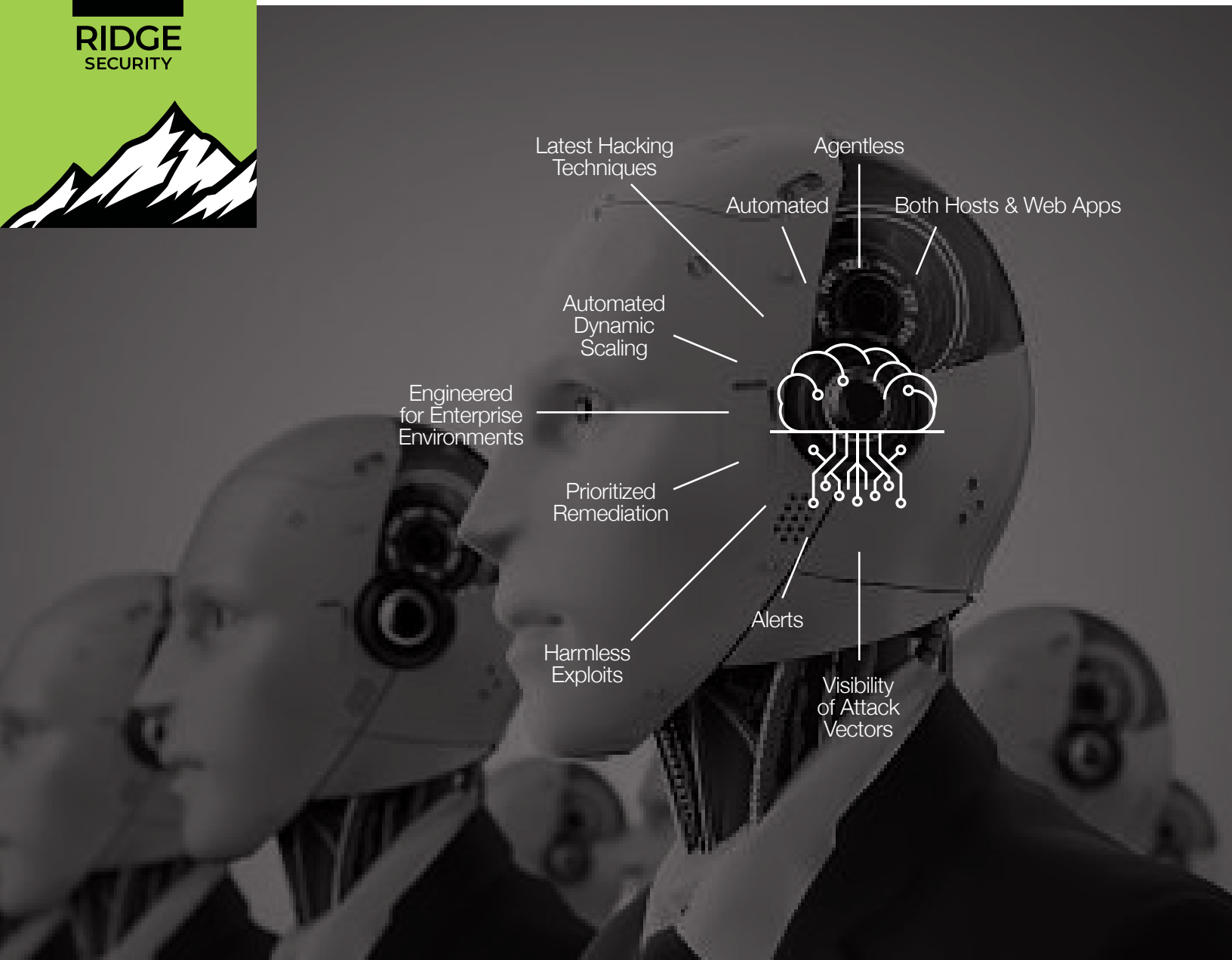
RidgeBOT Brings Affordable Pen Tests to Your Organization

RIDGE SECURITY

RidgeBOT

Enterprise-Class Automated Penetration Testing Using Intelligent Validation Robots



RidgeBOT automates the entire ethical hacking process **100x faster** than a human tester

RidgeSecurity is changing the game with RidgeBOT, an intelligent security validation robot. Equipped with state-of-the-art hacking techniques, RidgeBOT has a collective knowledge of threats, vulnerabilities, and exploits. Acting like an actual ethical attacker, RidgeBOT relentlessly locates, and documents exploits. Automating penetration testing makes it affordable with the ability to run at scale. Working within a defined scope, RidgeBOT instantly replicates to address highly complex structures.

RidgeSecurity enables enterprises and web application teams, DevOps, ISVs, governments, healthcare, education—anyone responsible for ensuring software security—to affordably and efficiently test their systems.

Challenges

Most organizations utilize security testing (a.k.a penetration testing) to validate the security posture of their network and systems. In such a test, security testers take on the role of a hacker and try to break into the organization's IT environment to find vulnerabilities and determine how they exploit a real-world hacker attack. The underlying idea is that a good security test should reveal how an attacker could infiltrate an organization's systems before it happens. Proper penetration testing helps organizations address issues in a more manageable and cost-effective manner.

However, attackers are always developing new exploits and attack methods, often using machine learning (ML) to launch attacks automatically. Enterprises' security teams and professional "penetration testers" are under tremendous pressure to keep up.

RidgeBOT's Solution and Key Benefit

RidgeBOT provides automated security validation services. It assists security testers in overcoming knowledge and experience limitations and always performs at a consistent top-level. The shift from manual-based, labor-intensive testing to machine-assisted automation alleviates the current severe shortage of security professionals. It allows human security experts to let go of daily labor-intensive work and devote more energy to the research of new threats and new technologies.

- Improve security test coverage and efficiency
- Reduce the cost of security validation
- Continuously protect the IT environment
- Produce actionable and reliable results for different stakeholders

RidgeBOT brings **automated penetration testing** within reach of every organization.

RidgeBOT Key Functions

In a given task, RidgeBOT automates the entire ethical hacking process. When it connects to an organization's IT environment, RidgeBOT automatically discovers all different types of assets on the network and then utilizes the collective knowledge database of vulnerabilities to mine the target system. Once RidgeBOT identifies vulnerabilities, it uses built-in hacking techniques and exploits libraries to launch an actual ethical attack against the vulnerability. If successful, the vulnerability is validated, and the entire kill-chain transaction is documented.

RidgeBOT provides rich analytics for risk assessment and prioritization, exporting a comprehensive report with remediation advice, giving tools for patch verification.

Asset Discovery—Based on smart crawl techniques and fingerprint algorithms, discover broad types of IT assets: IPs, domains, hosts, OS, apps, websites, plugins, and network devices.

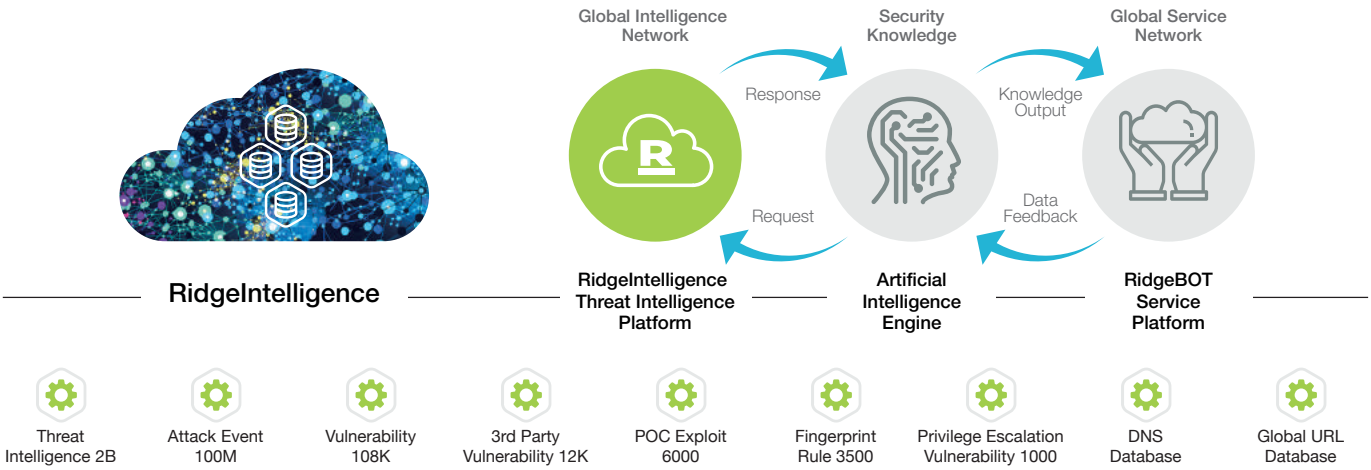
Vulnerability Mining—Utilizing proprietary scanning tools, our rich knowledge base of vulnerabilities and security breach events, plus various risk modeling.

Vulnerability Exploit—Use a smart sandbox to simulate real-world attacks with toolkits. Collect more data for a further attack in a post-breach stage.

Risk Prioritization—Automatically form an analytic view, visualize a kill chain, and display a hacker's script. Show hacking results like data and escalated privileges from the compromised objects.

Higher Precision and More Discoveries with AI Brain

RidgeBOT has a powerful "brain" that contains artificial intelligence algorithms and an expert knowledge base that guides RidgeBOT in attack pathfinding/selection. It launches iterative attacks based on learnings along the path, achieving more comprehensive test coverage and deeper inspection.

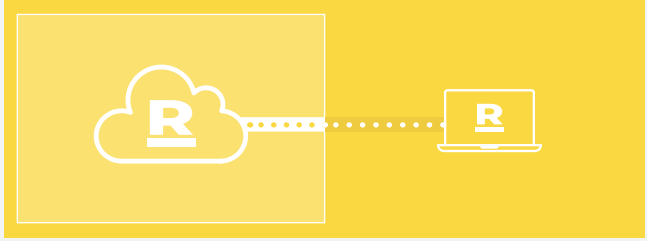


Two Deployment Scenarios

On-Premise Model

For enterprise environment—deploy RidgeBOT to bare metal or virtual servers within your environment. This configuration provides the highest performance at the lowest TOC.

VPN-Based Service



For ad hoc penetration testing, our VPN-based services are ideal. Contact RidgeSecurity, or an Authorized RidgeBOT MSSP to learn more about the VPN-based service.

On-Premise System Requirements

For On-Premise deployment, Our RidgeBOT solution is a software package deployed on specified bare metal servers or virtual machines. The RidgeBOT software package includes the RidgeIntelligence platform, the RidgeBrain engine, and RidgeBOT plugins. Software upgrades are provided through professional services. We recommend on-premise deployment for organizations to have complete control over test procedures, findings, and sensitive data involved.

Bare Metal Server Deployments	**Essential**	**Advanced**
Minimum Hardware Requirement	• Intel Xeon CPU with a minimum of 4 cores • 32 GB RAM • 1TB Enterprise hard drive • 2 Ethernet interfaces	• Dual Intel Xeon CPUs with a minimum of 6 cores each • 64 GB RAM • 2 X 4TB Enterprise hard drive with RAID controller (RAID 1) • 2 Ethernet interfaces
Reference Platforms	Dell PowerEdge, Lenovo ThinkSystem, HP ProLiant and more	
Concurrent Bots	16	32

Virtual Machine Deployments	**Demonstration/Lab**	**Production**
Minimum Hardware Requirement	• 8 vCPU • 16 GB RAM • 100 GB Storage • 2 Ethernet interfaces	• 8 vCPU • 32 GB RAM • 100 GB Storage • 2 Ethernet interfaces
Concurrent Bots	8	16
Supported Hypervisors	• VMware Workstation 15 Pro or higher • VMware Fusion 11 Pro or higher • VMware ESXi 5.0 or higher • Oracle VirtualBox 6.0 or higher	

About RidgeSecurity

RidgeSecurity is transforming Security Validation with RidgeBOT, an Intelligent Security Validation Robot. RidgeBOT's are modeled using techniques utilized by literally millions of hackers that penetrate systems. When deployed within a system, RidgeBOT's are relentless in their quest to locate, exploit, and document their findings. They work within a defined scope and instantly replicate to address highly complex structures. RidgeSecurity enables enterprise and web application teams, ISVs, DevOps, governments, education, anyone responsible for ensuring software security to affordably and efficiently test their systems.

Contact RidgeSecurity to learn more.

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