

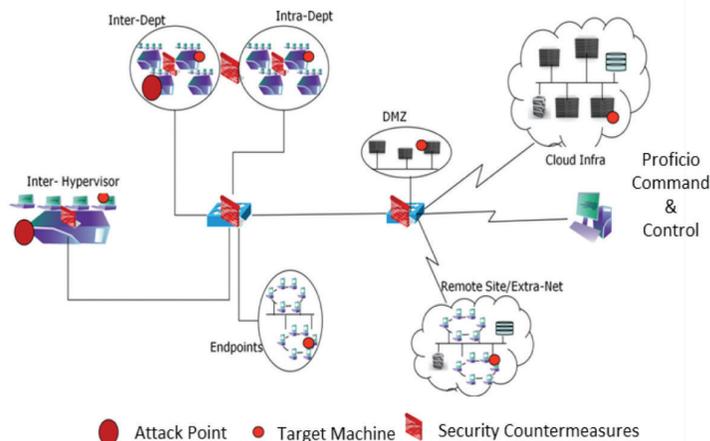
On-Demand Penetration Testing Solution Overview

Security Breaches & their Business Impact

According to InfoSecurity research group, a business with less than 10,000 employees typically invests approx. \$15M/year in upgrades and deploying new security solutions and services. Larger companies spend many times more. On average most businesses deploy dozens of different security solutions including Firewalls, Intrusion Prevention, Data Loss Prevention, Anti-X, endpoint security, behavioral monitors, SIEM and many more.

Despite such large investment and dozens of deployed security solutions, there are almost daily reports of high-profile security & cyber-breaches. Because one of the key issues lacking in Enterprise security strategy, is performing a frequent verification of detection & prevention effectiveness of deployed security infrastructure. Typically, most businesses only bring in 3rd-party security firms to perform pen-testing or Ethical Hacking services one time a year.

Pen-testing & ethical hacking may be necessary, by no means they are sufficient or adequate if performed only once a year. Since once the service is complete, the rest of the year CIO/ CISO or IT teams have no visibility about the state of readiness/ effectiveness of security in their infrastructure. Therefore, an effective business security strategy should include frequently performed verification of internal security infrastructure readiness against most commonly used, most recent and most dangerous cyber-threats and attack techniques.



Proficio's On-Demand Penetration Testing provides periodic measurement of readiness and effectiveness of your security infrastructure

A purpose-built testing platform designed to provide a consistent, frequently repeatable verification of the detection and prevention effectiveness of deployed security controls. It can simulate hundreds of most recent, dangerous & complex security breach and attack scenarios to verify the deployed security infrastructure and controls are working properly. It comes with various complex, multi-stage, multi-step, security-breach and attack simulation scenarios, that simulate actual attacks & threat propagation techniques.

The Proficio On-Demand Pen-testing platform utilizes an Attacker-Target methodology to methodically test the entire infrastructure inside-out, from intra-hypervisor (east-west) security zones, critical servers and their respective security zones, Endpoints, DMZ, extra-nets, to PVCs. The Attacker/Target include strategically placed virtual appliance/agent combination to simulate many different attack scenarios and generating security breach & infiltration scenarios at various security monitoring and enforcement points in the business infrastructure.

With Proficio On-Demand verifying deployed security controls, is a simple three step process

- **Step One** - Deploy the Attacker and Target agent/appliances where appropriate to periodically verify the deployed security controls in the path between these Attacker & Targets
- **Step Two** - Configure the target agent/appliance as part of possibly the most secure groups of internal servers so the deployed security controls provide the highest level of security
- **Step Three** - Run the hundreds of built-in breach & infiltration scenarios to see if the deployed security solutions can detect, report and prevent them.

Here are some of subscription-based pen-testing and ethical hacking services we have available

1. Network Service Package: The network services packages go above and beyond traditional pen- testing to simulate and test three major infrastructure threat scenarios. These include:

- standard outside-in testing to ensure your network ingress/egress point is well-protected from outside threats that routinely target business networks such as many variations of D/DoS, vulnerability exploit based attacks, firewall cracking and others.
- inside-out testing to ensure, if by any chance if any part of the network is compromised, that deployed security infrastructure detects and prevents any threat from sending out sensitive business data, prevent unauthorized communication, malware and other types of download initiated by potential internal threat etc.
- local testing to ensure that internal threat propagation is identified quickly and prevented from infecting other resources, stealing information or making unauthorized access to restricted resources (whether intentional or unintentional) etc.

2. Endpoint Golden Image Security Verification

Service: Endpoints create one of the most critical potential attack surfaces in the Enterprise Infrastructure. Ensuring that the IT approved Endpoint golden image with all security tools and security policies on them, provides adequate protection for various end-user specific threats, should be an essential part of Enterprise security strategy. Utilizing the Endpoint Agent, this services verifies many different end-user specific threats, OS and Apps attacks etc. to provide a detailed analysis of how effective deployed security controls and policies are on a user's endpoint.

3. PCI-DSS Compliance: PCI compliance checks through vulnerability scanners may be a good first-step, however an evidence-based compliance verification of PCI-DSS server security zones and networks access are absolutely required to ensure continuous compliance. That's precisely what Proficio's PCI-DSS compliance verification service provides. It simulates PCI-DSS compliance security breach scenarios to check if the deployed security measures and access controls are adequately enforcing required compliance. It provides collected evidence of actual simulated scenarios as adequate proof to compliment compliance audit reports.

Key Benefits

Inside-Out security-breach and attack simulations are an essential measure for Enterprises to implement so that the production security infrastructure (deployed security solutions), defenses and prevention methods are frequently and thoroughly verified. Proficio is currently is the only MSSP solution that provides an in-depth, real-life simulation verification for this purpose. Some of the key benefits are:

- **Business Intelligence on Deployed Security Solution Effectiveness:** Generates real-time continuous business intelligence & ROI analysis on the effectiveness of deployed security solutions as well as readiness against different types of attacks and cyber-kill-chain scenarios – based on readiness Index whit historical graph displaying improvement in threat and security preparedness for CISO, CIO and Board review.
- **Comprehensive Security & Cyber-breach Scenario Simulations:** Provides thorough, multi-step, multi-stage cyber-kill-chain scenarios, most recent threat advisory-based scenarios and other deep simulation scenarios to verify the detection & prevention effectiveness of deployed security infrastructure from Firewalls, IPS to Honey-pots and everything in-between.
- **Zero-Impact on production Servers or Endpoints:** Performs hundreds of real-time, real-life security-breach and infiltration scenarios to verify deployed security solutions across the entire infrastructure without impacting any of the servers or endpoints in the enterprise.
- **Attacker-Target based Multi-Appliance System:** Deploys self-contained virtual appliances and/or Endpoint Agent across the entire infrastructure for comprehensive testing methodology including intra-hypervisor (east-west) targets, inter-hypervisor targets, extra-net/DMZ targets & cloud-server targets.
- **Seamless Vendor-Neutral Verification:** Verifies effective-ness and readiness of most types of Detection and Prevention security solutions (NG-FWs, WAF, IPS, Antivirus/Anti-Malware/Anti-X, DLP, NAC, Behavioral monitors, SIEMs etc.) and Deceptive Technologies like Active Honey Pots and others.
- **Deploy Anywhere:** Can be used on-premise or in the cloud to ensure fool-proof security deployment. It's compatible with AWS, MS Azure, VMWare or OpenStack based public & private Clouds.



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