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ASVP – AUTONOMOUS SECURITY VALIDATION PLATFORM

Continuous VAPT . Attack Simulation . Control Effectiveness . Compliance Evidence

Proving your security works — continuously, with evidence.

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THE PROBLEM

WHY TRADITIONAL VAPT IS NO LONGER ENOUGH

- Annual / quarterly VAPT = snapshot in time
- Cloud, APIs, libraries change daily
- Security tools drift silently
- Findings ≠ proof of prevention or detection
- Boards & regulators now ask:
  “Are we protected today?”



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What ASVP Is

ASVP is a continuous security validation platform that safely emulates attacker behavior to test defenses, measure effectiveness, and prove security readiness in real time.



ASVP is a continuous security validation platform that combines:

- Continuous Vulnerability Assessment (VA)
- Safe Penetration Testing (Simulated PT)
- Breach & Attack Simulation (BAS)
- Kill Chain Execution
- Security Control Effectiveness Measurement
- Evidence-based Compliance Visibility

ASVP does not replace security tools, it continuously validates them.



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How ASVP Covers VAPT

1 Vulnerability Assessment (VA)

- Web & API scanning (DAST)
- Infrastructure & configuration checks
- CVEs & outdated components
- Continuous & scheduled scans

2 Penetration Testing (PT – Safe)

- Exploit-path validation
- MITRE ATT&CK techniques
- Kill-chain-based testing
- Non-destructive, production-safe

Pen testing insight — without operational risk.

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HOW ASVP SIMULATIONS WORK

- Select technique or kill chain
- Define scope & safety policies
- Execute non-destructive simulation
- Validate prevention, detection & logging
- Generate evidence, scores & remediation

- **No destructive payloads**
- **No data loss**
- **Production-safe**

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SIMULATING HOW REAL BREACHES HAPPEN



- **Attacks are multi-step, not single events**
- **ASVP simulates:**
  - Initial access
  - Persistence attempts
  - Privilege misuse
  - Lateral movement
  - Data access paths

At every step:

Which control should stop this — and did it?

Security Controls Validation

From “We Have Tools” to “They Actually Work”

ASVP validates effectiveness of:

- WAF
- IDS / IPS
- EDR
- SIEM
- Firewall
- DLP
- Email Security Gateway
- CASB

ASVP validates effectiveness of:

- Expected action
- Actual outcome
- Detection & response time
- Evidence & remediation





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Validation Outcomes

Clear, Actionable Results

Passed

Control blocked or detected as expected

Partial

Detected but response incomplete or slow

Missed

No alert, no detection — real gap

- MITRE technique
- Evidence
- Timing
- Fix recommendations



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Evidence Generation



Every test produces:

- Technique tested (MITRE ID)
- Simulation summary
- Expected vs actual result
- Detection time (MTTD)
- Response time (MTTR)
- Alert evidence (simulated)
- Remediation guidance

Exportable . Time-stamped . Audit-ready

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Turning Security Into Measurable Outcomes

0–100 score per control based on:

- Detection rate – 40%
- Prevention rate – 40%
- Detection speed – 20%

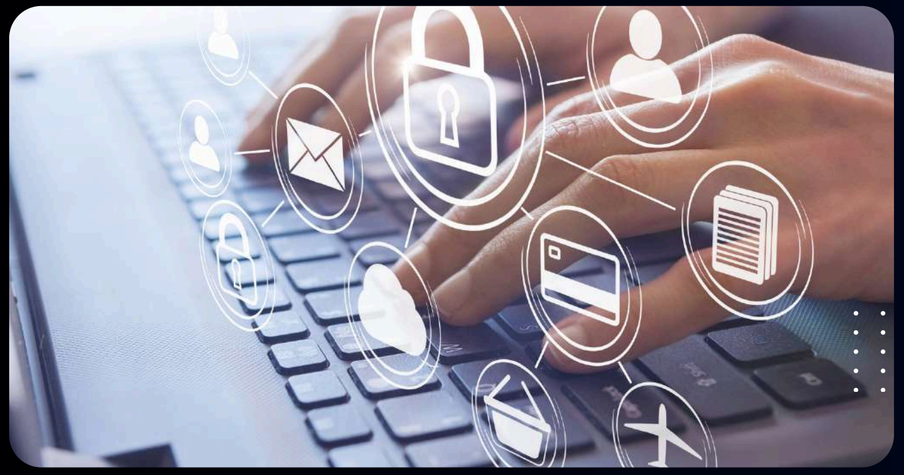
Tracked over time:

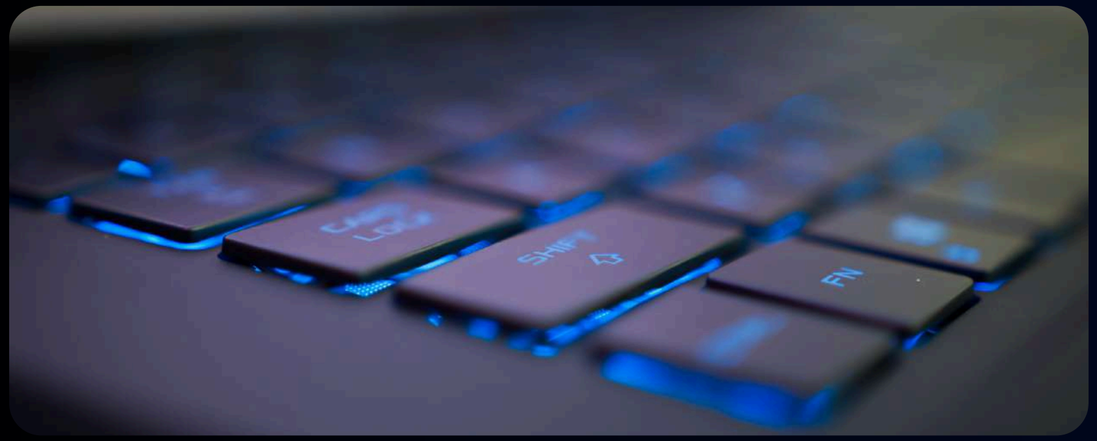
- Improving
- Stable
- Declining

Security you can **measure, trend, and improve.**



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COMPLIANCE FRAMEWORKS IN ASVP

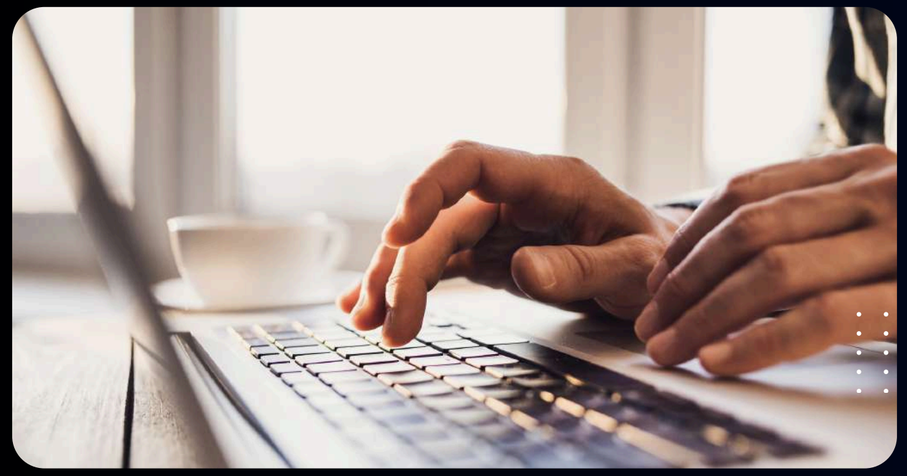
EVIDENCE-DRIVEN COMPLIANCE (NOT CHECKLISTS)

ASVP maps **real scan findings** to **7 global frameworks.**

- No questionnaires
- No self-attestation
- No manual scoring

Compliance scores are derived from real security gaps.

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CORE COMPLIANCE DASHBOARD

5 FRAMEWORKS WITH LIVE SCORING

Mapped via OWASP Top 10:2021

- PCI-DSS 4.0
- SOC 2 Type II
- ISO/IEC 27001:2022
- NIST CSF 2.0
- HIPAA (2023)

Fix vulnerabilities → scores improve automatically

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CLOUD SECURITY COMPLIANCE

AWS-FOCUSED FRAMEWORKS

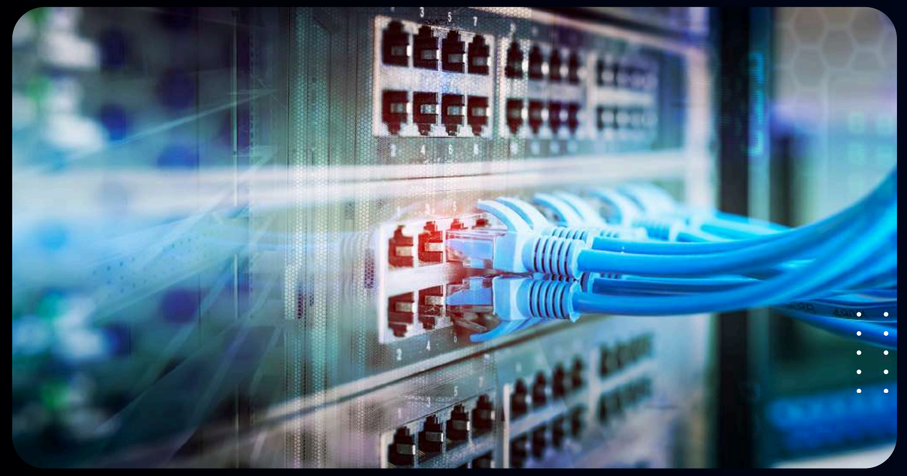
Derived from Cloud SDK Scanners:

- CIS AWS Benchmark
- NIST SP 800-53

Coverage:

- S3 bucket policies
- IAM access & keys
- EC2 security groups
- Public exposure risks

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HOW COMPLIANCE SCORING WORKS

FROM FINDING TO FRAMEWORK

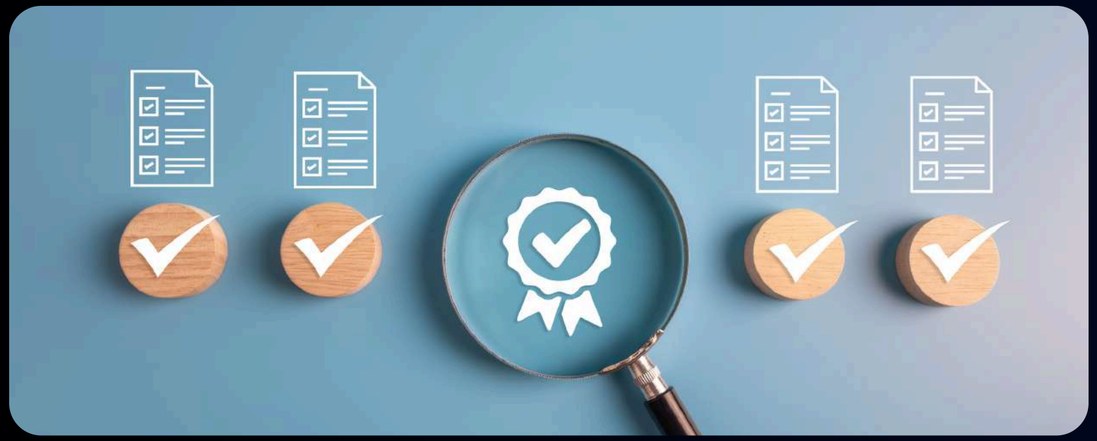
1. Scanner detects issue
2. Finding mapped to OWASP Top 10
3. OWASP category maps to framework controls
4. Compliance score calculated automatically

Formula:

(Passed controls ÷ total controls) × 100

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WHY AUDITORS TRUST ASVP

COMPLIANCE THAT REFLECTS REALITY

- Derived from real findings
- Time-stamped evidence
- Continuous visibility
- Control-drift detection
- No checkbox compliance

Auditors trust evidence — not promises.

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UI & Dashboards

What Users See

- Security Controls overview
- Per-control efficacy scores
- Validation history
- Kill-chain evidence
- Compliance dashboards
- Trend & gap analysis (7 / 30 / 90 days)



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WHAT ASVP DOES NOT DO

CLEAR, HONEST BOUNDARIES

ASVP does NOT:

- Replace WAF / EDR / SIEM
- Perform destructive exploitation
- Modify customer environments
- Push configurations
- Claim certifications

ASVP validates — it does not interfere.

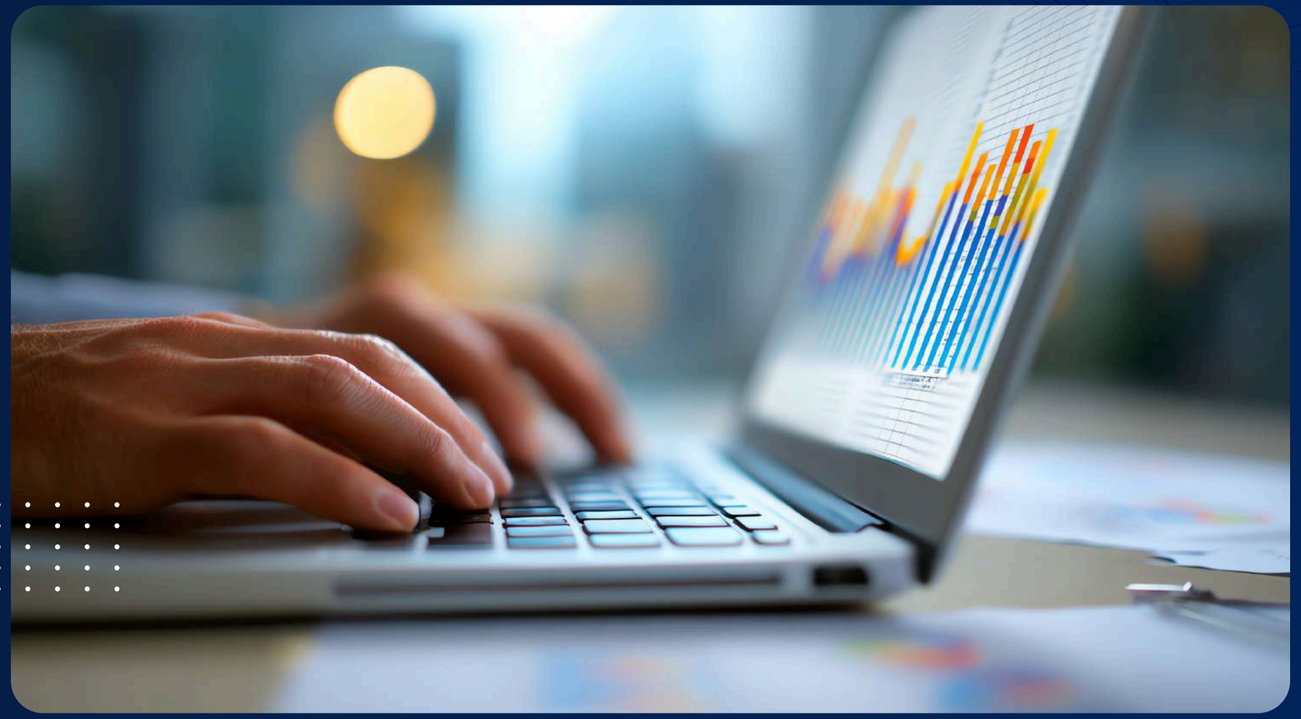


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WHY CUSTOMERS BUY ASVP

BUSINESS & SECURITY VALUE

- Continuous VAPT instead of snapshots
- Reduced false confidence
- Visibility across tool sprawl
- Board-level reporting
- Regulator-ready evidence
- Measurable improvement over time



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WHERE ASVP FITS

ASVP includes continuous VAPT (VA + safe penetration testing) and adds breach & attack simulation to validate whether security controls actually stop real attacks — with evidence.

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THE ASVP DIFFERENCE

You may have dozens of security tools.
ASVP is the platform that proves they actually work.

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THANK YOU



Contact Us:

+1 302 476 2467

2055, Limestone Rd, STE 200-C,
Wilmington, DE 19808 US

www.averox.com

+44 207 193 3577

3rd Floor 86-90 Paul Street
London EC2A 4NE

info@averox.com