

Continuous Threat Exposure Management



Powered by RidgeBot –
AI Agent for Security
Validation

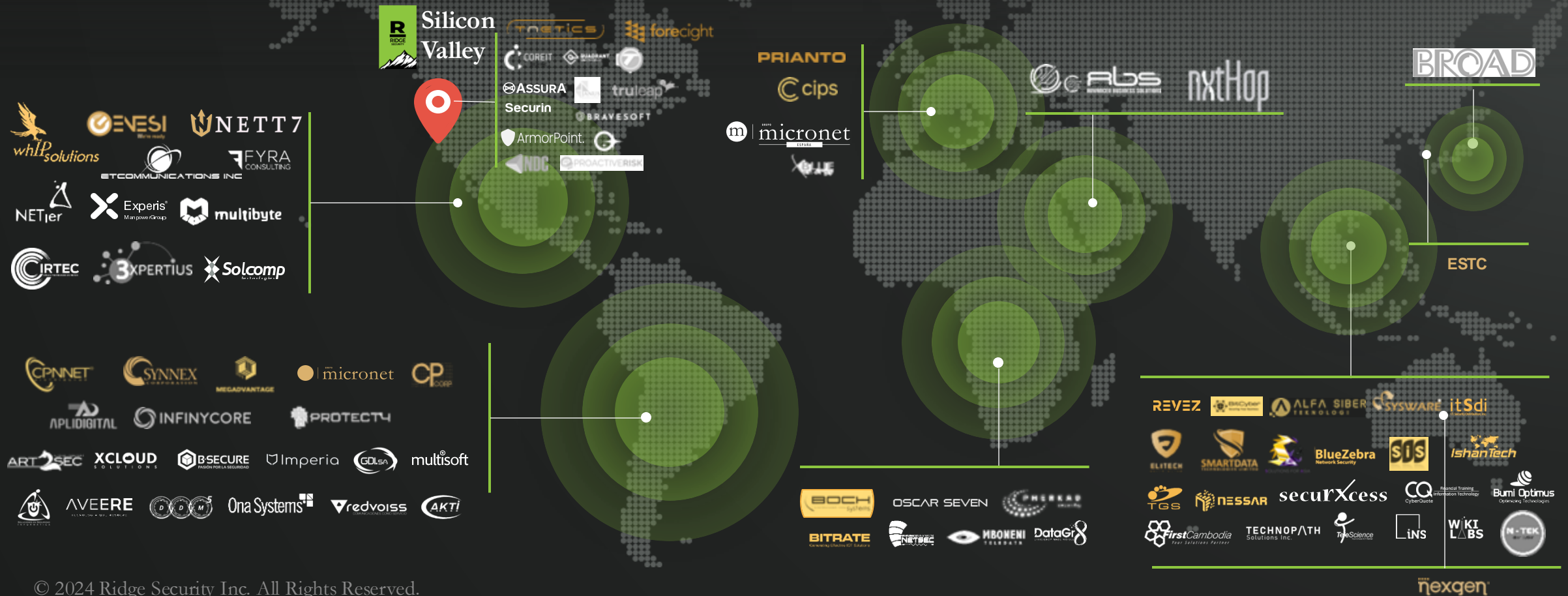
Ridge Security Presence



250+ Customers across North & South America, Europe, Asia and Africa

200+ active channel partners
700+ registered channel partners

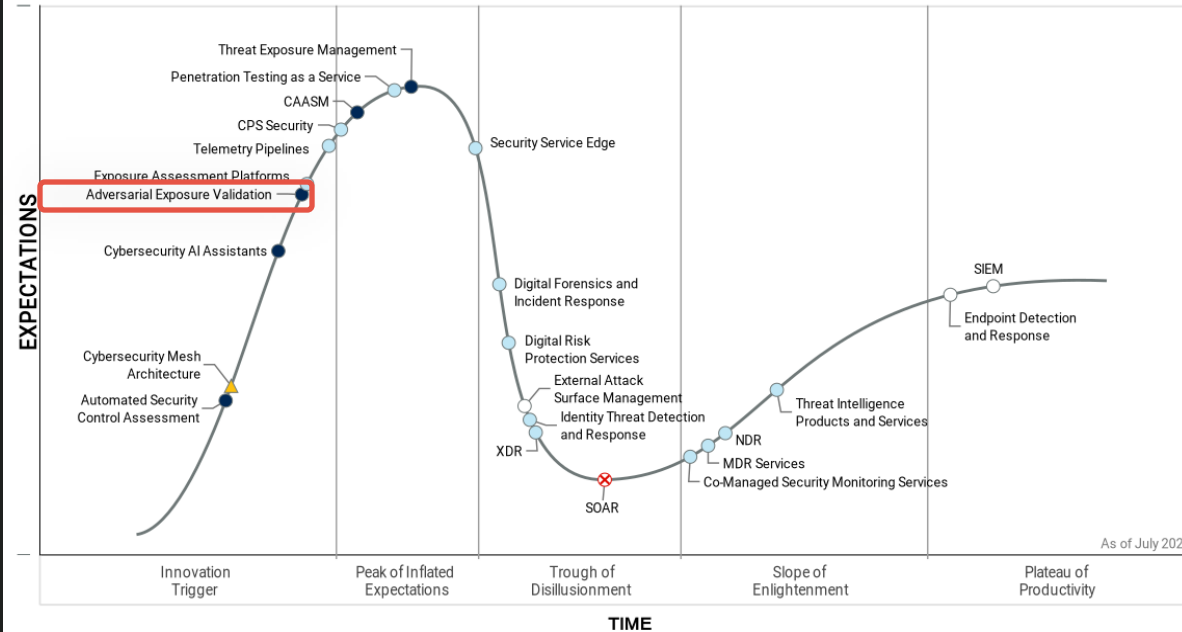
FSI, Government, Telcom and MSSPs



Recognized by Gartner



Hype Cycle for Security Operations, 2024



Timeline will be reached: ○ <2 yrs ● 2-5 yrs ● 5-10 yrs ▲ >10 yrs ✗ Overlaid before plateau

Adversarial Exposure Validation

Analysis By: Jeremy D'Hoinne, Eric Ahlm, Dhivya Poole, Jonathan Nunez

Benefit Rating: High

Market Penetration: 5% to 20% of target audience

Maturity: Adolescent

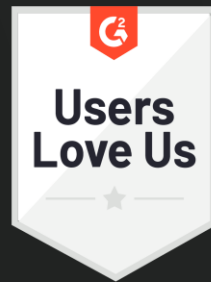
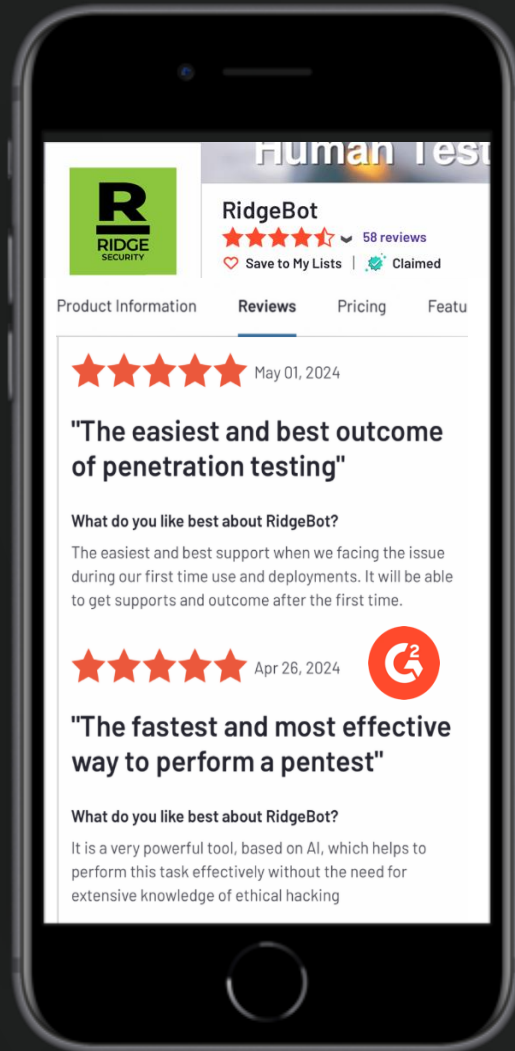
Sample Vendors

AttackIQ; Cymulate; Google; Horizon3.ai; NetSPI; Pentera; Picus Security; Ridge Security; SafeBreach; SCYTHE



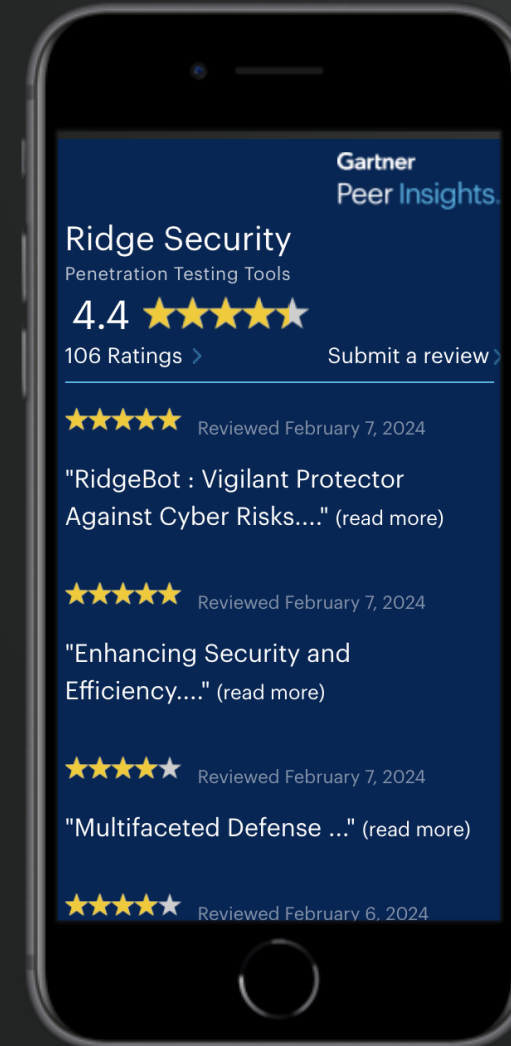
Ridge Security is
included by Gartner as a
sample vendor for
Adversarial Exposure
Validation

/ Recommended by Customers



The full product reviews
& rating insights

[Click to read](#)



**Strongly Performing
in the Vulnerability
Assessment Market**

Recognized in the 2024 Gartner Peer Insights™
"Voice of the Customer" for Vulnerability Assessment

**Leading In User Interest
and Adoption of
Penetration Testing Tools**

Recognized in the 2024 Gartner Peer Insights™
"Voice of the Customer" for Penetration Testing Tools

The full product reviews
& rating insights

[Click to read](#)

/ Global Acclamation in 2024



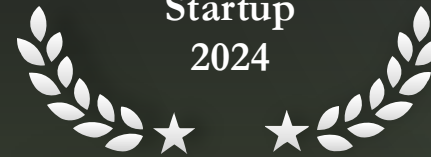
Top 10
Penetration
Testing Provider
2024



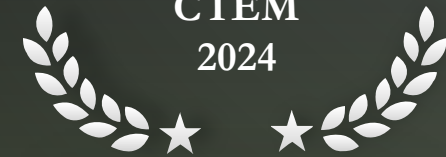
Publisher's Choice
DevSecOps
Vanguard
2024



The Most Promising
Cybersecurity
Startup
2024



Breakthrough
Award AI in
CTEM
2024





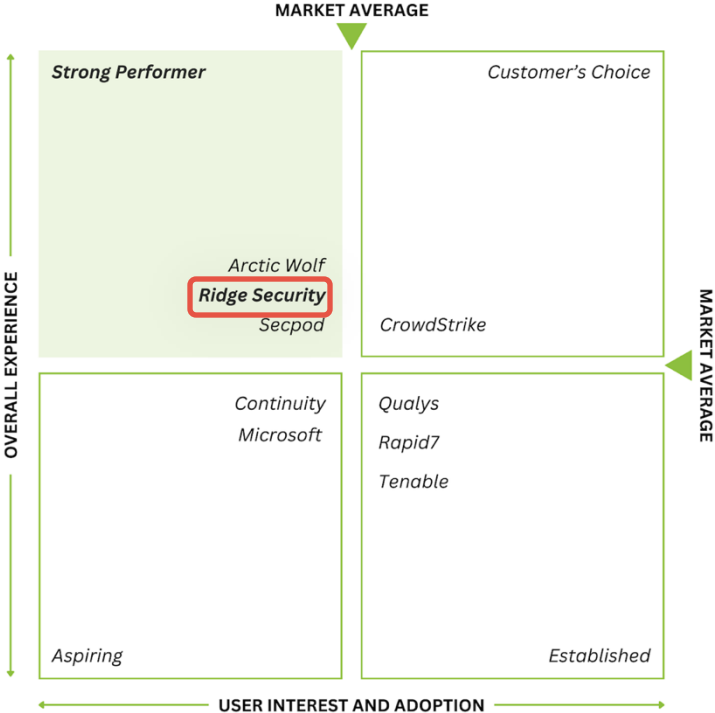
Strong Performance from “Voice of Customers”



Strong Performers in Vulnerability Assessment

Gartner® Peer Insights™ “Voice of the Customer”
Vulnerability Assessment

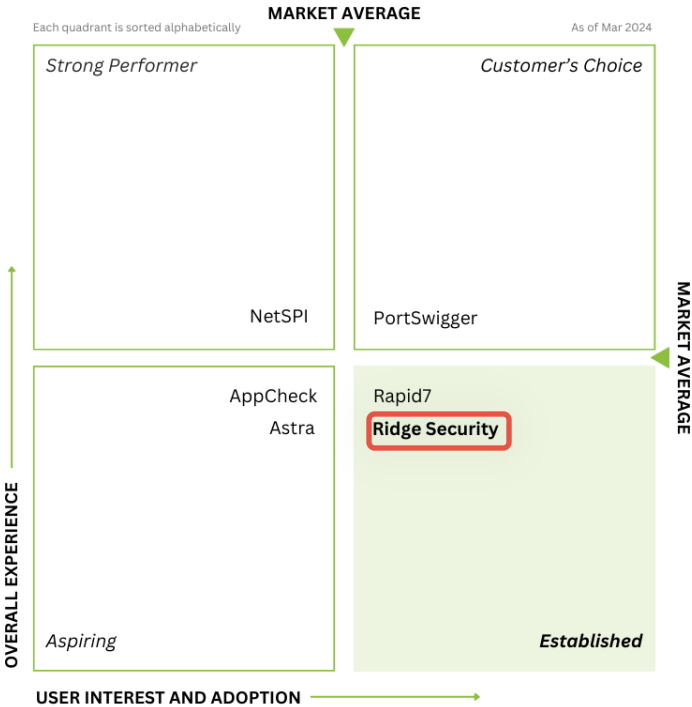
February 5th, 2024



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Leading in User Interest and Adoption in Penetration Testing Tools

Gartner® Peer Insights™ “Voice of the Customer”
Penetration Testing Tools



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Strategic Partnership



Trellix

IBM

aws

RAPID7

FORTINET

splunk>

tenable

Microsoft
Sentinel

RidgeBot

RESTful API

CEF-Compliant Syslog

Raw Data Export

Azure

STELLAR
CYBER®

Manage Cybersecurity Threat Exposure with AI-Powered RidgeBot





01. What pain points does RidgeBot solve?

02. How does RidgeBot work?

03. What can RidgeBot do for me?

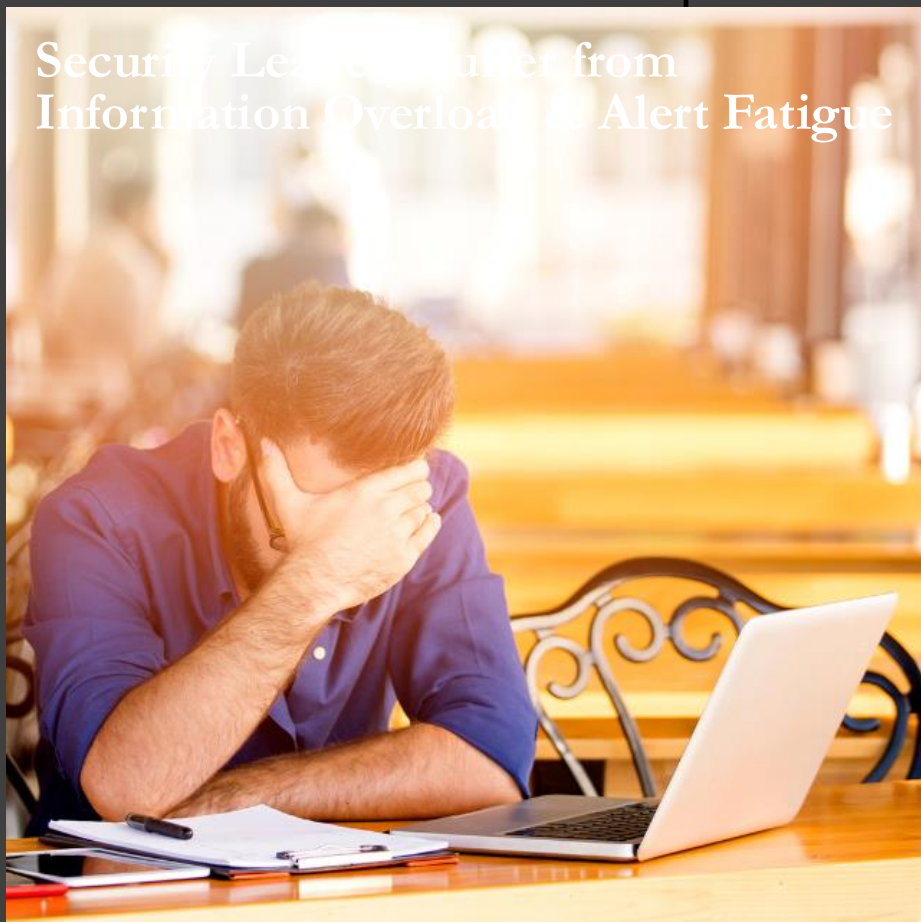
The background of the slide is a dark blue gradient. On the left side, there is a large, stylized map of the world composed of small white dots. Overlaid on this map are two white network diagrams. The top diagram shows a central node connected to several other nodes, with a cursor icon pointing at one of the nodes. The bottom diagram shows a similar network structure with a Wi-Fi symbol and a document icon. In the center of the slide, the number '01' is displayed in a large, white, serif font.

What painpoints does RidgeBot solve?

RIDGE SECURITY



Too Much Data to Effectively Manage

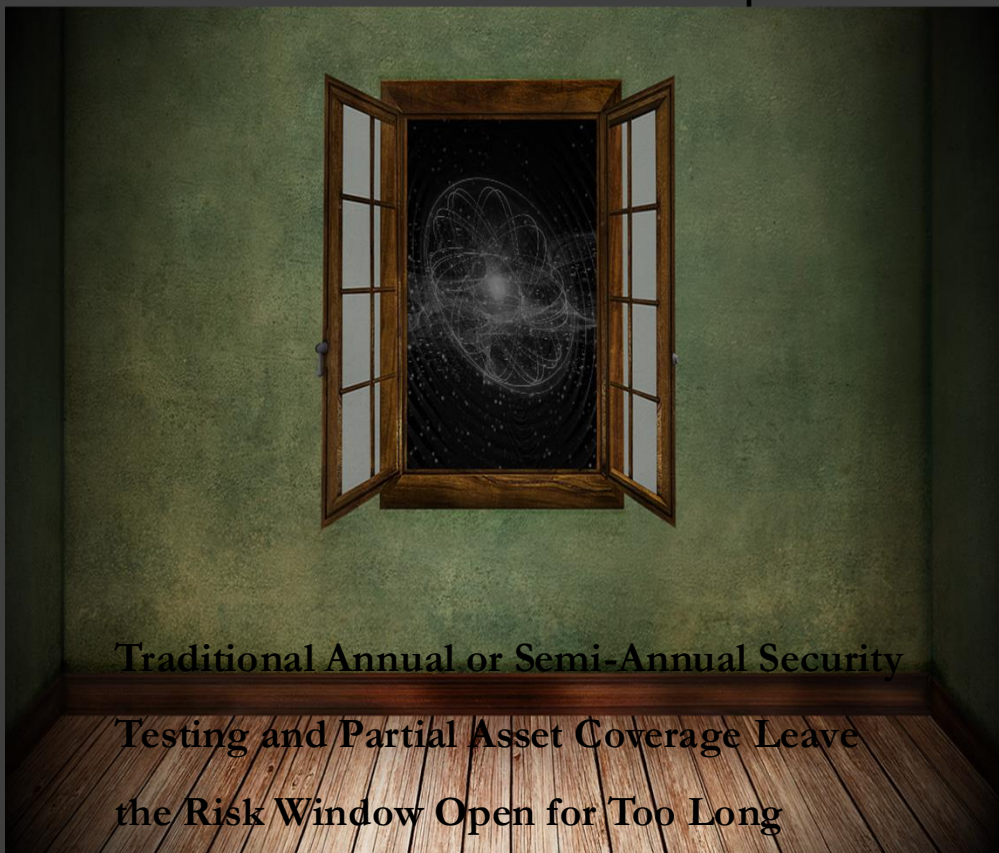


- Lots of telemetry but difficult to make sense of it all
- Ongoing growth of attack surface
- Overwhelming volume of vulnerabilities reported by VM solutions
- Very high false-positive rate
- Patch priority not based on exploit possibility

*Cannot effectively manage too much data.
Security Validation is required to help.*



Traditional Security Validation vs. Threat Exposure Risk



Traditional Annual or Semi-Annual Security Testing and Partial Asset Coverage Leave the Risk Window Open for Too Long

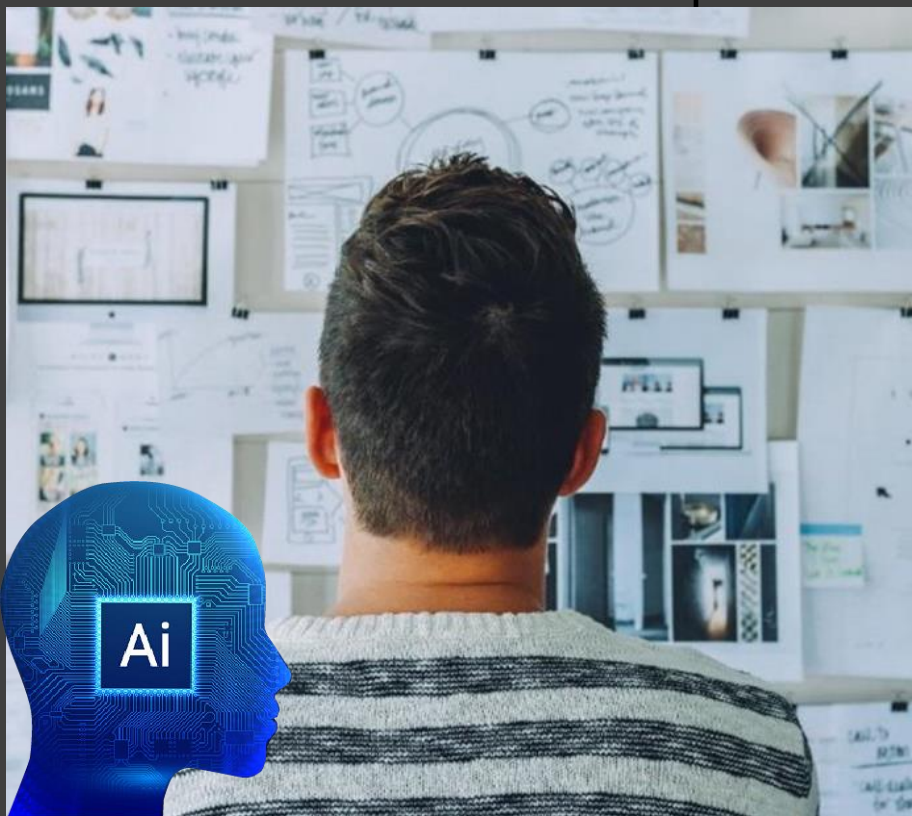
- Traditional security validation, such as manual testing, no longer a good fit:
 - Too expensive
 - Too time-consuming
 - Require highly skilled experts
 - Typically miss the latest exploits
- As a result, traditional security validation:
 - Only performed ad-hoc, not continuously
 - Gaps in Time
 - Only focuses on critical assets, not all IT assets
 - Gaps in IT Assets

Traditional security validation is simply not able to keep up with ever-evolving threat landscape and leaves the risk window open for too long.

Continuous & Automated Security Validation is required.



Sophisticated Attacks Require Sophisticated Solution



- With continued rise of threat exposure risk, organizations experience the security staff shortage more than ever before
- Match the increasing sophistication of cyber criminals
- AI-driven cyber attacks require AI-powered solutions to detect them
- Without the help of AI, it's indeed a losing battle against cyber attacks in today's threat landscape

*Complement your existing security staff with an **AI-Powered Security Validation** solution.*

RidgeBot is Positioned to Address These Pain Points



By performing risk mining, help CISOs understand overall cyber **risks** and reduce security team's workload by **prioritizing** critical exposures



Perform **continuous** and **automated** management of threat exposures and security posture



Alleviate the security staff shortage & ever-increasing sophistication of cyber attacks with **AI-powered** and **automated** security validation



RidgeBot

Security
Validation
AI Agent

- 1st AI Agent for Security Validation
- Powered by AI Engine & genAI based Expert Knowledge
- Easy to use, no specialized expertise required

- Do less but achieve more by focusing validated exploitable risks.
- Shorten risk windows from years/months to days/hours
- Cover all IT assets compressively, leaving no gaps.
- Utilize AI to defend against sophisticated hackers.



Periodical manual
penetration testing

=>

Automated Continuous
Threat Exposure Mgmt



Informational,
high false positive

=>

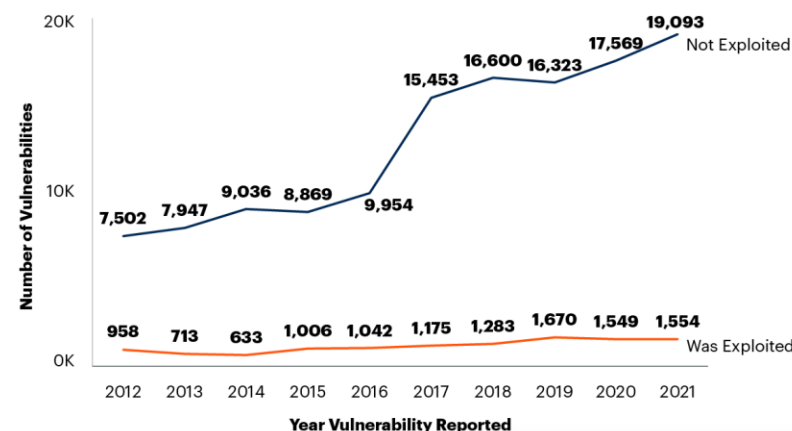
Actionable,
zero false positive

Shortcomings of Vulnerability Management



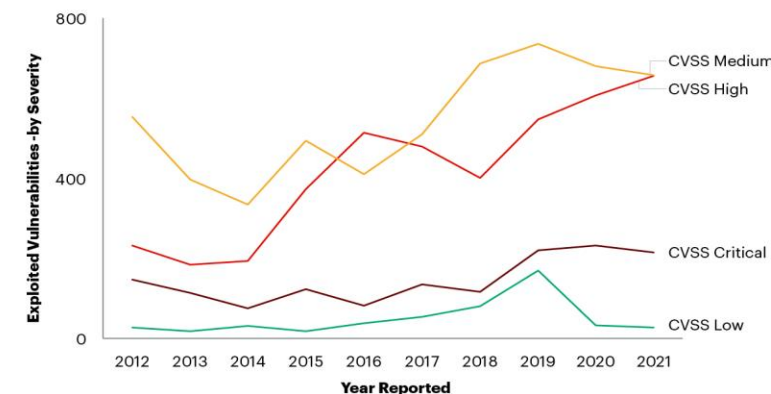
- Vulnerabilities keep growing year over year
- VM deals with volume, not quality
- Very high false-positive rate
- Not possible to patch all vulnerabilities
- Vulnerability scoring does not reflect likelihood of being exploited by attackers
- Patching vulnerabilities in vacuum does not necessarily reduce Threat Exposure or the risk of a breach

How Many Vulnerabilities Get Exploited Each Year



Source: Gartner (data drawn from the IBM X-Force vulnerability database)

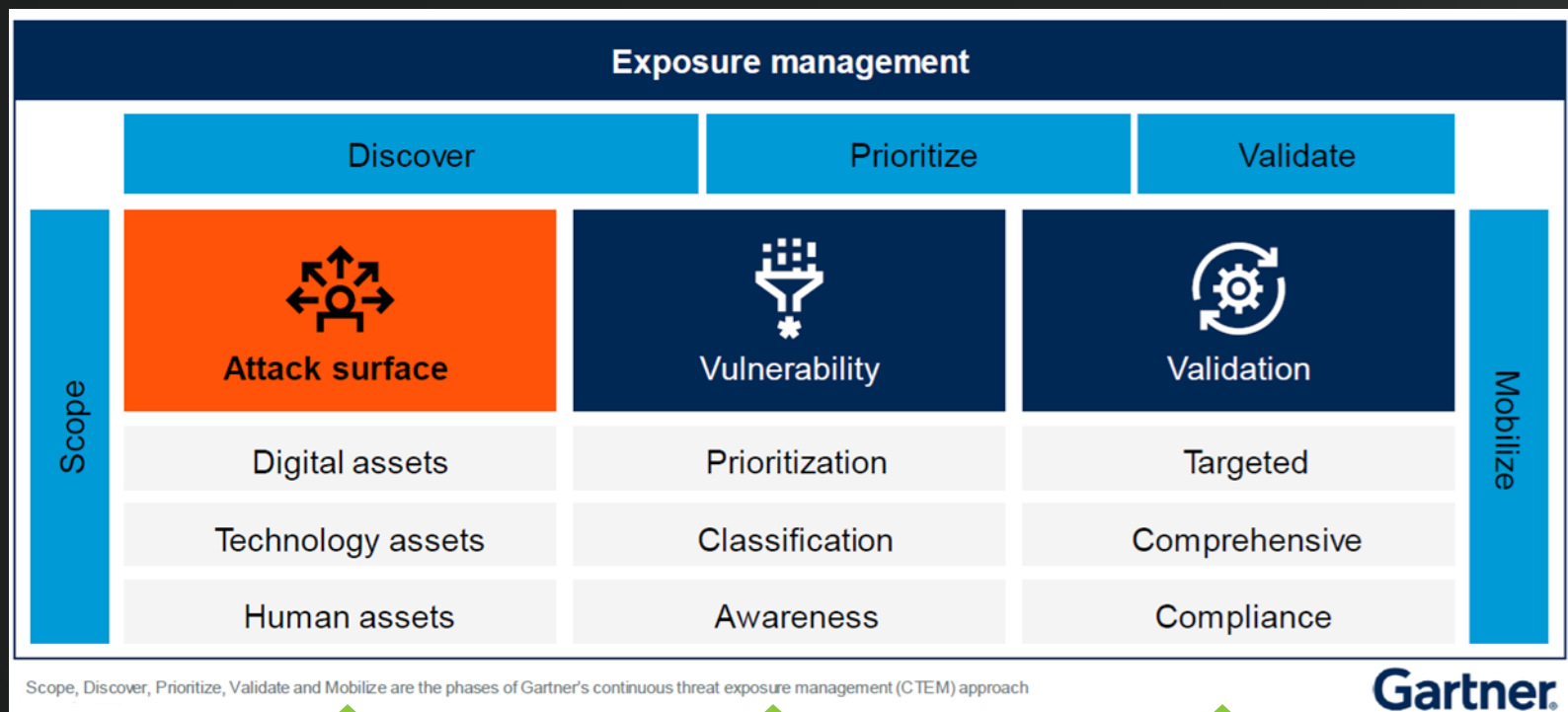
Vulnerabilities Exploited by Base Security Rating



CVSS = common vulnerability scoring system

Source: Gartner (data drawn from the IBM X-Force vulnerability database)

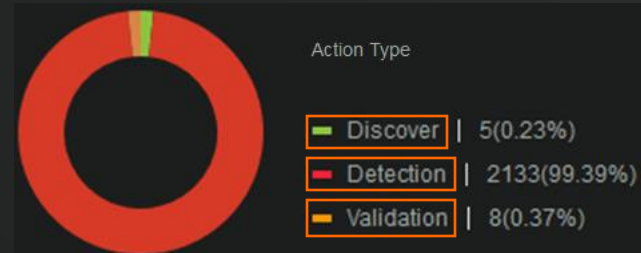
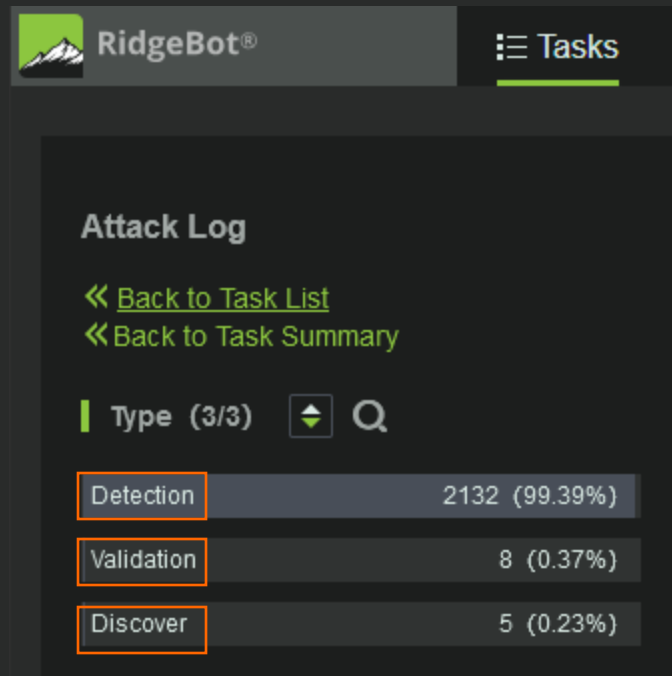
RidgeBot Supports Threat Exposure Management



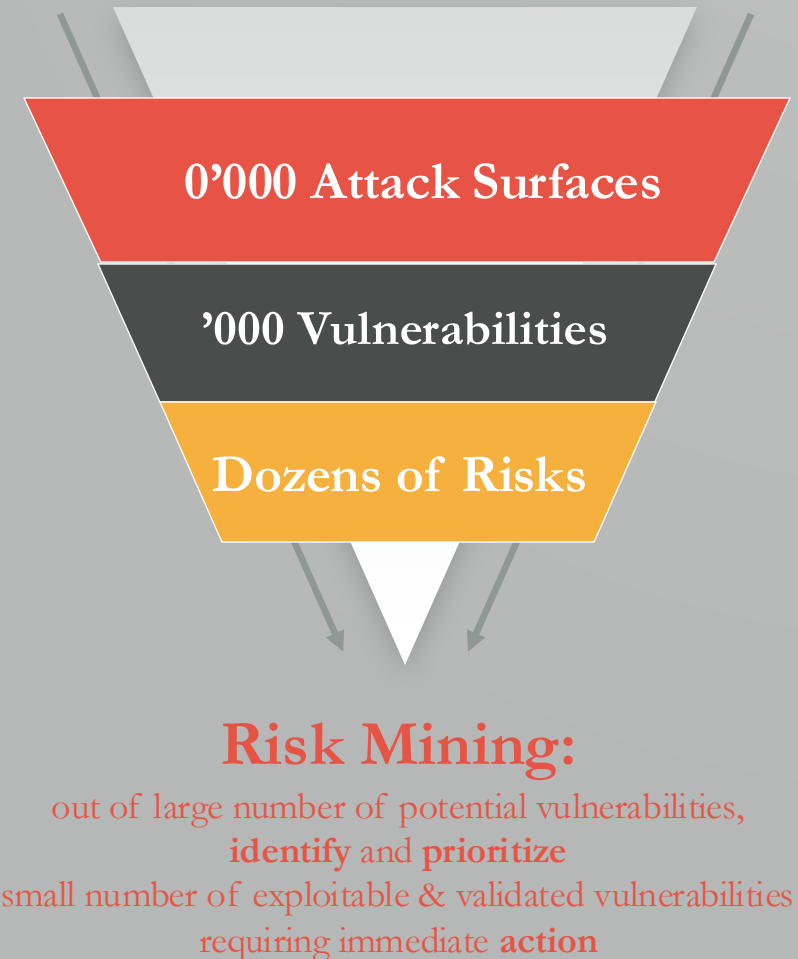
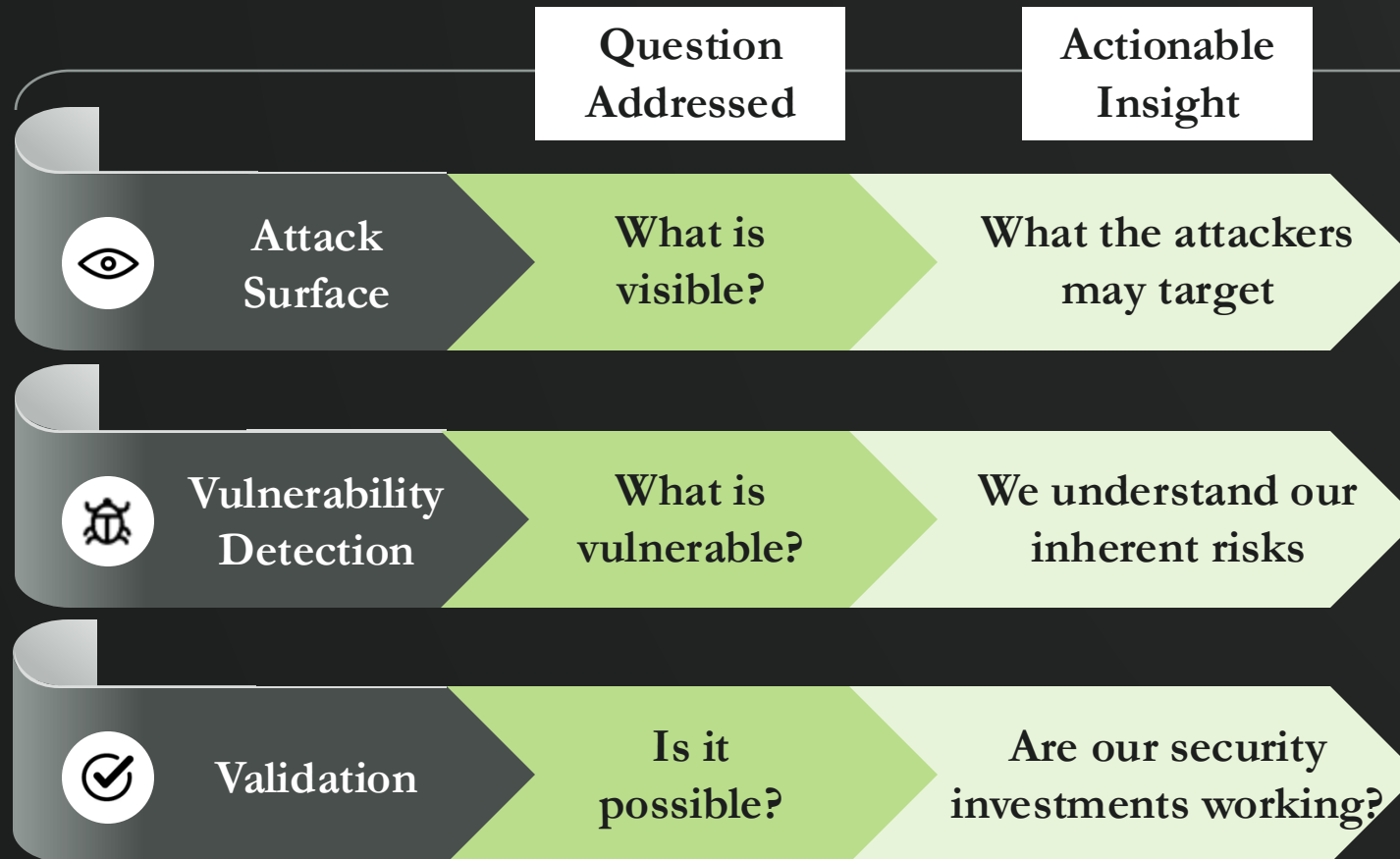
Discover

Detection

Validation



Smart Threat Exposure Mgmt Leads to Risk Mining



The background of the slide is a solid blue color. On the left side, there is a large, stylized map of the world composed of small white dots. Overlaid on this map are two network diagrams. The top diagram shows a central node connected to several other nodes, with a cursor icon pointing at one of the nodes. The bottom diagram shows a similar network structure but includes a Wi-Fi symbol and a document icon. In the center of the slide, the number '02' is displayed in a large, white, serif font.

HOW DOES RIDGEBOT WORK?

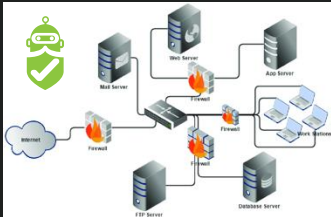
RIDGE SECURITY

RidgeBot – Easy to Operate



Minutes with RidgeBot vs Days/weeks of manual labor

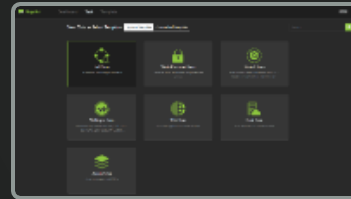
Deploy RidgeBots on
bare metal servers,
VMs or Clouds



Choose test approach
Pentest or ACE



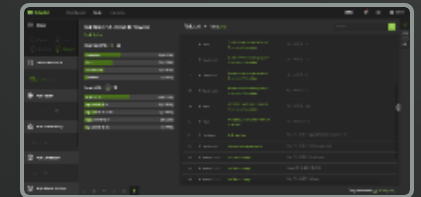
Start or Schedule a Task



Automated Testing



Review & Download
Risk Report



Steps

1

Deploy

2

Choose
test
approach

3

Schedule
task

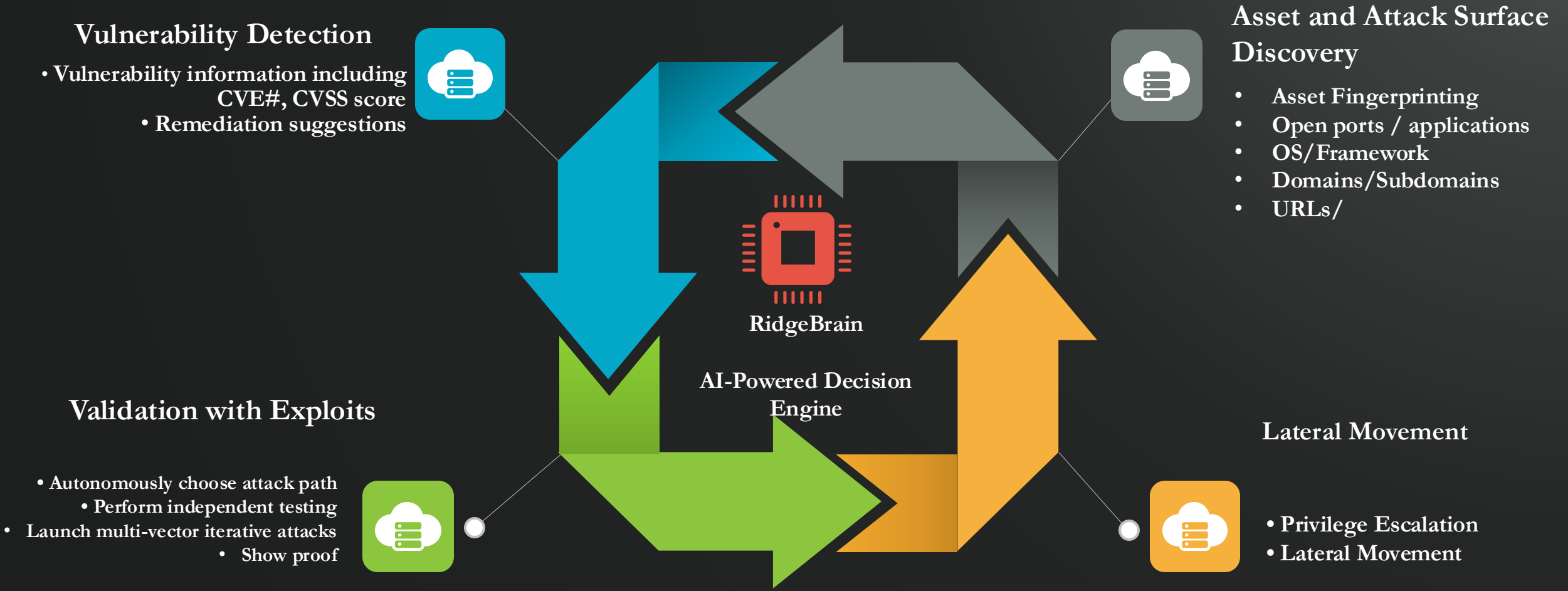
4

Automated
exploit

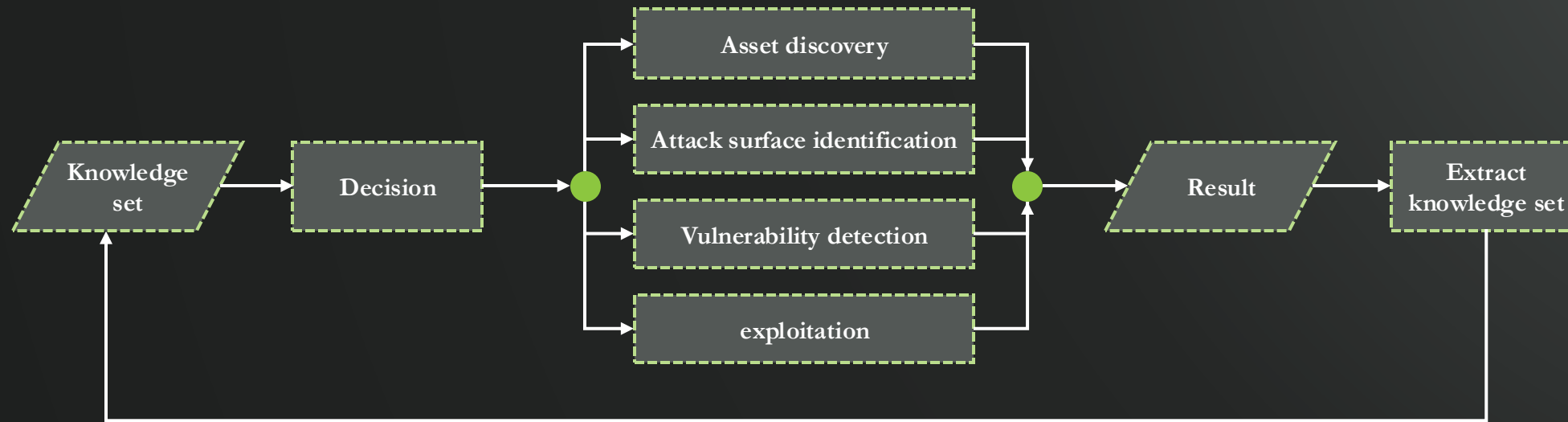
5

Review
report

/ 100% Automated



AI-Powered Security Validation



Technology which simulates human thoughts in penetration attacks, build in an iterative attack model, connecting various data and information produced during the attack process, establishing continuous iterative attack capabilities, and jointly exploiting multiple vulnerabilities to build a three-dimensional attack capability.

/ Risk Findings with Proof



The screenshot displays the RidgeBot Risk List interface. On the left, a sidebar shows filters for Risk Type (2/2) and Targets (1/1). The main area shows a table with columns: #, Risk Type, Related, and Target. A detailed view for a SQL injection vulnerability is shown, including a table with 4 rows and 112 columns, and a table with 8 rows and 8 columns. The table data is as follows:

#	Risk Type	Related	Target
2	Database Manipulations	SQL Injection	http://targetlib.ridgesecurity.ai:7777/artists.php?artist=1

The detailed view includes a table with 4 rows and 112 columns, and a table with 8 rows and 8 columns. The table data is as follows:

#	Risk Type	Related	Target
2	Database Manipulations	SQL Injection	http://targetlib.ridgesecurity.ai:7777/artists.php?artist=1

The screenshot displays the RidgeBot Attack Sequences interface. It shows a flowchart of attack sequences, including Attack sequence 1 through Attack sequence 9. The sequences are connected by arrows, indicating a flow of attack steps. The sequences include details such as Found 81 open, Found 3306 open, and Found 3306 open. The sequences are connected by arrows, indicating a flow of attack steps. The sequences include details such as Found 81 open, Found 3306 open, and Found 3306 open.

Exploit vulnerabilities

Show risk expose with evidence

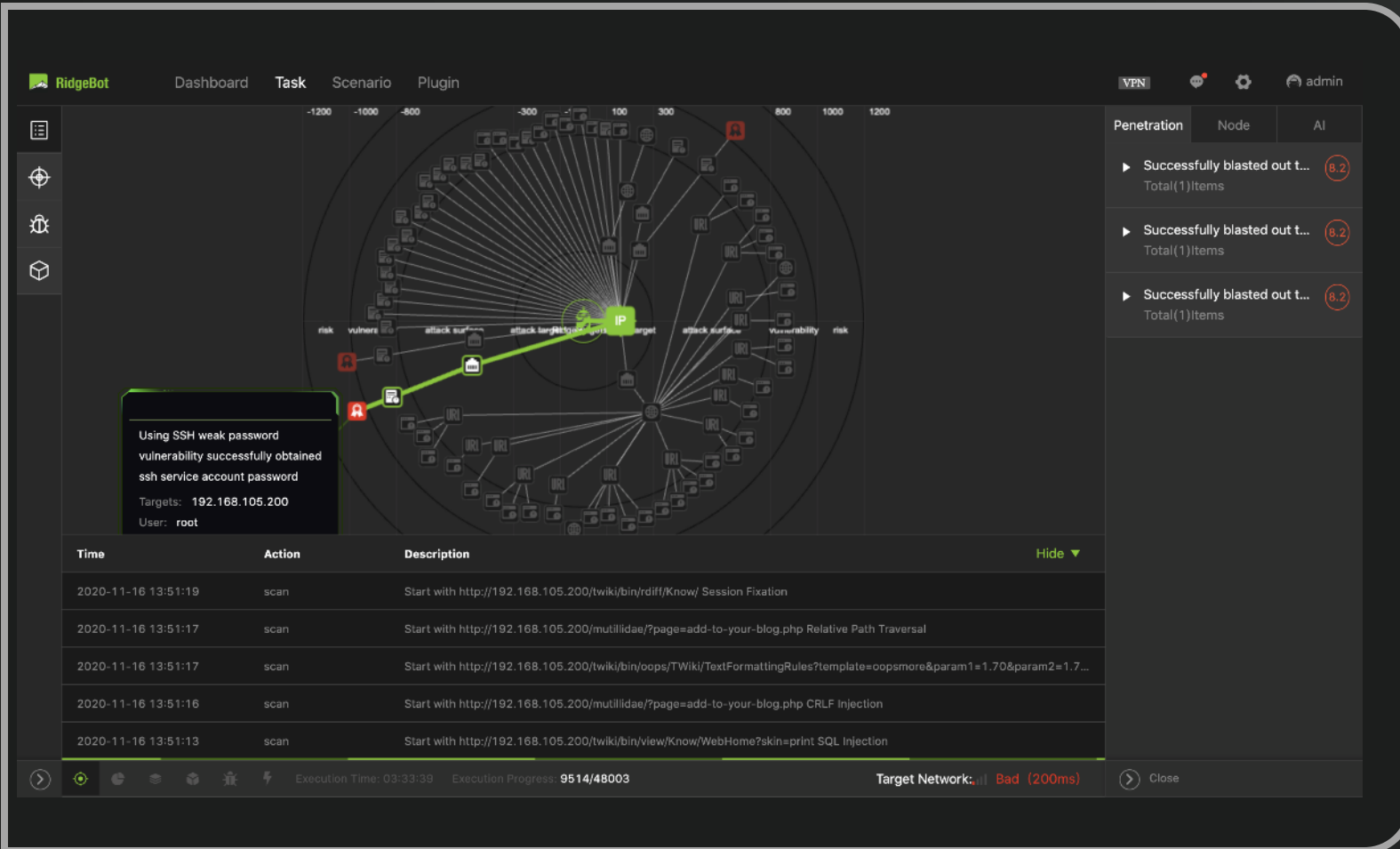
Provide remediation suggestion

How could this happen ?

What might be exposed ?

What shall I do about it ?

/ Realtime Attack Action Visibility



- ✓ **Auto Topology Drawing**
 - Shows relationships of assets and attack surfaces
 - Map out vulnerabilities and risks
- ✓ **Full Attack Path Visibility**
 - Track the attack source and show the attack details
- ✓ **Show the realtime actions on dashboard**
 - Discover
 - Scan
 - Exploit

/ Realtime Reports

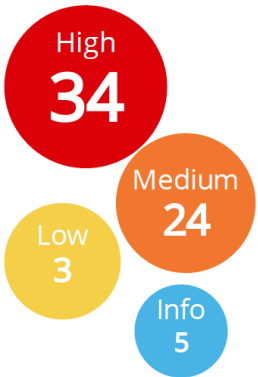


Risk Weighted Assessment

Critical Business Risk

Successful
8
Exploits

Vulnerabilities



RidgeBot Can Work Independently or in Conjunction with Vulnerability Management Solutions



RAPID7
insightVM

tenable
Vulnerability Management

Qualys

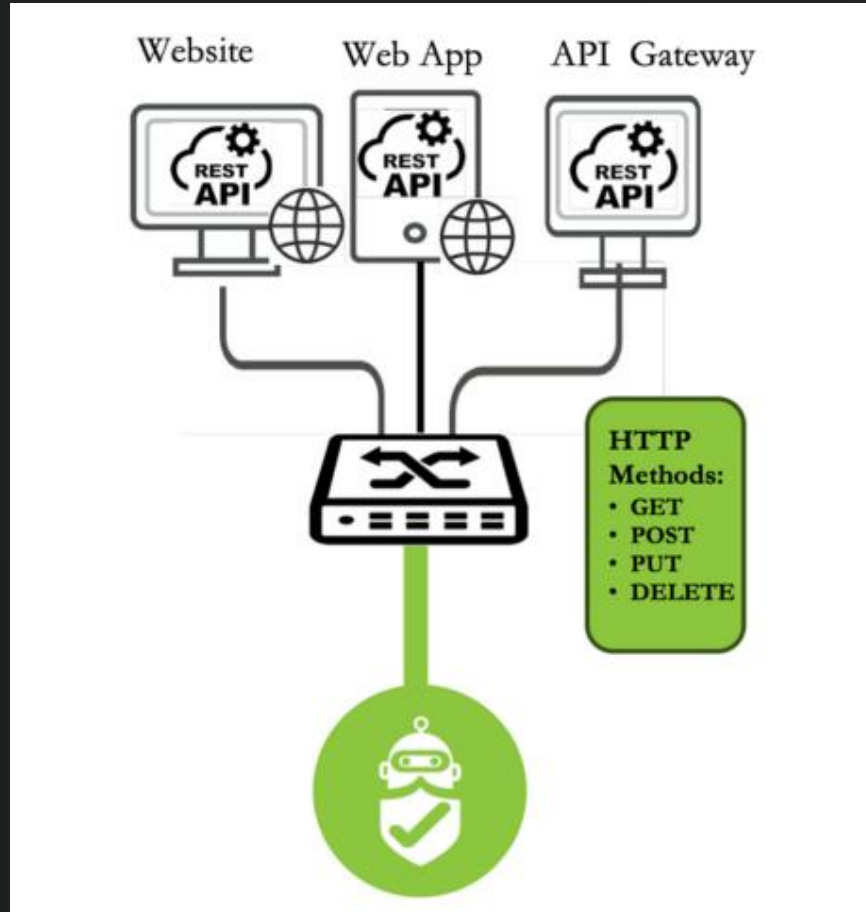
RidgeBot **complements** Vulnerability Management solutions' findings.

RidgeBot identifies vulnerabilities that are both exploitable and visible by threat actors. It reports such vulnerabilities as **validated vulnerabilities** that are business **risks** and immediately actionable.

RidgeBot's vulnerability validation results are now integrated into popular Vulnerability Management solutions' dashboards, such as Rapid7 InsightVM and Tenable VM.

Title	CVSS	CVSSv3	Risk	Published On	Modified On	Severity
MySQL dispatch_command() Multiple Format String Vulnerabilities	8.5		695	Sun Jul 12 2009	Thu May 26 2016	Critical
ISC BIND: Handling of zero length rdata can cause named to terminate unexpectedly (CVE-2012-1667)	8.5		569	Sun Jun 03 2012	Thu Mar 23 2023	Critical
'rexec' Remote Execution Service Enabled	8.5		569	Mon Jun 30 2008	Tue Dec 03 2013	Critical
PHP Vulnerability: CVE-2016-4342	8.3	8.8	589	Fri May 20 2016	Tue Jul 20 2021	Critical
HP ILO: CVE-2019-11983: Buffer overflow in CLI	8.3	7	469	Tue Jun 04 2019	Wed Oct 23 2019	Critical
USN-1374-1: Samba vulnerability	7.9		529	Wed Feb 22 2012	Wed Jul 08 2020	Critical
USN-1199-1: Apache vulnerability	7.8		1,000	Sun Aug 28 2011	Wed Jul 08 2020	Critical
Apache HTTPD: Range header remote DoS (CVE-2011-3192)	7.8	7.5	1,000	Sun Aug 28 2011	Mon Oct 14 2024	Critical
ISC BIND: An error in handling TKEY queries can cause named to exit with a REQUIRE assertion failure (CVE-2015-5477)	7.8		638	Tue Jul 28 2015	Thu Mar 23 2023	Critical
USN-612-4: ssl-cert vulnerability	7.8	7.5	614	Mon May 12 2008	Sun Feb 11 2024	Critical
USN-612-2: OpenSSH vulnerability	7.8	7.5	614	Mon May 12 2008	Sun Feb 11 2024	Critical
ISC BIND: Assertion Failure in buffer.c While Building Responses to a Specifically Constructed Request (CVE-2016-2776)	7.8	7.5	614	Tue Sep 27 2016	Thu Mar 23 2023	Critical
Debian's OpenSSL Library Predictable Random Number Generator	7.8	7.5	614	Mon May 12 2008	Sun Feb 11 2024	Critical
USN-1601-1: Bind vulnerability	7.8		522	Tue Oct 09 2012	Wed Jul 08 2020	Critical
ISC BIND: Specially crafted DNS data can cause a lookup in named (CVE-2012-5166)	7.8		522	Tue Oct 09 2012	Thu Mar 23 2023	Critical
ISC BIND: Parsing malformed keys may cause BIND to exit due to a failed assertion in buffer.c (CVE-2015-5722)	7.8		522	Thu Sep 03 2015	Thu Mar 23 2023	Critical
ISC BIND: A specially crafted Resource Record could cause named to terminate (CVE-2012-4244)	7.8		522	Thu Sep 13 2012	Thu Mar 23 2023	Critical
Apache HTTPD: HTTP request splitting with mod_rewrite and mod_proxy (CVE-2023-25690)	10	9.8	807	Mon Mar 06 2023	Mon Oct 14 2024	Critical


RidgeBot Web APIs Testing: Preventing Horizontal Escalation





- Uncover OWASP Top 10 API vulnerabilities such as broken authorization to prevent horizontal escalation attacks
- Provide both black-box and gray-box testing to identify API vulnerabilities and risks


/ Safety Control – No Damage to System



-  Clean up the path

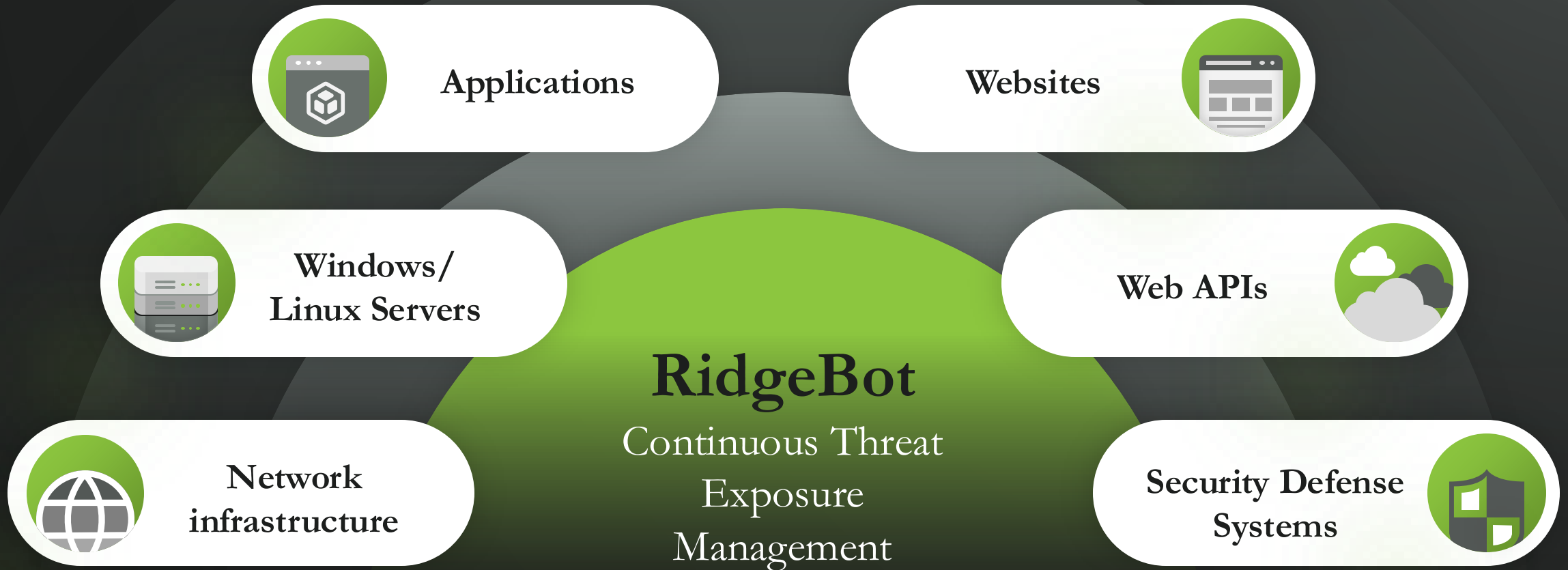
-  Being stealthy – rate limit

-  Disable damaging plugins

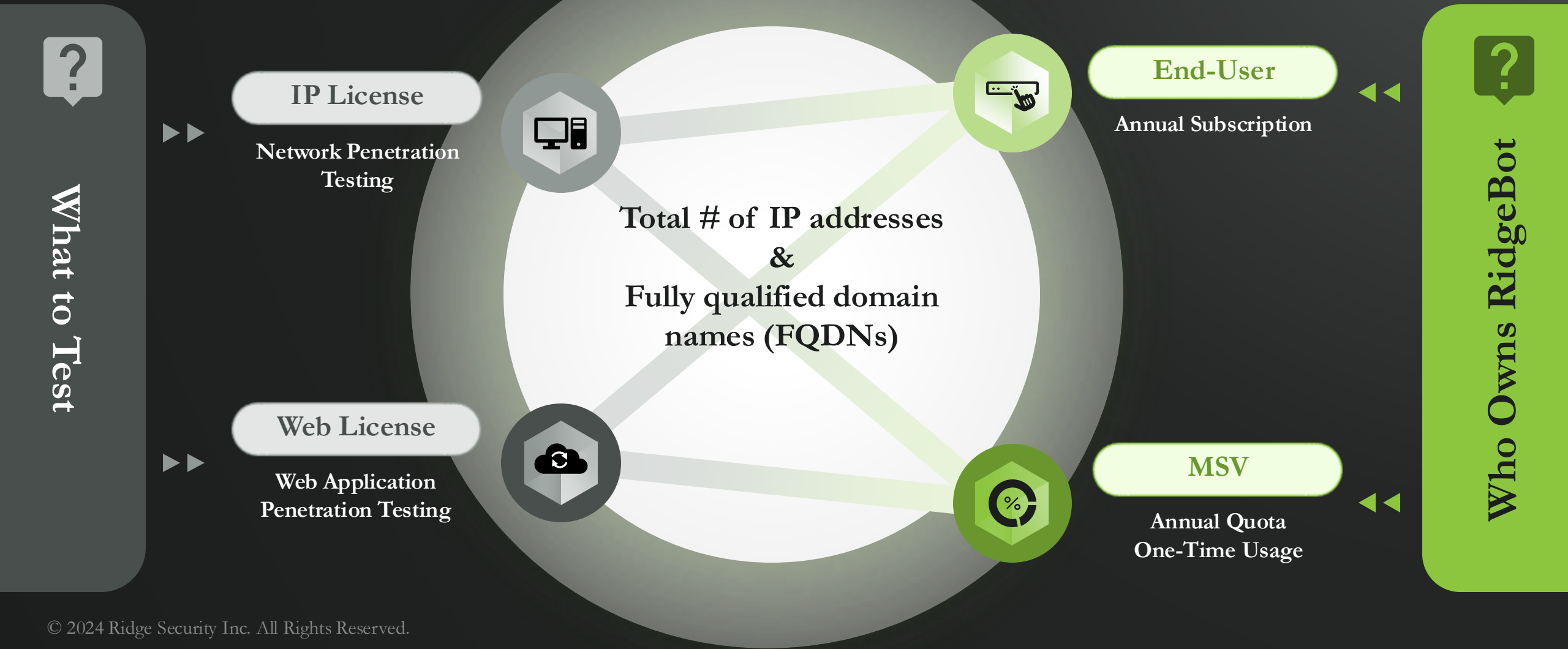
-  User intervention



/ Wider Coverage



Business Model – Software Subscription



WHAT CAN RIDGEBOT DO FOR ME?

RIDGE SECURITY

03

/ RidgeBot Benefits



1
Help CISO
understand overall
the cyber risks



2
Reduce workload
for security team
by pinpointing the
critical risks



3
Alleviate the
problem of
resource shortage
with automation



4
Continuous
manage the risks
and security
posture

Value Proposition



RidgeBot

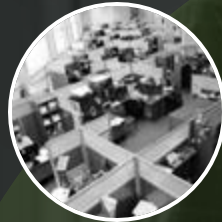
Security Validation AI Agent

Use Cases

Continuous Security
Control Validation
for **Large Enterprises**



Vulnerability
Validation
For all **Enterprises**



Cybersecurity
Hyperautomation
for **Small and Medium
Business**



Automated Pentest
Tools
for **Banking and
Government Agencies**



AUTOMATED
PENETRATION
TESTING

Application

1

2 Testing
Methodologies

ADVERSARY
CYBER
EMULATION

Enable Pentest as
a Service for
MSSPs



Contact Us!

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Ridge Security Technology Inc.

www.ridgesecurity.ai

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- **Twitter** <https://twitter.com/RidgeSecurityAI>
- **YouTube Channel** <https://youtube.com/ridgesecurity>



Thanks

Innovative approach to Security Validation Service



Statistics

Analytics