



SECURITY VALIDATION FOR MANUFACTURERS

Modern-day digitization initiatives are converging once-isolated Operational Technology (OT) environments with their Information Technology (IT) counterparts. This reality creates new challenges in securing manufacturing environments as cyber-attacks originating on the IT side can quickly ingress into the OT environment.

Ensure operational continuity with Automated Security Validation by Pentera



VALIDATE security controls continuously to protect critical systems.



VERIFY proper IT/OT segmentation to avoid cascading effects.



REMEDiate the damage bearing security gaps to improve readiness.

Use Cases

Ransomware Defense Validation

Safely emulate complete ransomware attacks to test readiness against ransomware in your live environment.

- Act before compromise by pinpointing specific weak spots in your security stack
- Test real attack flows of the most prevalent ransomware strains as seen in the wild

Security Control Validation

Continuously validate your security tools and processes to ensure they safeguard your IT and OT infrastructure from cyber attacks.

- Identify deployment and configuration issues that attackers can exploit in your live environment
- Execute real bypass attempts on existing controls to assess their defense capabilities

Security Posture and Readiness Assessment

Evaluate your security resilience across IT/OT environments to quickly identify “spill-over” and minimize its impact on your business.

- Test production environments like an attacker - without playbooks or scripts
- Track risk exposure trends across your internal and external attack surfaces

Continuous Automated Penetration Testing

Quickly identify security gaps and accelerate remediation by performing ongoing validation tests - daily, weekly, or monthly.

- Run hundreds of MITRE ATT&CK TTPs and multi-stage attacks at scale
- Eliminate achievable attack paths based on evidence from real testing in production

Credential Exposure Validation

Continuously monitor stolen and compromised credentials against your complete attack surface to preempt breaches.

- Reduce manual work by correlating threat intelligence with active credentials
- Identify and remediate leaked and stolen credentials exposure based on true impact

Pentera Platform Highlights



SAFE BY DESIGN

Safely emulate attacks in production without any impact on business continuity.



AGENTLESS ARCHITECTURE

Gain seamless enterprise-wide security validation without the need to deploy agents.



ADVERSARIAL PERSPECTIVE

Use real attacks to evaluate the effectiveness of your security controls to uncover exploitable security gaps across internal and external attack surfaces.



FULLY AUTONOMOUS

Offload repetitive tasks from your security teams with automated reconnaissance and attack propagation techniques.



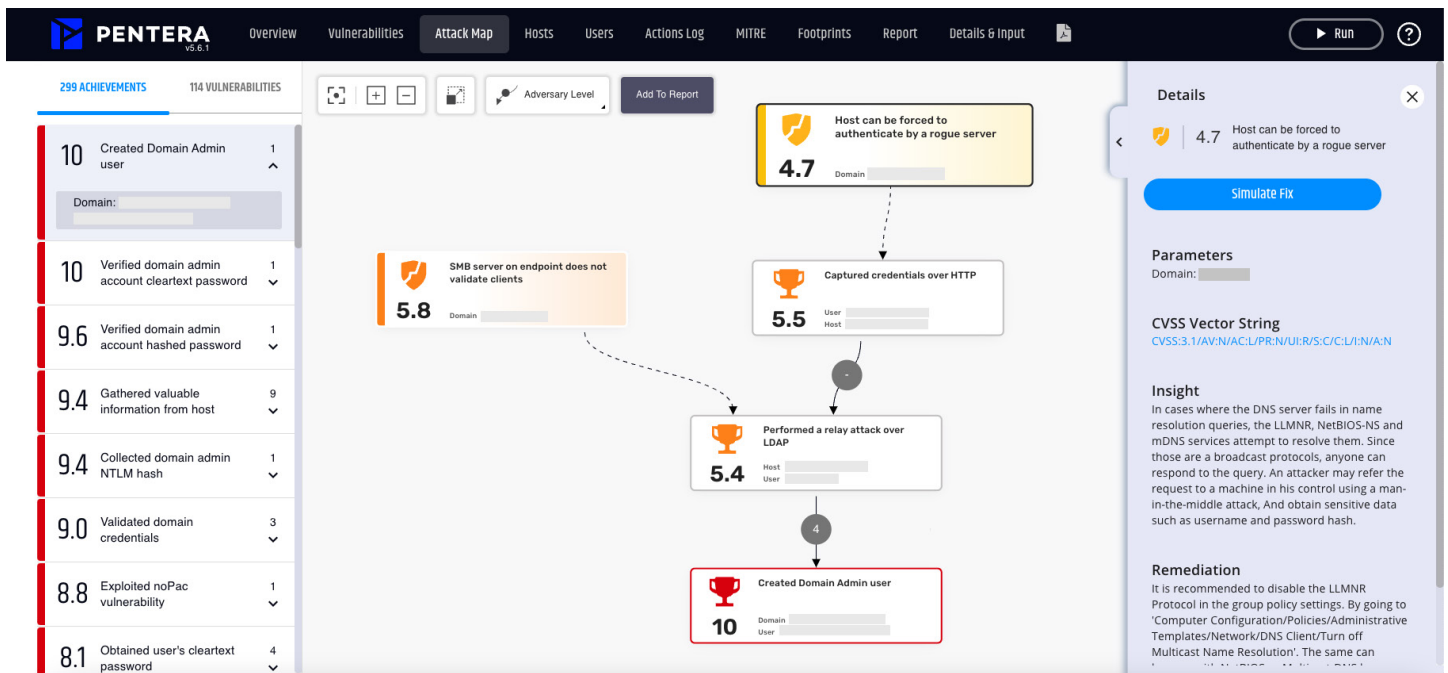
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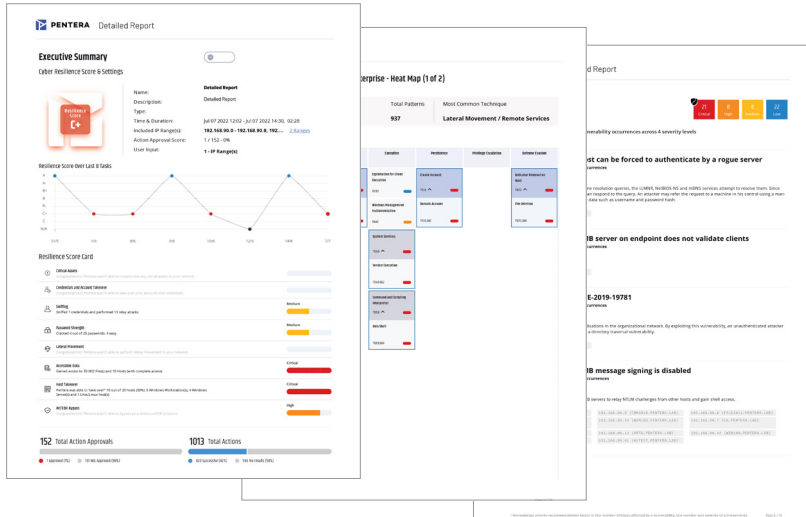
Get evidence-based insights to optimize security and protect your critical infrastructure.



SURGICAL REMEDIATION

Pinpoint the root cause of the attack for efficient remediation alongside step-by-step guidance.





Instant Report, Actionable Data

Pentera's instant post-run report provides all the information you need, from an executive summary of your security posture to a detailed view of exposures and prioritized remediation guidance. It can be easily exported and shared.

Summary

The number one rule in manufacturing is: production must continue running. Therefore, validating IT security in a non-stop industrial environment is crucial.

Pentera's Automated Security Validation platform enables manufacturing organizations to continuously improve their security posture by taking the adversary's perspective. By testing operational resilience against thousands of real-world attack methods, your Security and Red Teams can offload tedious testing tasks and focus their time on edge scenarios.

Now that validation can be safely run on a continuous basis, exposures are revealed in real-time—providing an immediate roadmap for cybersecurity improvement and a way to benchmark success.

About Pentera

Pentera is the category leader for Automated Security Validation, allowing every organization to test with ease the integrity of all cybersecurity layers, unfolding accurate, current security exposures at any moment, at any scale. Thousands of security professionals and service providers worldwide use Pentera to guide remediation and close security gaps before they are exploited.