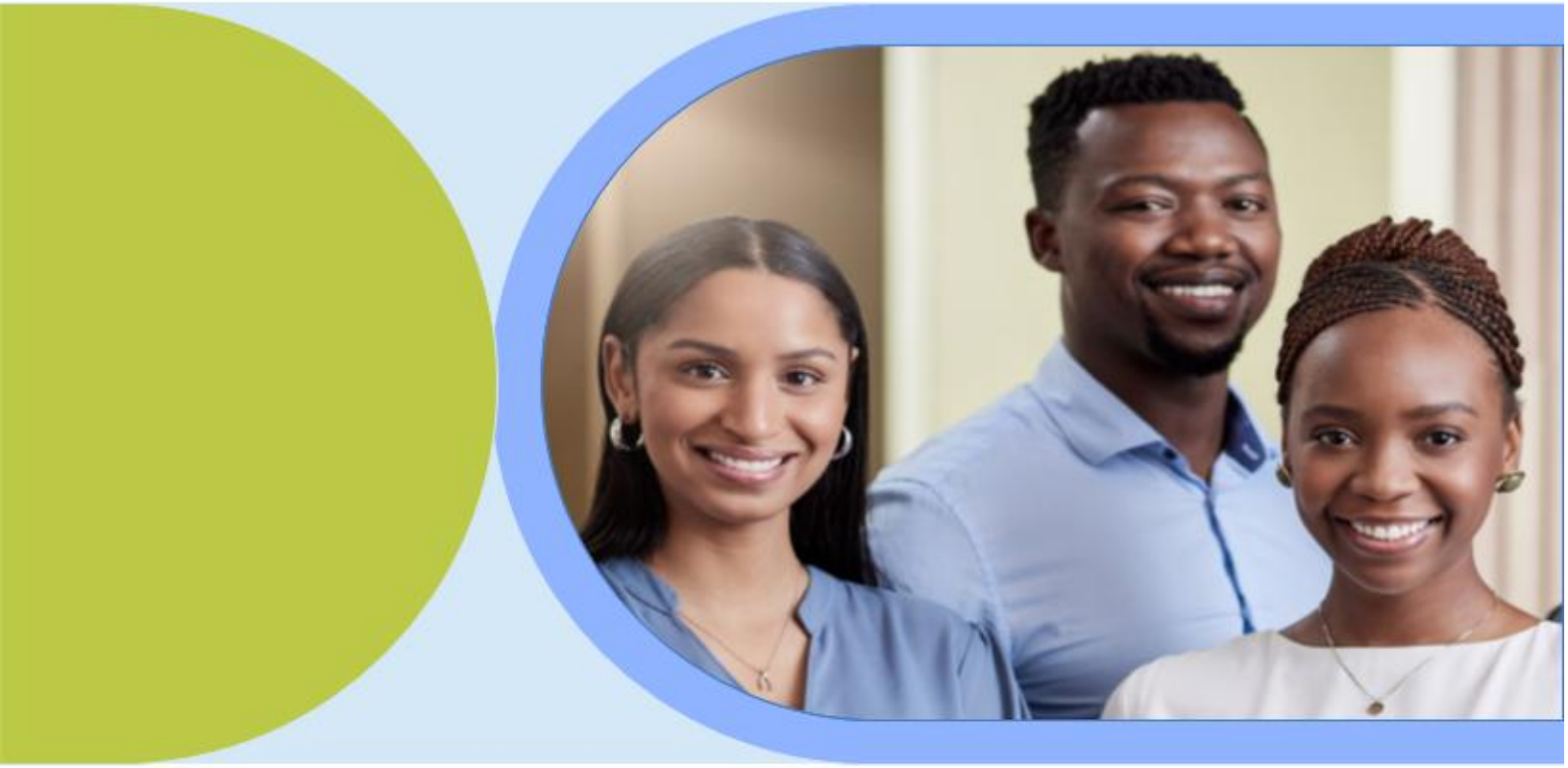
Crown Commercial Service

zensar



Zensar's Service Definition Document for Zensar AI-Led VAPT

January 2026

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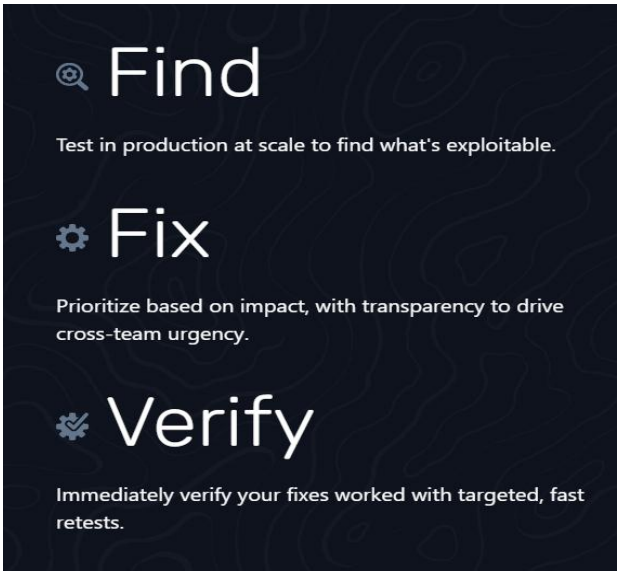
1 Introduction

This document defines Zensar's **AI-Led Vulnerability Assessment & Penetration Testing (VAPT)** service powered by **Horizon3.ai NodeZero**, covering approach, architecture, delivery model, tasks, scope boundaries, assumptions and customer obligations.

Why AI-led VAPT now. Traditional VA/PT often over-indexes on scan results and CVSS scores, making remediation noisy and slow. NodeZero performs **production-safe, autonomous Pen Tests** that **prove exploitability**, chain weaknesses into **attack paths** and provide **proof-of-exploit** with **1-Click Verify** to confirm fixes, accelerating true risk reduction.



2 Service Overview (What is ZenVAPT?)

ZenVAPT is a **managed, attacker-validated VAPT** program running across **on-prem, cloud, perimeter and identity**. It is agentless, self-service/on-demand and integrates **Cloud Pen testing (AWS/Azure)**, **Internal/External tests**, **Azure Entra ID**, **AD Password Audit**, **Phishing impact**, **Segmentation/Insider tests** and **Rapid Response** for KEVs.

Core outcomes.

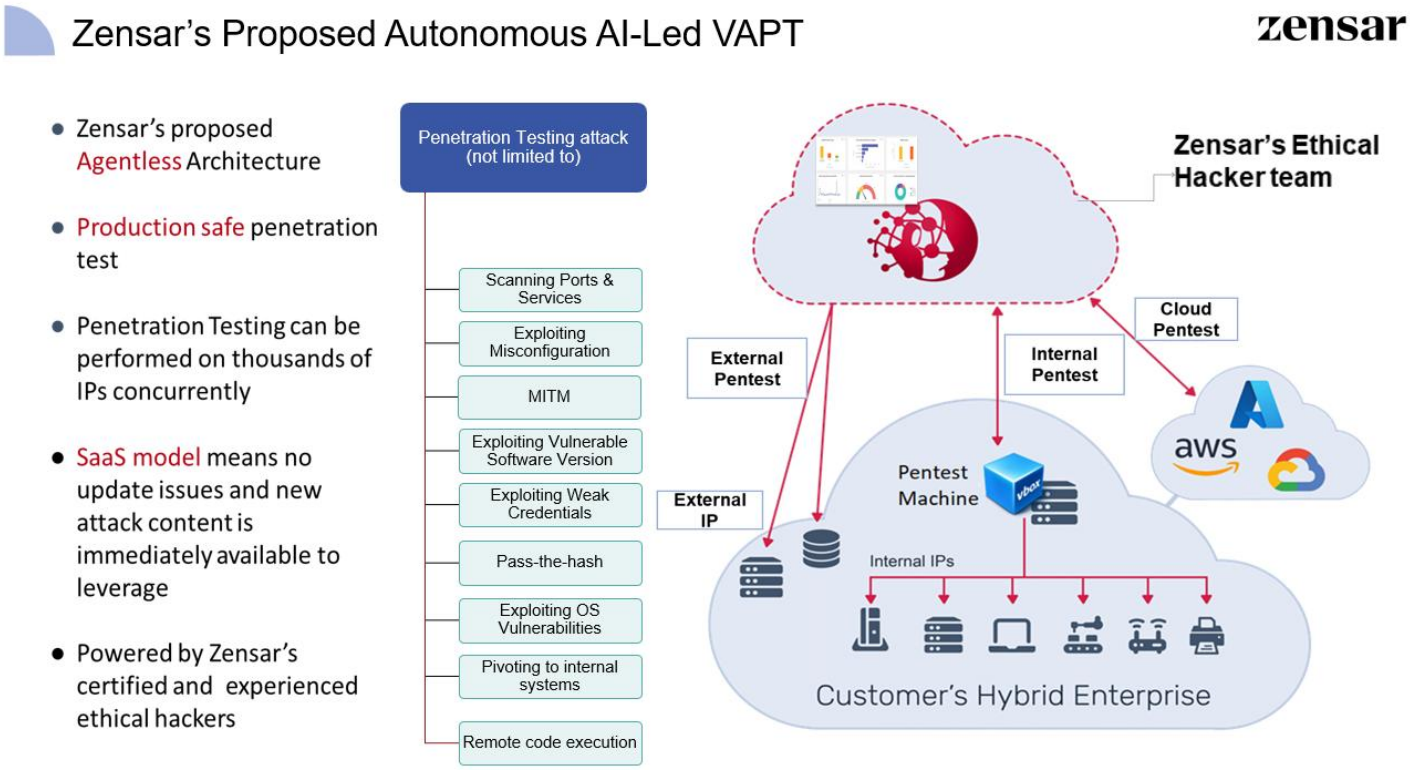
- **Prove what's exploitable** (not just "potential vulnerabilities") with **path, proof and impact** for every finding.
- **Prioritise the right fixes** using systemic guidance (one change can remove many paths).
- **Verify remediations quickly** with **1-Click Verify** and trend your MTTR and exposure using **NodeZero Insights™**.
- **Compliance support** (e.g., **PCI DSS v4.0 11.4** pen testing with evidence and retest)

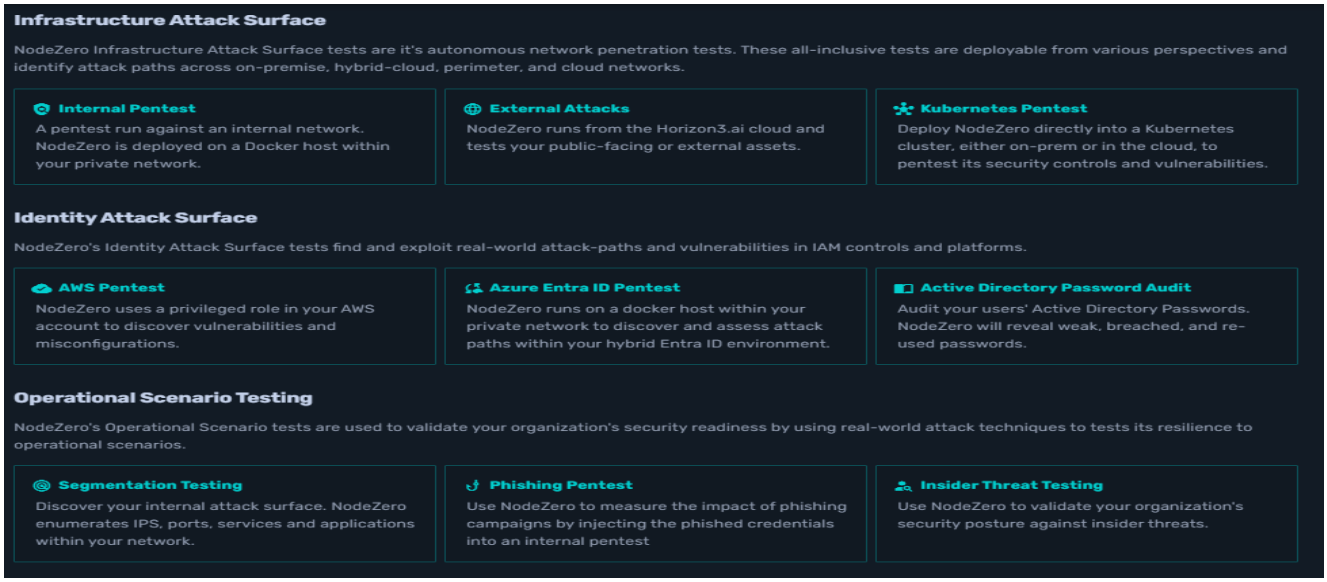
3 Reference Architecture & Components

Components.

- **NodeZero Portal (SaaS):** Orchestrates tests, provides real-time view, attack paths, proof and APIs.
- **NodeZero Host (Internal tests):** Lightweight Ubuntu/Docker host placed in customer network; **min 2 vCPU/4GB/20GB; recommended 4/8/40**.
- **Network/Egress:** Allowlisted outbound to Horizon3 endpoints (per US/EU region); **NodeZero Gateway** option for restricted networks.
- **Test Types:** Internal, External (cloud-run), **Cloud Pen testing (AWS/Azure)**, **Azure Entra ID**, **AD Password Audit**, **Segmentation/Insider/Phishing**.
- **Insights/Rapid Response/Tripwires:** Org-wide trending (Insights), KEV alerting & targeted tests (Rapid Response), decoy traps aligned to exposures (Tripwires).

Cloud coverage. NodeZero Cloud Pen testing provides deeper identity-centric attack content for AWS/Azure and can pivot to on-prem to emulate real attacker operations end-to-end.





4 Operating Model & Service Flow

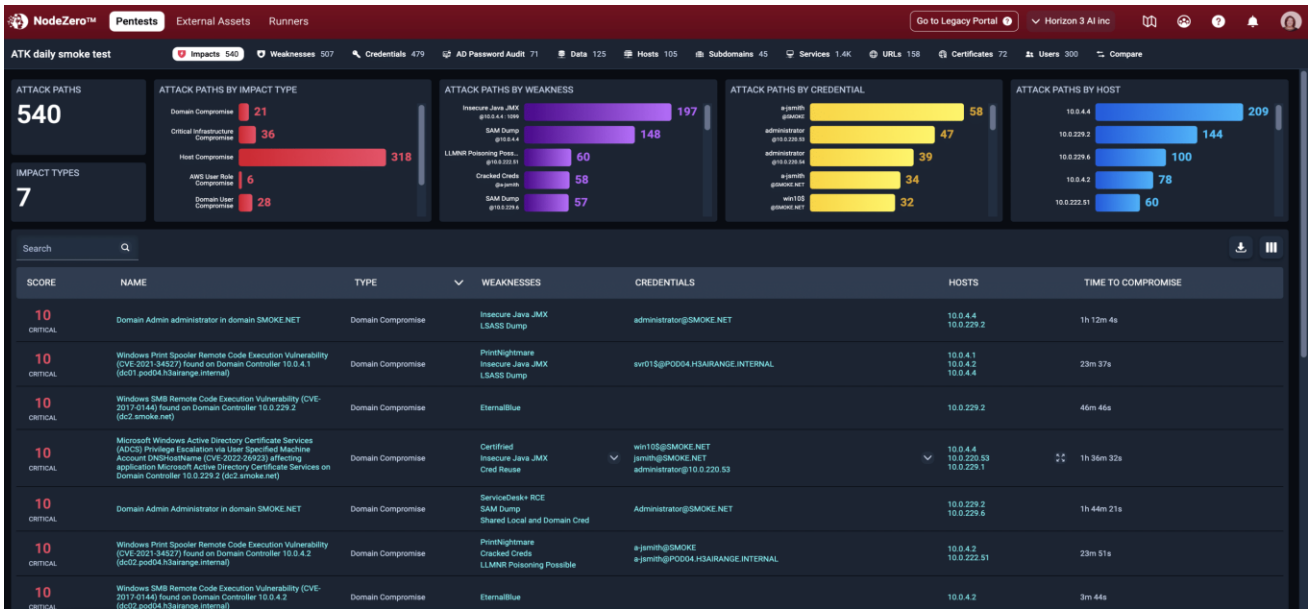
Define. Scope/authorisation, guardrails (assets, time windows), safe-run controls, external IP allow-listing for external pen tests and pen test templates/schedules.

Discover & Attack (Autonomous). NodeZero enumerates and **chains** misconfigurations, credentials, CVEs and insecure defaults; safely exploits to produce **proof** and **impact—production-safe** and proven at scale.

Prioritise & Plan Fix. Zensar runs **Fix Action Workshops** to identify **systemic fixes** and quick wins; we push tickets into **ServiceNow/Jira** with webhook sync for status.

Verify. Use **1-Click Verify** (targeted retests) or scheduled incremental pen tests to confirm remediation; publish auditor-ready evidence.

Measure. NodeZero Insights tracks open weaknesses, assets at risk, attack paths, MTTR, systemic issues—ideal for leadership reporting.

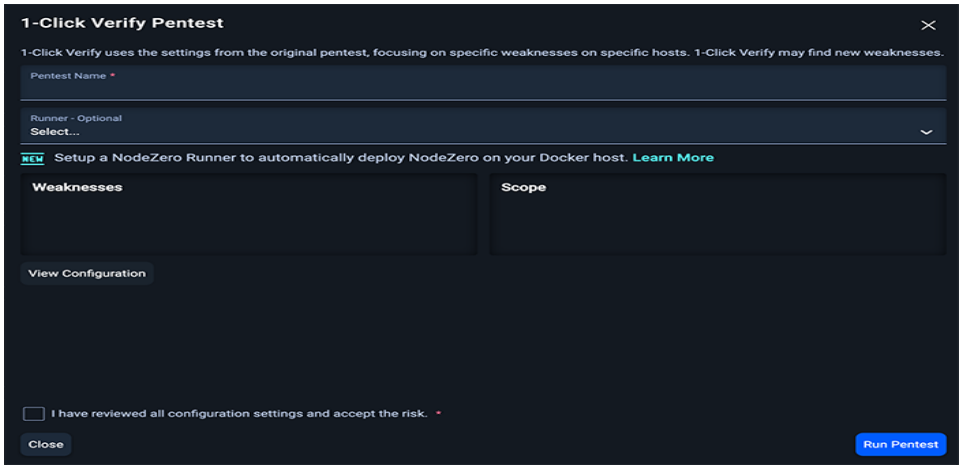


5 Service Tasks & Deliverables

- Scoping & Authorisation (letters, allowlists, templates, test windows).
- Host Setup & Validation (Ubuntu/Docker; network egress tests).
- Pentest Orchestration & Oversight (safe execution; exception handling).
- Analysis & Prioritisation (attack paths, proof, impact; systemic fix map).
- Remediation Governance (tickets to **Jira/SNOW**, webhook status sync).
- Retesting & Evidence (**1-Click Verify** / scheduled retests for closure).
- Executive Reporting (**Insights** trends, MTTR, KEV focus area).

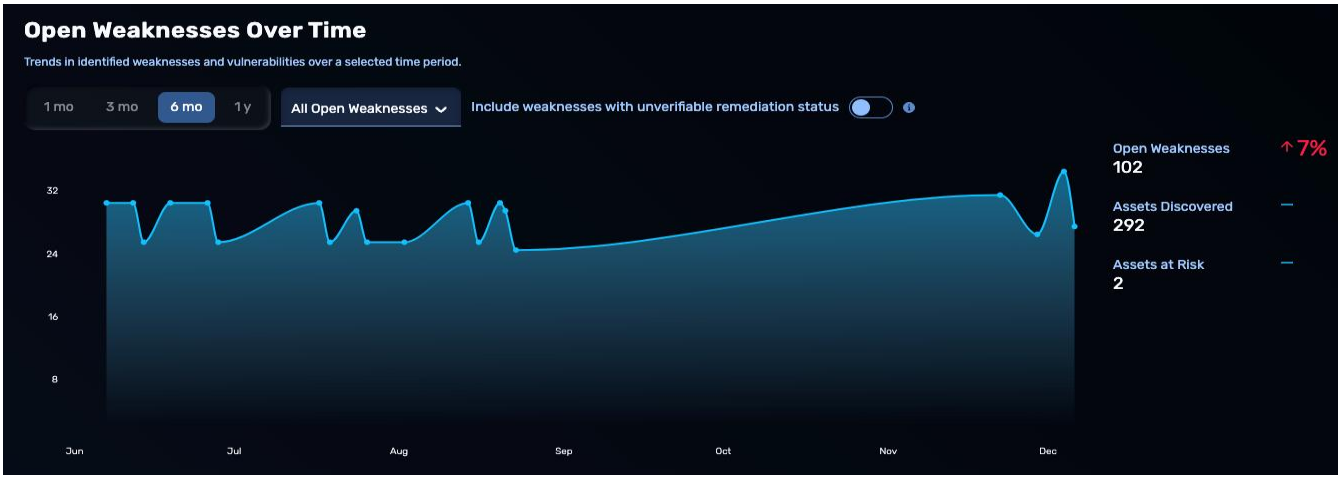
Deliverables.

- **Pentest Report** (exec summary, attack paths, proof, business impact).
- **Fix Action Report** (prioritised systemic remediation actions; one-to-many fixes mapping).
- **Ticket Packs** (SNOW/Jira) + **Retest Evidence (1-Click Verify)**.
- **Insights Trend Pack** (Open Weaknesses over Time, Assets at Risk, severity/type trends, MTTR).



6 Open Weaknesses Over Time

This section shows the un-mitigated weaknesses across the entire organisation as reported from NodeZero pentests. Each data point on the graph shows the total number of open weaknesses reported from all the pen test operations that were completed on that day. Users can visualise the data over 1 month, 3 month, 6 months and 1-year periods. The list at the right of the graph summarises counts of Open Weaknesses, Assets Discovered and Assets at Risk as of today as well as the percentage change over the time period selected.

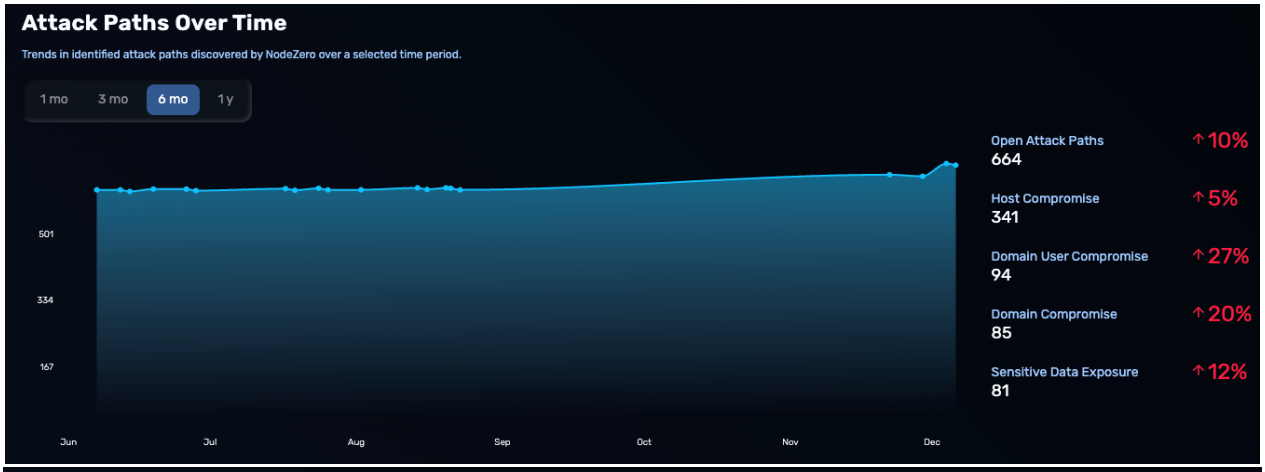


7 NodeZero Insights

What it is. An add-on that aggregates **trend data** from all pen tests, helping leaders **prioritise**, **prove impact** and produce **strategic executive reports**.

Key capabilities.

- **Visualise Attack Surface Evolution:** Identify systemic blind spots; validate control effectiveness.
- **Monitor Progress (MTTR):** Track remediation velocity by severity; quantify improvements.
- **Analyse Weakness Trends:** By severity and type to focus on maximum-impact fixes.
- **Proactively Identify Risks:** Outdated controls, misconfigurations, policy gaps.
- **Unverifiable Weaknesses control:** Toggle to include/exclude unverifiable categories for reporting completeness.
- **Attack Paths Over Time** and **Pentest Series Analysis:** Track paths, schedule cadence and upcoming runs.
- **CISA KEV filter:** Focus MTTR and open counts on KEVs to show fast risk reduction on known-exploited items.
- **Systemic Issues panel:** Two 3-month periods (last 6 months) to show whether policy/initiative changes are closing enterprise-wide gaps.

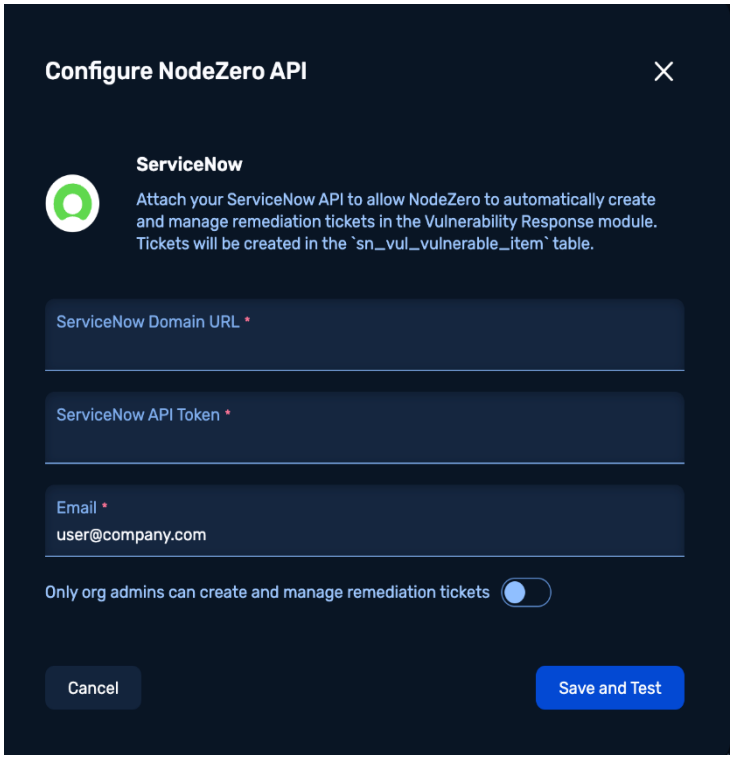

Attack Paths Over Time
Trends in identified attack paths discovered by NodeZero over a selected time period.
1 mo
3 mo
6 mo
1 y
501
334
167
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Open Attack Paths
664
↑10%
Host Compromise
341
↑5%
Domain User Compromise
94
↑27%
Domain Compromise
85
↑20%
Sensitive Data Exposure
81
↑12%

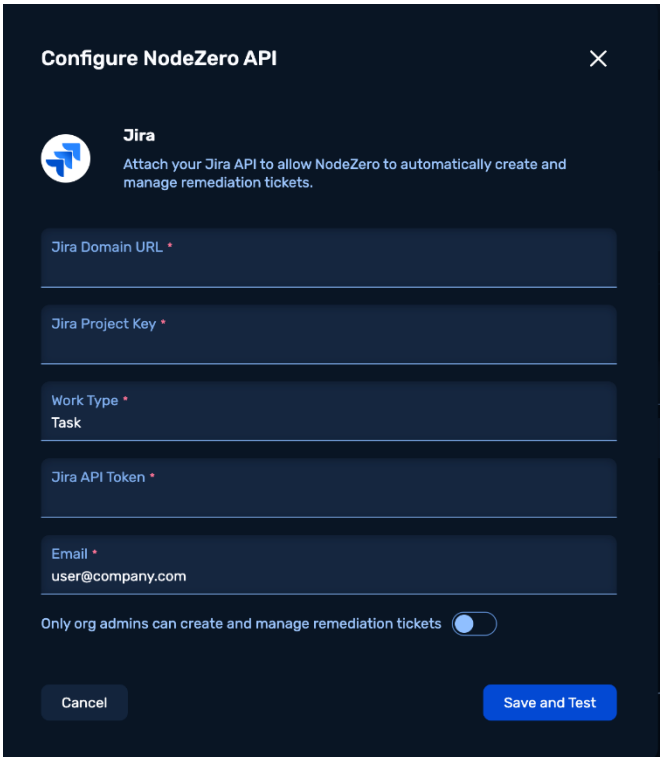

Pentest Series Analysis
View Details
Trends in identified attack paths across all scheduled pentest series.
1 mo
3 mo
6 mo
1 y
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Tiny scope on the range
Internal Pentest | Weekly
Insights Template
Internal Pentest
password audit on dev-runner
Active Directory PW Audit | Weekly
Upcoming Pentests...
Tiny scope on the range
Internal Pentest
Scheduled for Dec 11, 2024
password audit on dev-runner
Active Directory PW Audit
Scheduled for Dec 13, 2024

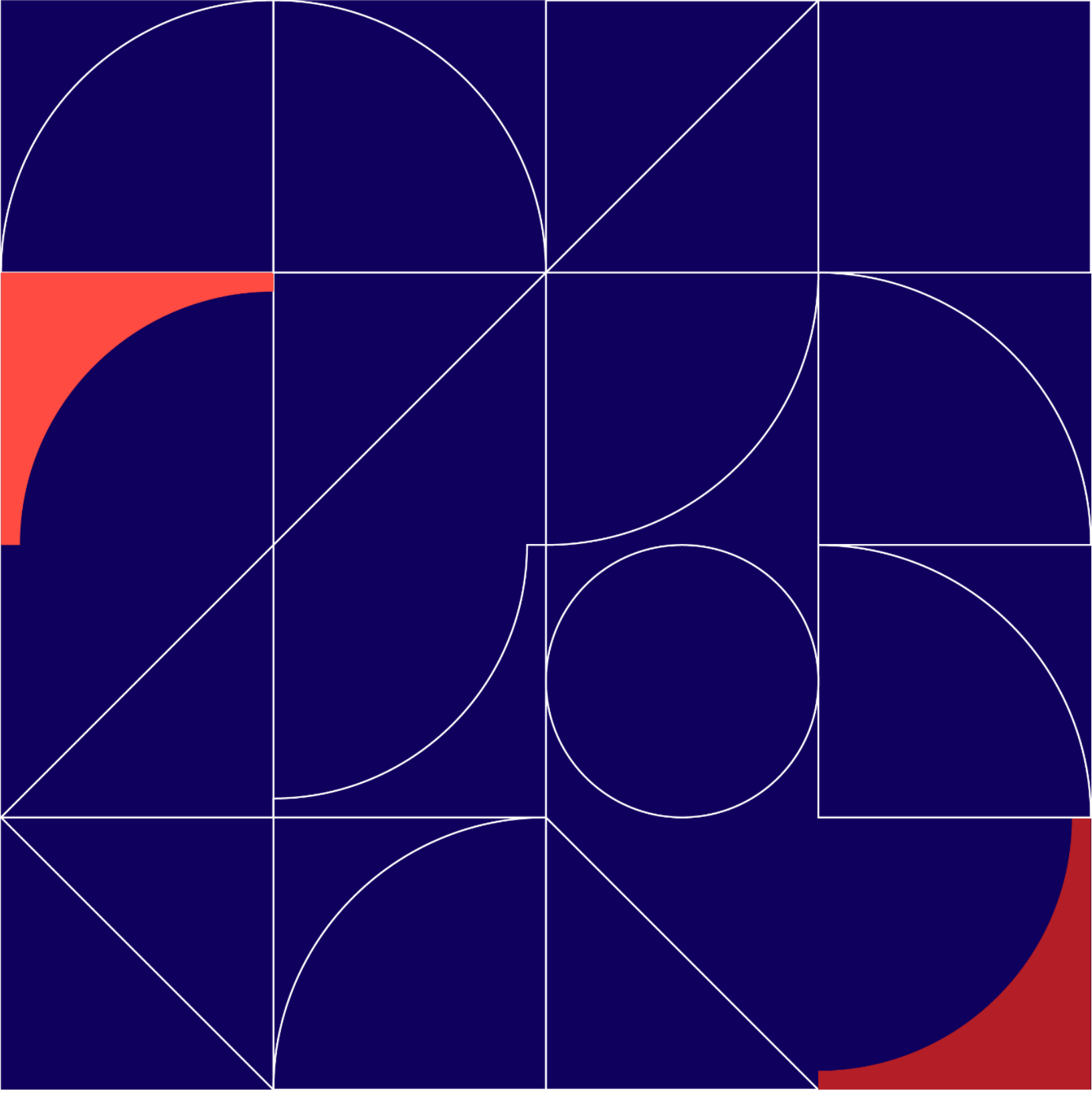

Remediation Summary
Visualizing open weaknesses by severity, age, and mean-time-to-remediation.
Include weaknesses with unverifiable remediation status
Show Only CISA KEV
Mean Time to Remediation | CISA KEV
1 mo
3 mo
6 mo
1 y
50
25
Aug
Sep
Oct
Nov
Dec
Jan
Feb
Critical
49 days
High
24 days
Medium
-
Low
-
Info
-
Toggle to View:
Critical
High
Medium
Low
Info
Open Weaknesses by Severity | CISA KEV
CRITICAL
3 OPEN
HIGH
1 OPEN
MEDIUM
0 OPEN
LOW
0 OPEN
Open Weaknesses by Age | CISA KEV
All Severities
1D
0 OPEN
30D
0 OPEN
6M
2 OPEN
1Y
2 OPEN
1Y+
0 OPEN

8 Reporting, Integrations & Automation

- Reporting. **Real-time view +** Pentest Report **+** Fix Action Report **+** Insights **executive summaries.**
- Ticketing integrations. ServiceNow VR **and** Jira**: create/update remediation tasks, enable webhooks for status sync so closures are reflected back in NodeZero/Insights.**
- API for automation. **Public** GraphQL API **enables CI/CD hooks, programmatic scheduling/exports and custom analytics.**







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