



Cyber Security

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# What is Penetration Testing & Why it is Crucial for Organizations?

## What is Penetration Testing?

Penetration testing is meant to assess your security before an attacker does. Penetration testing tools simulate real-world attacks to find and exploit security gaps that may lead to stolen records, compromised credentials, intellectual property, personally identifiable information (PII), cardholder information, personal, protected health information, data ransom, or different harmful business outcomes. By exploiting security vulnerabilities, penetration testing helps you identify how to mitigate and protect your important business information from future cybersecurity attacks. Cyber Security Hive is the number one option for high-quality **penetration testing services in India** and other cybersecurity services.





# Why Penetration Testing is Crucial for Organizations?

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## How is Penetration Testing Performed?

Penetration testing can either be done in-house by your specialists using pen-testing tools, or you can outsource to a penetration testing services provider. A penetration test starts with the skilled security professional enumerating the target network to search for vulnerable systems or accounts. This means scanning every system on the network for open ports that have services running on them. A complete network rarely has every service configured properly, password-protected, and fully patched.

Once the penetration tester encompasses a smart understanding of the network and the vulnerabilities that are present, he/she can use a penetration testing tool to take advantage of a vulnerability to gain unwelcome access.

## How Do You Test the User Risk to Your IT Security Chain?

Your users present an additional risk factor. Attacking a network via human error or





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Compromised credentials are a critical attack vector. After a year, a trend proven by the Verizon Data Breach Investigation Report, the top job is to resolve the security mentioned above. One can try brute-force password guessing of disclosed applications. While compromising one machine, lateral movement to eventually land on a critical system is a common way to test the security of your network users is via a simulated phishing attack.

Phishing attacks use personalized communication strategies to convince the target to do something, not in their best interest. Cyber Security Hive is listed **among India's top Penetration testing companies** dedicated to defending your organization from security threats if you are looking for Penetration Testing services.

## What Does Penetration Testing Mean to a Business?

A penetration test is a crucial component of security. Through these tests, a business can identify:

- Security vulnerabilities before a hacker do
- Gaps in information security compliance
- The response time of their information security team, i.e., how long it takes the team to realize that there is a breach and mitigate the impact
- The potential real-world effect of a data breach or cybersecurity attack
- Actionable remediation guidance

Security professionals will effectively identify and test the safety of multi-tier network architectures, custom applications, internet services, and different IT components through penetration testing. These penetration testing tools and services assist you in gaining quick insight into the highest risk areas so that you may effectively set up security budgets and projects. If you are looking for the best **Penetration testing companies in India**, *Cyber Security Hive* is the right choice. Schedule a demo today and access our

