VANTAGE POINT SECURITY

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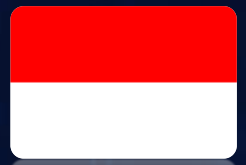

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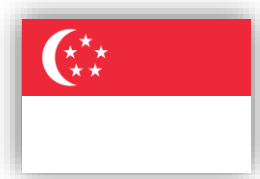
About Vantage Point Security

2014

Founded in Singapore, providing penetration testing for the Banking and Finance industry.



2017

Team established in Jakarta, Indonesia.

2018

Our team authored the OWASP MASTG and MASVS, setting the global mobile security testing standard.

2020

Development begins on VELOCITY, Vantage Point Security's proprietary quality assurance and compliance verification system for Requirements Based Testing (RBT).

2023

Offices opened and team established in Bangkok, Thailand.

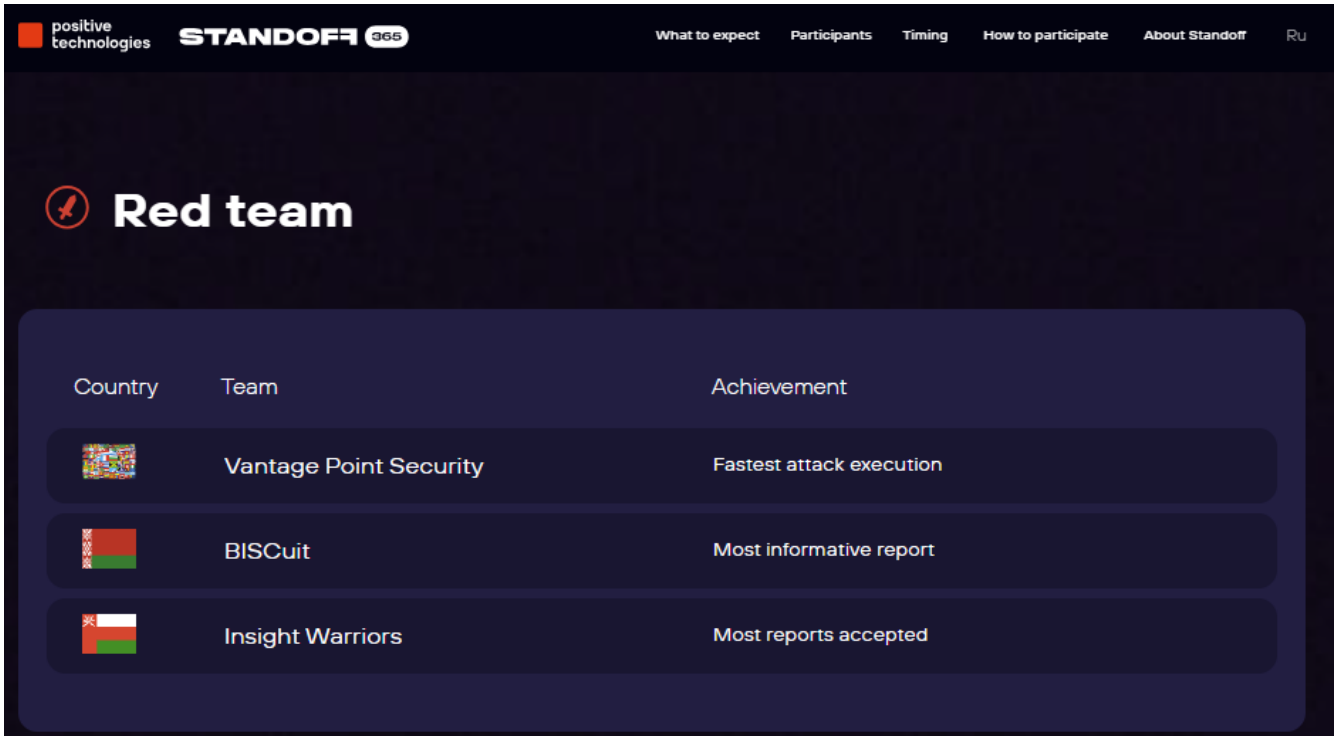
All 3 Vantage Point Security country teams are licensed by the Singapore Cybersecurity Services Regulation Office (CSRO) to perform Penetration Testing services in Singapore.

Our Credentials

- Vantage Point Security have one of the largest CREST-approved security teams in Southeast Asia with offices in Singapore, Indonesia, and Thailand.
- CREST is a globally recognised accreditation and certification body and a hallmark of excellence and a testament to Vantage Points adherence to the highest standards of cybersecurity practices and ethical conduct.

- Vantage Point Security is licensed by Singapore Cybersecurity Services Regulation Office “CSRO” to perform Penetration Testing Services in Singapore. The CSRO licensing framework serves to regulate the cybersecurity industry and elevate the overall professionalism and standards of cybersecurity service providers in Singapore.

Our Recognition



Vantage Point Security achieved first in the international cyber exercise taking place online as part of the Innovation Space at the St. Petersburg International Economic Forum (SPIEF) 2024 Standoff 365 Cyberbattle Competition under the **Red team category for the Fastest attack execution.**

VANTAGE POINT SECURITY

Our Services

Application Security

- Mobile Application Security Testing
- Web Application Security Testing
- API Security Testing
- Thick Client Security Testing

Source Code Security

- Static Application Security Testing (SAST)
- Software Composition Analysis (SCA)

Cloud Security

- Cloud Security Assessments (GCP, AWS & Azure)

Infrastructure Security

- Network Vulnerability Assessment
- Network Penetration Testing
- Active Directory Security Testing
- Wireless Network Penetration Testing
- Security Configuration Review

Red Teaming

- Red Team Assessment

Client-Specific Services

- ATM Penetration Testing
- Customised Security Integrations (e.g. JIRA Reporting/Upload)

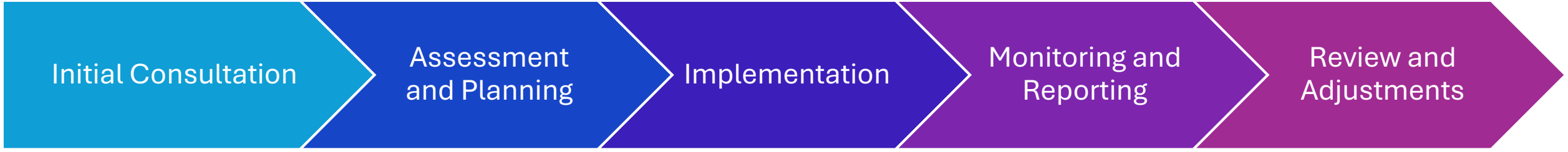
VANTAGE POINT SECURITY

Our Clients

Banking	Financial Institutions	Insurance	Government
Ecommerce	Healthcare	Telecommunications	Technology
Logistics	Manufacturing	Energy & Utilities	Non-Profit (NGO)

Our Unique Value Proposition (UVP)

- ✓ We integrate Security by Design seamlessly into clients' development processes, not limited to Waterfall, Agile, DevOps, or DevSecOps framework.
- ✓ Our approach ensures that security is embedded from the outset, rather than being an afterthought at the tail end of clients' projects.
- ✓ Our proactive integration not only maximises clients' investment by avoiding costly last-minute fixes but also mitigates the risk of expensive remediation and rectification resulting from security breaches
- ✓ We assist and advise clients to build robust, secure systems and protect their organisation's assets effectively



Our UVP: VELOCITY

VELOCITY is Vantage Point Security's proprietary **testing orchestration and compliance verification platform**, designed to **ensure the quality, consistency, and compliance** of our security assessments. By integrating automation with expert-driven insights, VELOCITY enhances the efficiency, accuracy, and regulatory alignment of cybersecurity testing.

Key features:

- ✓ **Automated Testing Workflow:** Streamlines and standardises security testing processes, ensuring consistent execution across all engagements.
- ✓ **Compliance Assurance:** Maps security assessments to legal, regulatory, and industry standards (e.g., PDPA, OWASP MASTG, NIST SP 800-53, OWASP WSTG) ensuring full compliance.
- ✓ **Quality Control & Reporting:** Implements rigorous quality checks and real-time reporting to validate test results and maintain high assessment standards.
- ✓ **Centralized Dashboard:** Provides a single-pane view of ongoing tests, compliance status, and actionable insights for security teams.
- ✓ **Scalability & Customization:** Adapts to different environments and security requirements, allowing for tailored testing methodologies.

Our UVP: Deliverables

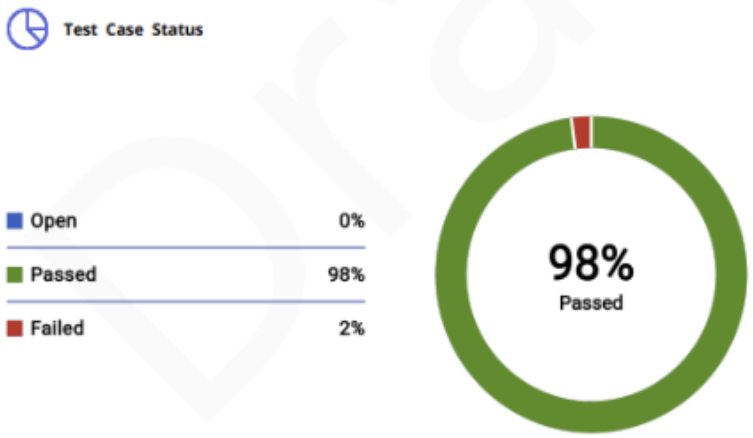
VANTAGE POINT SECURITY

3.3. Vulnerabilities Statistics

Findings Overview

	Total 2	Open 2	Closed 0
0 Critical	No findings		
1 High	1 Open, 0 Closed.		
1 Medium	1 Open, 0 Closed.		
0 Low	No findings		
0 Observational	No findings		

Test Case Status



4.1. Android Memory Corruption

High / Score: 8.1
Open
CVSS:3.1/AV:L/AC:H/PR:N/UI:N/S:C/C:H/I:H/A:H

BACKGROUND

Android applications often run on a VM where most of the memory corruption issues have been taken care off. This does not mean that there are no memory corruption bugs. Take CVE-2018-9522 for instance, which is related to serialisation issues using Parcels. Next, in native code, we still see the same issues as we explained in the general memory corruption section. Last, we see memory bugs in supporting services, such as with the Stagefright attack as shown at BlackHat.

DESCRIPTION

It was found that the reviewed App contains a memory corruption vulnerability which may be exploited by threat actors.

IMPACT

A threat actor may attempt to exploit the memory corruption vulnerability. This can happen for instance when a reference to the Context object is passed to a non-Activity class, or when you pass references to Activity classes to your helper classes.

RECOMMENDATIONS

There are various methods to mitigate this vulnerability.

- In case of native code: use Valgrind or Mempatrol to analyze the memory usage and memory calls made by the code.
- In case of Java/Kotlin code, try to recompile the app and use it with Squares leak canary.
- Check with the Memory Profiler from Android Studio for leakage.
- Check with the Android Java Deserialization Vulnerability Tester, for serialization vulnerabilities.

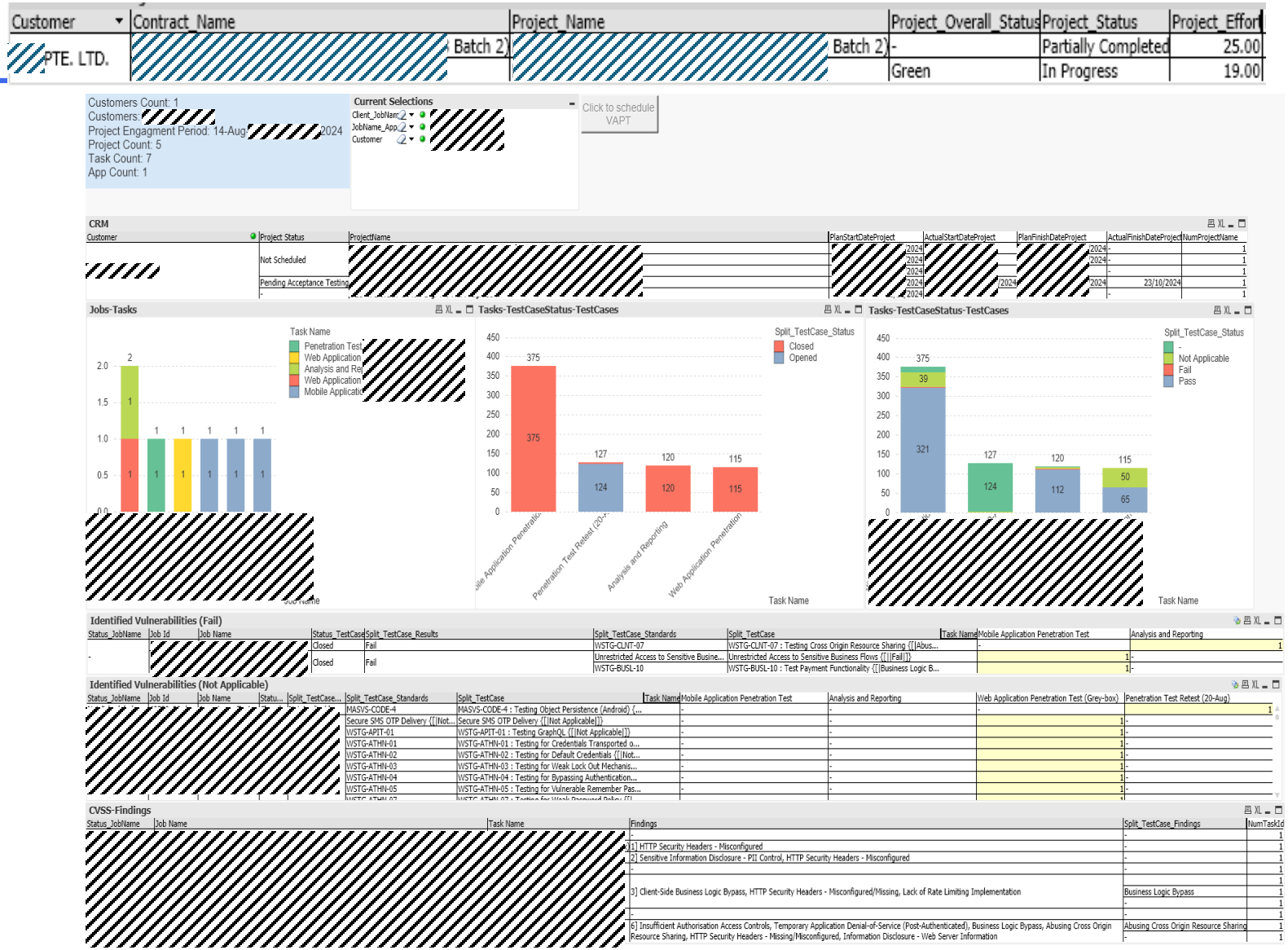
REFERENCES

Finding Memory Corruption Bugs
https://github.com/OWASP/owasp-mstg/blob/master/Document/0x05i-Testing-Code-Quality-and-Build-Settings.md#memory-corruption-bugs-mstg-code-8

9 ways to avoid memory leaks in Android
https://android.jlelse.eu/9-ways-to-avoid-memory-leaks-in-android-b6d81648e35e

Memory Leak Patterns in Android
https://android.jlelse.eu/memory-leak-patterns-in-android-4741a7fcb570

Our UVP: Insights



- ✓ **Identify key insights** from past projects, such as trends, risks, and benchmarks.
- ✓ **Deliver insights** into reports, workshops, or executive briefings.
- ✓ **Align insights with business goals** like cost reduction, compliance, and security improvements.
- ✓ **Provide seamless upgrade options** by integrating insights with monitoring or consulting services..
- ✓ **Position insights** as essential for risk mitigation and maintaining a competitive edge..
- ✓ **Offer a subscription model** for ongoing insight reviews and exclusive threat briefings.

Why choose Vantage Point Security?

>10 YEARS EXPERIENCE IN SECURITY TESTING ACROSS SOUTHEAST ASIA

> 50 CREST REGISTERED PENETRATION TESTERS ACROSS 3 COUNTRIES – SINGAPORE, INDONESIA & THAILAND

CLIENTS INCLUDE **TOP 10 BANKING, INSURANCE & FINANCE FIRMS IN SOUTHEAST ASIA**

>70,000 HOURS OF SECURITY TESTING ANNUALLY

INNOVATION & INTELLECTUAL PROPERTY – **VELOCITY**

VANTAGE POINT SECURITY

Singapore – Indonesia - Thailand

Thank you for this opportunity to share our competitive advantage.

Ivy Leow

Customer Success Manager

Year 2025