Contract Agreement #PP-IT-233

Penetration Testing

Delivering on the promise of technology

Staying Ahead of Hackers

Data loss from a hacking incident can be devastating for businesses. Personally identifiable information (PII) needs to be secure not only to maintain individuals' privacy and keep your business operating, but also to stay compliant with various requirements such as HIPAA/PCI-DSS and avoid regulatory penalties and fines. The worst time to find out about inadequate security is when data defenses are being pitted against a determined intruder. Data hackers are relentless; they stay aware of opportunities waiting to strike—shouldn't *you* be the first to know your vulnerabilities?

Controlled penetration testing (CPT) stages an emulated attack on your system without financial or regulatory consequence—*before* a cybercriminal does. By comprehensively testing and probing for vulnerabilities, CPT analyzes the ability of the existing IT infrastructure, such as routers, firewalls, applications, and server operating systems, to withstand cyberattack. Successful exploits are translated to strategic and tactical recommendations to secure the environment.

Our core business at Collective Group is to stay on top of the constantly evolving hacker landscape. Harness the skills and knowledge of our experts for your IT security, and get back to focusing on *your* core business.

Why perform CPT for your business?

- ✓ Know the vulnerabilities within your IT environment before a cyberattack occurs.
- ✓ See through the blind spots and gaps that your IT team might miss due to lack of expertise or unfamiliarity with the latest attack vectors.
- ✓ Test your cybersecurity technology investments for their effectiveness in the face of a sophisticated attack.
- ✓ Verify and strengthen your network security controls against the latest threats.
- ✓ Avoid regulatory penalties by staying compliant with HIPAA and PCI-DSS requirements.

Imposed regulatory fines up to $16.8 million have ranged from a major-insurer PHI breach of 10+ million people's data to at least $575 million for the Equifax breach of nearly 150 million people's data.

Don't let your business become a statistic.

About Collective Group

Since 1994, Collective has delivered more than 7 million hours of world-class IT services to clients across the United States. Our healthcare clients benefit by receiving the technical expertise we have gained from working with notable hardware and software partners over the years, such as EMC, Dell, NetApp, Microsoft, and Veritas. Our services are tailored to the specific needs of your team and environment. Choose Collective to deliver a standard of excellence and help you achieve your technology and business goals.

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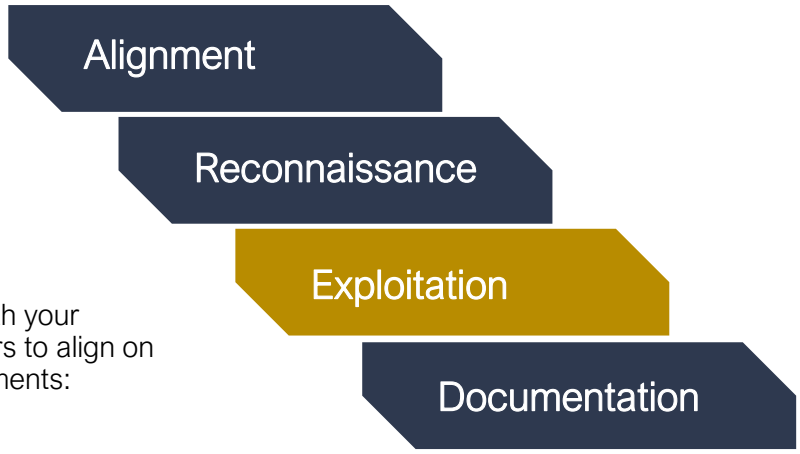
CPT Process and Results



Phase 1: Alignment

Collective Group meets with your leadership and stakeholders to align on project scope and requirements:

- ✓ IP range
- ✓ Timing for testing
- ✓ Communication strategy
- ✓ Activities
- ✓ Risks

Phase 2: Reconnaissance

Using commercially available software, freeware, shareware, and custom scripts, Collective analyzes your infrastructure to determine what vulnerabilities exist and which have the highest risk for attack. We probe for firewalls, intrusion detection systems, and access control lists searching for back doors, as well as collect user accounts and passwords.

Phase 3: Vulnerability Exploitation

Our cybersecurity experts actively target your vulnerabilities using public and private exploitation codes and tools. We attempt privilege escalation on accounts and try to remove tools, utilities, and files—just as a hacker would.

Phase 4: Results Documentation and Presentation

The Collective team details and presents your vulnerabilities, revealing successful exploitations, depth of infiltration, and performance of countermeasures. Based on the exploited vulnerabilities, we make strategic and tactical recommendations to strengthen the security of your systems and data.

Why choose Collective?

Expertise in healthcare IT:

Cybersecurity	UNIX/Linux
Database admin.	Virtualization
Data storage	Networking
Data migration	Cloud
Windows	HIPAA

Extensive history with IT clients:

Ohio Co. Healthcare	Fresenius	Citi
Johnson & Johnson	Medline	eBay
TX Children's Hospital	MultiCare	Yahoo
Molina Healthcare	Carevide	MGM
Weill Cornell Medicine	Bio-Rad	WAMU
BlueCross BlueShield	VisionWeb	FedEx