



ROOTNIK LABS

# Red Teaming Activities

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#startupindia



# TABLE OF CONTENTS

1	<b>INTRODUCTION</b>	02
2	<b>ABOUT US</b>	03
3	<b>OUR SERVICES</b>	04
4	<b>EXECUTIONS</b>	13
5	<b>CLIENTS AND STANDARDS</b>	16
6	<b>CLIENT TESTIMONIALS</b>	17
7	<b>CONTACT US</b>	18

# Introduction

RootNik Labs is a service based cyber security company which specialises in application auditing, security consultation, risk assessment and training service.



2013 Certified Enterprise



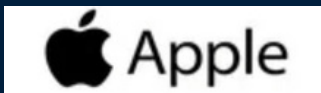
2015 Certified Enterprise



Accredited Training Partner of EC-council

"Revolutionizing cyber defense with our innovative managed cyber security services ,we dismantle security obstructions to pave the way for your unbridled success in the digital realm."

## We have helped in Securing :-



# About Us

At RootNik Labs, everything we do is inspired by our vision, mission and our core values.



**“Our professionals have years of experience in securing critical assets of corporate clients.”**

## VISION

Data security is a necessity, not a luxury and making it affordable is our top priority.

## MISSION

Provide a resilient, goal-enabling, and assuring operating cyber-environment to each and every one of our unique and highly valued clients by consistently striving to identify, design, and intervene in delivering customized cybersecurity, digital forensics, and privacy-enhancing services and solutions that meet their needs.

- 1) A leading 360° managed cybersecurity service provider startup.
- 2) Established by a group of dedicated security researchers, this team brings together a wealth of expertise in network security, application security and red teaming.
- 3) Our research-driven approach contributed to the security of open-source software and tech giants like – Apple, Google, Lenovo, Microsoft, DELL and many more.
- 4) 20+ Indian & Global Clientele.
- 5) Trained over 1000+ students.
- 6) ISO-9001, ISO-27001 Certified Enterprise.
- 7) Registered under MSME and Startup India.
- 8) EC Council Accredited Training Center.



**Safeguarding data integrity is imperative, and our primary focus is to make it accessible without compromising on affordability.**



# Our Services

## Infrastructure Penetration Testing

RootNik Labs specializes in Infrastructure Penetration Testing, providing administrators with the tools to close unused ports and additional services, customize banners, troubleshoot services, and calibrate firewall rules. Our expertise ensures that your backbone network is secure, implementing restricted data encapsulation and secure data routing. We are committed to fortifying your infrastructure against potential vulnerabilities and enhancing the overall security posture of your network.



### 1

Securing your on-premises hardware infrastructures, physical and virtual servers, and local storage by analysing their accessibility and vulnerabilities, as well as monitoring sessions and DoS assaults.

### 2

Security experts at RootNik Labs ensure that your backbone network is safe, that you have restricted data encapsulation, and that you have secure data routing.

### 3

We help you close unused ports, troubleshoot services, audit network architecture, and calibrate firewall rules.



# Application Penetration Testing

In the vast and dynamic world of web, mobile, and desktop applications, RootNik Labs stands as a versatile guardian, offering tailored solutions that transcend platforms. Our seasoned experts delve into the intricacies of each domain, ensuring the security and resilience of your applications across the diverse realms of the digital landscape. Trust in RootNik Labs for a comprehensive and steadfast approach to fortify your web, mobile, and desktop applications against vulnerabilities, delivering excellence across every platform.

## 1

Web, mobile and desktop applications capture and hold sensitive corporate and customer data.



## 2

80% of cyber-attacks occur at the application layer

## 3

Improve the security of your applications by using our in-depth manual and automated assessment methodologies.





# Mobile App Penetration Testing

Leveraging the specialized Mobile Penetration Testing expertise of RootNik Labs, we conduct exhaustive assessments on your static, dynamic, and interactive Mobile Applications. Our evaluation meticulously aligns with industry standards in Mobile Attack scenarios, delivering a comprehensive analysis to ensure the robust security of your mobile application.



## 1

Our experts perform comprehensive assessments on your static, dynamic, and interactive Mobile Applications based on industry standards in Mobile Attack scenarios.

## 2

Evaluate Security & Data Exposure Risk for iOS and Android apps

## 3

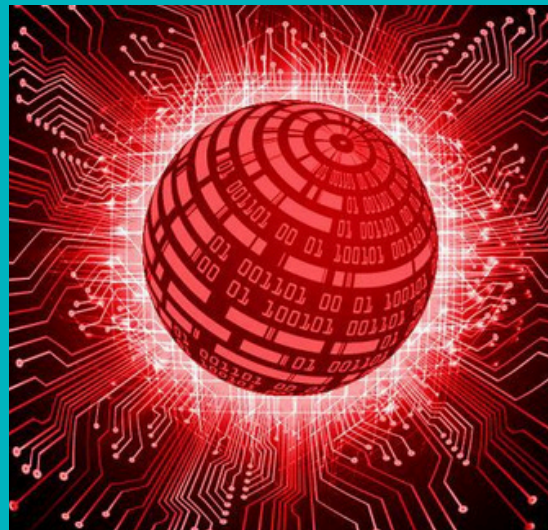
Dynamic analysis done is to identify security flaws or weak areas in the application, while it is running

# RED Team Assessment

RootNik Labs intricately replicates the strategies, techniques, and procedures characteristic of a real-world targeted attack, seamlessly progressing from passive reconnaissance through advanced attack simulation. Ultimately, it adeptly breaches the perimeters of defensive control systems, all the while minimizing the negative consequences for the organization.

## 1

RootNik Labs' Red Team Assessments simulate the whole attack lifecycle, from passive reconnaissance to advanced attack simulation all the way to breaching the defensive controls system's perimeter.



## 2

We mimic a real-world targeted attack's strategies, techniques, and procedures without impacting your business

## 3

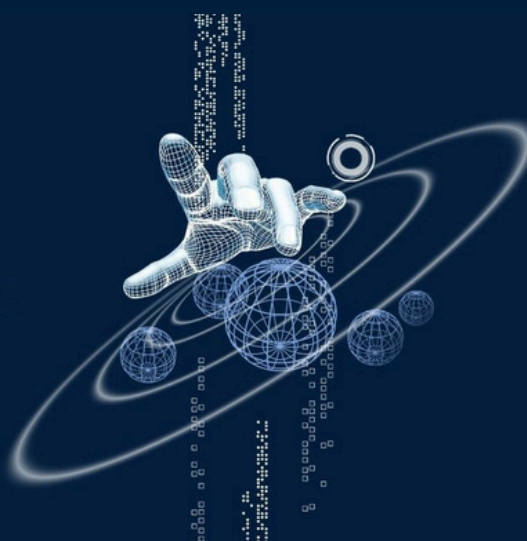
We use both private and public intelligence collecting tactics for maximum result.





# Source Code Review Services

At RootNik Labs, our seasoned experts engage in a thorough exploration of security vulnerabilities tailored to the distinctive characteristics inherent in each programming language. This meticulous scrutiny is achieved through a comprehensive source code audit, underscoring our commitment to discerning and addressing language-specific vulnerabilities. Recognizing the inherent diversity across programming languages, we prioritize a nuanced approach to bolstering security measures, ensuring a robust defense against potential threats in the ever-evolving landscape of software development.



## 1

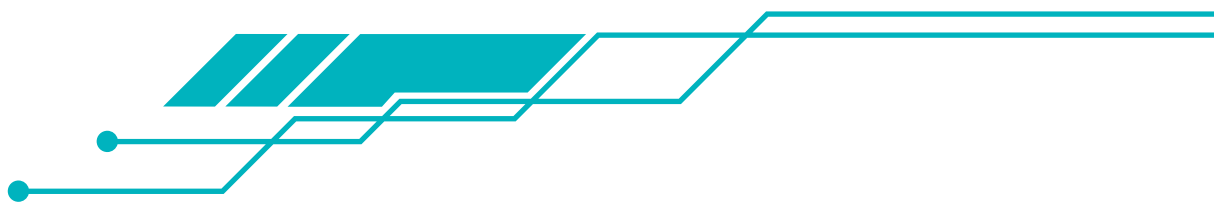
Peer-to-peer source code review allows you to identify critical bugs and complex coding errors before your application goes to the next steps.

## 2

Static Application Security Testing (SAST), a white box testing technique, is implemented that aids your business in finding and exposing backdoors and malicious activities embedded in source code, decreasing the likelihood of data exfiltration.

## 3

Experts examine security vulnerabilities specific to each programming language via a comprehensive rules of audit.



# API Penetration Testing

In the operational context of RootNik Labs, the Application Programming Interface (API) meticulously employs discrete data packets to facilitate seamless communication between the server and client. This strategic data transmission methodology ensures that only essential information is shared, safeguarding the integrity of the interaction. However, the potential for vulnerability looms large, as malicious actors could exploit these API endpoints, thereby jeopardizing the sanctity of the system. Unauthorized access and the compromise of sensitive data emerge as plausible consequences of such breaches.

## 1

Making it easier for customers to interact with data in a system. Critically secure your back-end infrastructure and authentication with the most robust defence mechanisms



## 2

Appreciate the security levels of your API-enabled applications

## 3

Our in-depth manual and automated assessment methodologies help you achieve this.



# Cloud Security Testing

Within the domain of Cloud Security Testing, RootNik Labs conducts rigorous assessments of security protocols in cloud-based infrastructures. This involves scrutinizing vulnerabilities, assessing encryption efficacy, and evaluating access controls. The critical importance of this testing lies in fortifying cloud systems against unauthorized access and potential breaches. Timely identification and mitigation of vulnerabilities are essential to uphold the integrity and confidentiality of data hosted in the cloud within RootNik Labs' framework.



## 1

RootNik Labs offers cloud security testing to evaluate and strengthen the security of your cloud infrastructure, protecting your data and resources

## 2

The bad news is attackers are now targeting them; IBM estimates the Global average cost of a data breach is 3.86 million dollars.

## 3

The good news is we help in securing your cloud infrastructure and backend functionalities with our Cloud Security Testing services.

# Digital Forensic Services

RootNik Labs stands out as a leading authority in the realm of digital forensics, leveraging its specialized expertise to facilitate the meticulous investigation and recovery of essential data in the aftermath of intricate cyber incidents. With a steadfast commitment to excellence, RootNik Labs serves as a reliable partner, navigating the complexities of the digital landscape to ensure the comprehensive analysis and retrieval of critical information, thereby contributing to the effective resolution and mitigation of cybersecurity challenges.

## 1

With the help of an industry-leading forensics team, our experts recover critical digital evidence to aid your investigation.

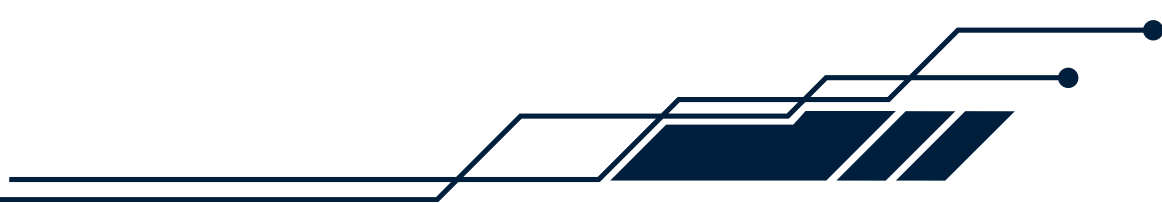


## 2

We can work on your case remotely, in-lab, or on-site, as per your needs.

## 3

To learn more about how we may assist you, please contact us or submit a case immediately



# Compliance Audit Services

Supercharge your business with RootNik Labs' certifications in ISO 27001, HIPAA, PCI DSS, and GDPR. These standards not only elevate your operations but also instill customer trust, leading to increased sales. Our expert team ensures a smooth certification process, making it a seamless journey toward business growth. Partner with RootNik Labs to fortify your business, showcase commitment to top-tier security, and build enduring customer confidence.



## 1

Strict internal and vendor audit programs that reduce risk and expense

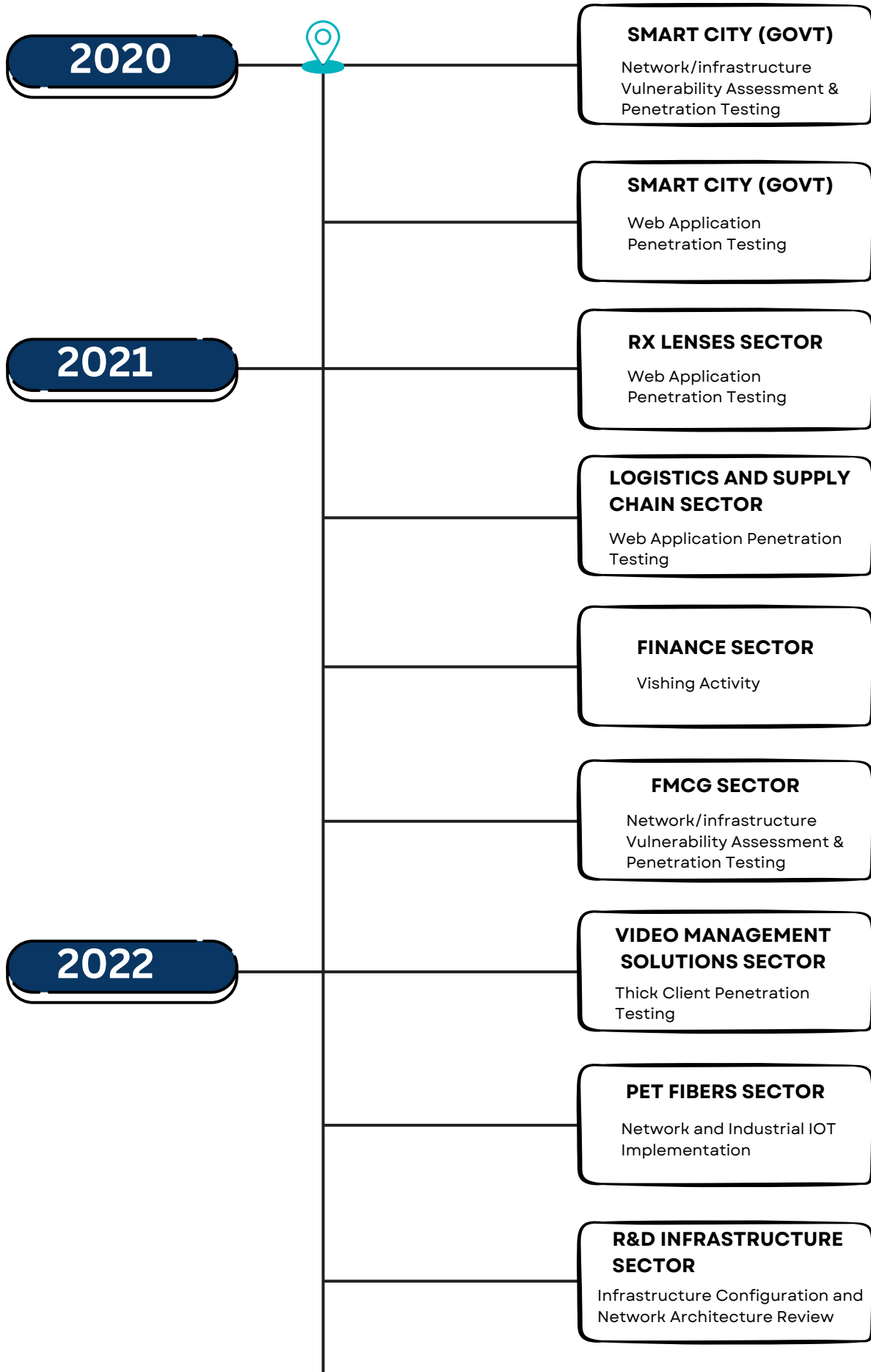
## 2

Audits are required to identify control deficiencies and determine whether or not the organization is meeting regulatory standards.

## 3

Compliance helps clients, employees, and business partners gain more trust in the company.

# Executions:





2023

**SUPPLY CHAIN SECTOR**

Network/infrastructure  
Vulnerability Assessment &  
Penetration testing

**FINANCE SECTOR**

Thick Client Penetration  
Testing of Printing Kiosks

**POWER UTILITIES  
SECTOR**

Email Security Assessment

**TRAVEL INITIATIVE  
SCHEME (GOVT)**

Source Code Review of Web,  
Android & iOS Application

**BANKING SECTOR**

CIS Benchmark & System  
Configuration Review

**PORT SECTOR (GOVT)**

Thick Client Penetration  
Testing

**FINTECH SECTOR**

Cloud Infrastructure Security  
Assessment & Web Application  
Penetration Testing

**ELECTRONICS INDUSTRY  
SECTOR (GOVT)**

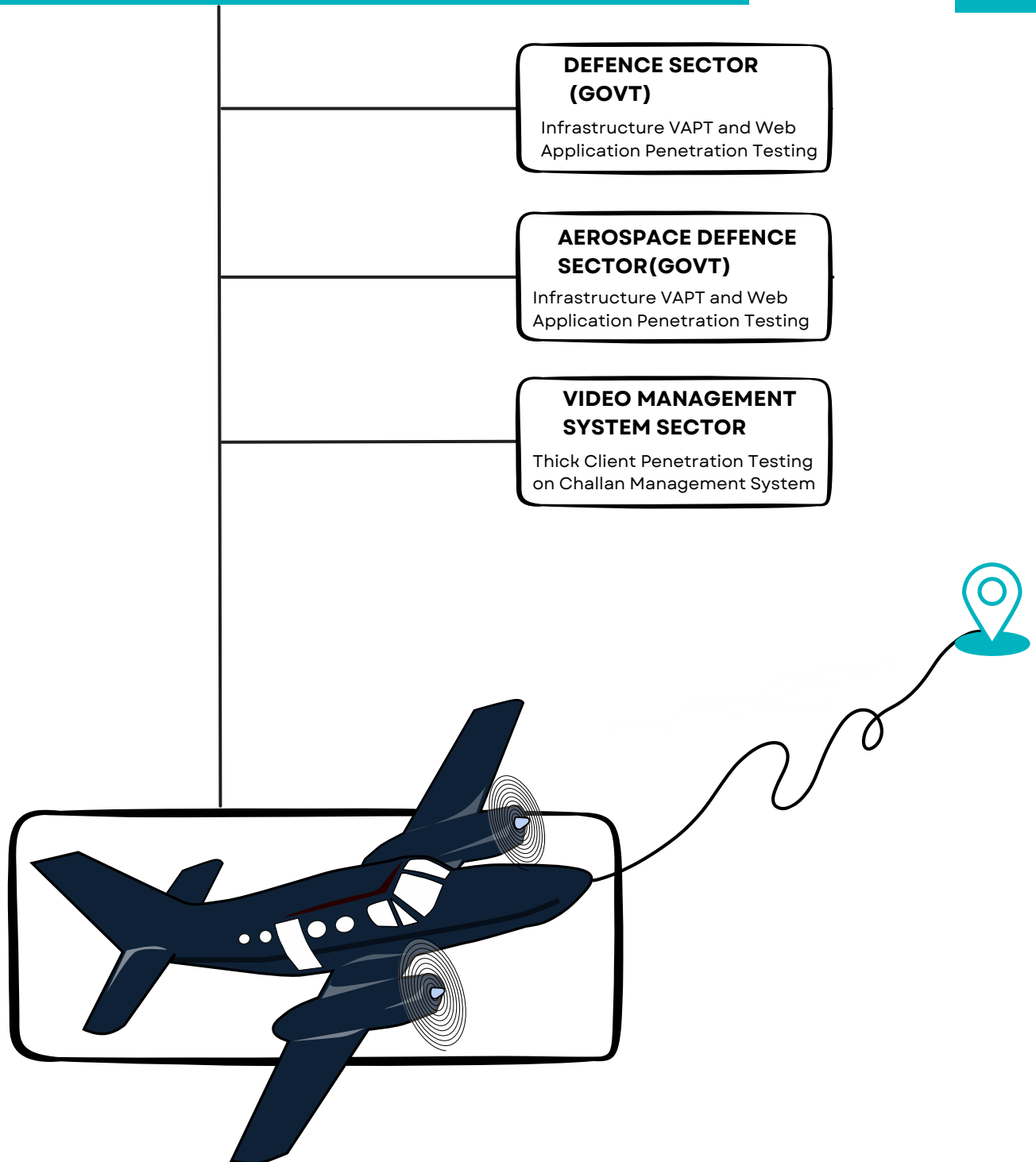
Infrastructure Penetration  
Testing and Corporate Training  
on Secure Coding Practices

**EDUCATION SECTOR**

Industrial Training program  
on Cyber Security

**EDUCATION SECTOR**

Cyber Security Lab  
Implementation



# Audit Standard:



# Team Skill Set:



# Client Testimonials:



## Aditesh Vats

EY GDS, Senior security analyst

Undoubtedly one of the great ventures in terms of security. They have highly qualified mentors and a great enthusiastic team which keeps on updating their arsenal so to keep them one step ahead in security domain.



## Nitin Pandey

Cyber Consultant, Uttar Pradesh Cyber Crime

RootNik Labs team is highly professional. They are able to provide the needed solution for every concern related to security issues. I would highly recommend RootNik Labs for services like VAPT, Compliance Audit, Red Team Assessments, Digital Forensic, and many more.



## Dr. Ranjeet Kumar Singh

CEO, Sherlock Institute of Forensic Science India,  
SIFS INDIA Forensic Lab

One of the finest company which leads towards providing outstanding services in cyber security and digital forensic services. One of your strengths is that you almost always deliver every assigned work on time.



## Akhilesh Kanduri

Cyber Crime Investigator, Hyderabad Police.

Great services ! Provides Great support from beginning to end of the process. The team are really very professional and go the extra mile at every stage. I would recommend them unreservedly.



# ROOTNIK LABS

*Security Matters!*

## Do you know?

“A Stitch in time saves nine”– Globally 30,000 websites are hacked daily and 64% of companies worldwide has experienced at least one type of cyber attack. Thus a firm decision to do a security audit will save your company from becoming a part of that Astonishing statistics!!

## Registered Office:

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West Bengal – 743348

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