

# Ransomware Prevention & Response Checklist

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# **Ransomware Prevention Checklist**

PEC	OPLE CONTROL OF THE PROPERTY O
	Conduct regular security awareness training to educate employees not to open or click on links from unknown sources
PRO	OCESS
	Keep relevant systems fully patched
	Run scheduled checks to identify available patches and install these as soon as feasible
	Employ zero trust principles in all networked systems by managing access to all network functions
	Segment internal networks to prevent malware from spreading among potential target systems
	Allow installation and execution of authorized apps only
	Configure operating systems to run only authorized applications
	Inform your technology vendors of your expectations (e.g., in contract language) that they will apply measures that discourage ransomware attacks
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## Ransomware Response Checklist

IMMEDIATE RESPONSE		
	Shut down systems and disconnect from network Isolate your backups	
	Disable all shared drives that hold sensitive information  Issue alert to customers and employees and provide next steps  Contact law enforcement to report attack  Assemble your task force and determine the scope of the damages	
PO	Identify the attack path used to infiltrate network  ST ATTACK ACTIONS	
10	OT ALLACK ACTIONS	
	Identify and mitigate vulnerabilities to avoid future attacks  Restore files from backup	

It is important to develop, implement, and regularly exercise an incident recovery plan with defined roles and strategies for decision making. This can be part of a continuity of operations plan. The plan should identify mission-critical and other business-essential services to enable recovery prioritization, and business continuity plans for those critical services.

Maintain an up-to-date list of internal and external contacts that need to be notified in the event of a ransomware attack including law enforcement, legal counsel, and an incident response team.



### Overview

Ransomware penetration testing evaluates the preparedness and risk of a ransomware attack. Our comprehensive assessment identifies gaps in people, processes, and technology, to determine the likelihood and readiness for a ransomware attack.

In addition to a complete analysis of the security program against the Cybersecurity Framework Profile for Ransomware Risk Management (NISTIR 8374), and a technical assessment of security controls, a full penetration test is conducted to measure the robustness of your systems.

#### **Learn More**

# Why Conduct a Ransomware Penetration Test?

- Identify the impact of potential ransomware attacks
- Detect gaps in policies and processes
- Ensure backups are secure and uncompromisable
- Protect sensitive information
- Provide proactive protection
- Prepare your team for potential attacks

### Ransomware Penetration Testing Service Highlights



Identify lateral movement protocols



Protect sensitive information



Detect evasion scenarios



Build response capabilities



Identify recovery capabilities



Technical assessment components



Non-technical assessment components



Preparedness evaluation



### **Additional Resources**



Learn more about securing your company against ransomware attacks.

Read article >



Learn more about the top 3 ransomware vectors and their preventative measures.

Read article >



Learn more about the pros and cons of paying ransom to malicious hackers.

Read article >

### Packetlabs Ltd.

Packetlabs is an IT consulting firm specializing in expert penetration testing. We offer a number of services to help strengthen your security posture including infrastructure penetration testing, web and mobile application testing, social engineering, red team exercises, source-code reviews and exploit development. Our clients are in a number of industries including government, finance, education, technology, media, retail, healthcare and energy.

Our slogan, "Penetration Testing beyond the checkbox" illustrates our commitment to the industry to provide expert-level penetration testing. Our consultants think outside of the box, find weaknesses others overlook, and continuously learn new ways to evade controls in modern networks.

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### The Packetlabs Advantage







