ Conduct full security scans across environment
- ☐ Review logs for any remaining malicious activity
- ☐ Verify all backdoors and persistence mechanisms removed
- ☐ Test security controls are functioning properly
- ☐ Validate patches were applied correctly
- ☐ Confirm no unauthorized accounts remain

**Don't Restore Yet:** Restoring from backups before completing eradication risks re-introducing the attacker's tools or restoring compromised data.

## 4 Phase 4: Recovery

### 9 Restore Operations

Safely return systems to production:

- ☐ Verify backups are not compromised before restoration
- ☐ Restore from clean backups or rebuild systems
- ☐ Implement additional monitoring on restored systems
- ☐ Gradually bring systems back online with validation
- ☐ Monitor closely for signs of re-infection (48-72 hours minimum)
- ☐ Validate business operations are functional

#### **Restoration Priority Order:**

1. Critical infrastructure (authentication, DNS, network)
2. Business-critical applications
3. Customer-facing services
4. Internal productivity tools
5. Non-essential systems

### 10 Implement Enhanced Security

Don't just return to the previous state—improve defenses:

- ☐ Address vulnerabilities that enabled the breach
- ☐ Implement recommendations from IR investigation
- ☐ Deploy additional security controls and monitoring
- ☐ Update incident response procedures based on lessons
- ☐ Consider additional security investments (EDR, SIEM, etc.)
- ☐ Implement dark web monitoring for early threat detection

## 5 Phase 5: Regulatory & Legal Response

### 11 Determine Notification Requirements

Work with legal counsel to understand your obligations:

Regulation	Notification Window	Triggers
<b>GDPR</b>	72 hours	EU personal data affected
<b>HIPAA</b>	60 days / Immediately if 500+	PHI breach
<b>PCI DSS</b>	Immediately	Cardholder data compromised
<b>US State Laws</b>	Varies (24 hrs - 90 days)	State resident PII
<b>SEC Rules</b>	4 business days (Form 8-K)	Material incident

### 12 Notify Affected Parties

When required, notify promptly and transparently:

- ☐ Regulatory authorities within required timeframes
- ☐ Affected customers/users with clear, honest communication
- ☐ Credit monitoring services if financial data compromised
- ☐ Law enforcement (FBI IC3, local cybercrime units)
- ☐ Cyber insurance provider (required for claim)
- ☐ Business partners if their data was affected

### 13 Manage External Communications

Control the narrative and maintain trust:

- ☐ Prepare holding statement for media inquiries
- ☐ Update website with incident information (if required)
- ☐ Designate single spokesperson for all media contacts
- ☐ Monitor social media and news coverage
- ☐ Provide regular updates as investigation progresses

## 6 Phase 6: Post-Incident Activities

### 14 Conduct Post-Incident Review

Within 2-4 weeks after containment, hold a blameless retrospective:

- ☐ Document complete timeline of events
- ☐ Identify what happened and how it happened
- ☐ Analyze why existing controls didn't prevent/detect it
- ☐ Identify what worked well in the response
- ☐ Identify what didn't work or caused delays
- ☐ Create prioritized remediation roadmap
- ☐ Update incident response plan based on lessons

### 15 Implement Long-Term Improvements

Turn the incident into organizational resilience:

- ☐ Address root causes identified in post-incident review
- ☐ Implement approved security improvements
- ☐ Update security policies and procedures
- ☐ Provide additional training to staff
- ☐ Conduct penetration testing to validate improvements
- ☐ Schedule tabletop exercises quarterly
- ☐ Review and update cyber insurance coverage

**Continuous Improvement:** Every breach is a learning opportunity. Organizations that conduct thorough post-incident reviews become significantly more resilient.

# Quick Reference: First 24 Hours

## Hour 0-1

- ☐ Confirm breach is real (not false positive)
- ☐ Activate incident response team
- ☐ Begin evidence preservation
- ☐ Notify IT/Security leadership

## Hours 1-4

- ☐ Complete initial evidence collection
- ☐ Begin short-term containment
- ☐ Isolate affected systems
- ☐ Block known malicious indicators
- ☐ Notify legal counsel

## Hours 4-12

- ☐ Complete scope assessment
- ☐ Identify affected data types and volume
- ☐ Determine regulatory notification requirements
- ☐ Engage external IR firm if needed
- ☐ Brief executive leadership

## Hours 12-24

- ☐ Implement long-term containment
- ☐ Begin eradication planning
- ☐ Prepare customer/regulatory notifications
- ☐ Contact cyber insurance provider
- ☐ Prepare external communications

## Critical Mistakes to Avoid

**Don't Delete Evidence** — Shutting down or reformatting systems before forensics destroys critical evidence needed for investigation and legal proceedings.

**Don't Go Dark** — Failing to communicate with stakeholders creates speculation, erodes trust, and can make the situation worse.

**Don't Pay Ransoms Without Consultation** — Payment doesn't guarantee data return, may violate OFAC sanctions, and funds criminal enterprises.

**Don't Miss Notification Deadlines** — Regulatory penalties for late notification can exceed the cost of the breach itself.

# IR Contact Information Template

Complete this template **BEFORE** an incident occurs:

## Internal Team

Role	Name	Phone
Incident Commander		
IT/Security Lead		
IT/Security Backup		
Legal Counsel		
Communications/PR		
CEO/Executive Sponsor		
CFO		
HR Director		

## External Partners

Organization	Contact	Phone/Email
Cyber Insurance		
IR/Forensics Firm		
Outside Legal Counsel		
PR/Crisis Communications		
FBI Cyber Division	ic3.gov	
Local FBI Field Office		

## Early Detection Saves Millions

AdverseMonitor alerts you within minutes when your organization appears on dark web leak sites—giving you critical early warning to contain breaches faster.

[platform.adversemonitor.com/signup](https://platform.adversemonitor.com/signup)

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