HCL
Application Security
On-Demand

Protecting business critical applications

Organizations are under increased pressure to innovate, rapidly develop new applications, and adopt new technologies such as social, mobile, analytics, cloud, IOT etc. This increases the security risk to business applications and systems. The number of security breaches reported in recent times is escalating, the threat of an attack from hackers and criminal organizations is more pertinent today than ever before.

Close to 80% of the applications have at least one critical or high vulnerability issue. With the rise in open source code in your applications nearly 90% applications have high critical vulnerabilities.

The average cost of data breach is around $7.2M and it takes an average of 80 days to detect it.

This accrues not only through lost revenue, but as a result of reputational damage that can destroy trust to increase losses still further.

A key reason for this increased vulnerability is the speed at which new applications are released. Web and mobile applications capture and hold customer data, including credit card information. Yet, because of the pressure to release quickly, the security checks needed to manage applications and systems in depth are often incomplete. This leaves organizations susceptible to attacks.

There are many challenges that organizations are faced with.

- Firstly, developers have never been educated on the importance of AppSec and do not understand the risk they are imposing on their organization when they write an insecure software

- Organizations are having a difficult time finding skilled resources and AppSec expertise to scan their apps

- The sheer number of applications being developed today is exploding and organizations cannot keep up their AppSec testing efforts

- With the movement to a DevOps environment and to a cycle of constant updates and releases, organizations are having a tough time keeping up and enforcing their testing processes, so organizations are opting out of testing to meet release deadlines

- It's important to ensure every application that runs a business is secured and protected. This includes outsourced, commercial, off the shelf software and open source that is incorporated into your applications. If they are not tested properly, it will increase the risk to your business

- Mobile applications are a very important part of the business and a major chunk of the customer' businesses are happening through mobile apps and protecting them from vulnerabilities across different mobile devices is critical to the organization

A fresh approach

Given the complexity of today's environment, the traditional approach of securing applications in silos is not an effective way of handling security. There is a need for a much more radical approach which should be robust, scalable, and be able to connect with the dynamics of the application. Selecting the right tool sets that can effectively identify the vulnerabilities is an important component of this approach, along with skilled resources who have the expertise to interpret and provide solutions. We provide multi stage services in protecting your applications
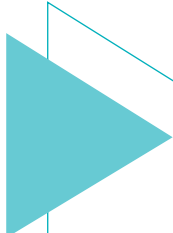
STAGE 1
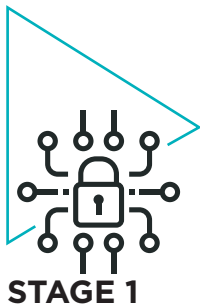
Protection during design and development

Static Code Analysis (SAST): Apart from protecting the applications from external attacks, it is essential to look at the application's software build to detect errors and defects. Static code analysis should be done early in the development lifecycle and continuously used throughout the life of the application.
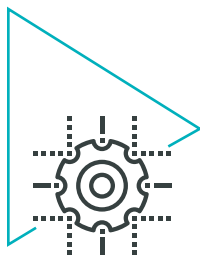
STAGE 2

Protection at the pre-production / production environment:

Dynamic Application Security Testing (DAST): Dynamic Application Security Testing (DAST) helps identify security vulnerability in an application in its running state. It mimics real-world hacking techniques and attacks and provides comprehensive dynamic analysis of complex web applications and services.
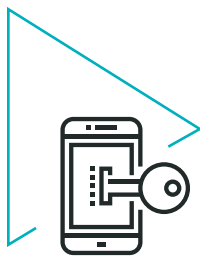
STAGE 3

DecSecOps automation:

Security testing Integrating with the build environment will help in addressing the agile environment challenges and bring an automated workflow to implement security in to the development lifecycle.

STAGE 4

Software composition analysis(SCA)

Using open source software / API in their application code is becoming more and more prevalent in recent times and hackers are gaining entry through malware introduced in the open source software. So verifying them for SCA is very important.

STAGE 5

Mobile application SAST analysis

HCL application security On-Demand offers a mobile application security testing solution delivered as a cloud-based managed services to help the customers with making their apps secured and the service can perform interactive and static analysis of

- Android mobile app
- iOS mobile app

With all the 3 pillars people, technology and process coming together, the customer can be confident that they are well protected from the application security challenges.

APPLICATION DAST TESTING

- Dynamic Analysis
- Automated Pen Test
- Manual Pen Test
- Authentication & Authorization Testing
- Web API Service Testing

APPLICATION SOURCE CODE ANALYSIS (SAST)

- Static Source Code Analysis
- Code Standards Review
- Debugging
- Mobile Source Analysis
- Tool Assisted Review
- Remediation Help Desk

APPLICATION COMPOSITION ANALYSIS

- 3rd Party open source API analysis
- Open Source Vulnerability detection
- 300,000 vulnerability sources for analysis

DEVSEC OPS AUTOMATION

- Secure Coding Checklist
- Estabilishing Designs Requirements
- Attack Surface Analysis
- Threat Modelling
- Integration
- Incident Response Plan

WEB APPLICATION	MOBILE APPLICATION	ENTERPRISE APPLICATION

What we Deliver?

Our solution combines market leading technology with the deep security expertise of our people. Powered by HCL ASoC, an on-demand platform, it sits within our cybersecurity portfolio and perfectly complements our wide range of established cyber security services. We will support your digital transformation, giving you the reassurance you need, to embrace new ways of working.

Application Security Testing is quick to implement, cost effective, and protects your applications in three easy steps:

Upload the code into the managed environment or give access to the URL

Conduct the scan / analysis for SAST/ DAST and manual scan

Review the reports for false positives, analyze manually and provide dashboard for reporting.

Remediation assistance for quicker resolution and making developers priortize vulnerabities.

Top reasons why you should use this service

:

- Managed Services offering to the customer for easier service offering
- Single vendor to support all your required application security needs supported by application security experts
- Ecosystem/Integration with Vulnerability management assessment service (VMaaS), DevOps
- Grows with business – comprehensive offering – Can increase the scope of application scanned gradually without much capex cost
- Application Security experts support for prioritizing the vulnerabilities or removing false positives
- Mitigating the risk of managing infrastructure and platform

How Do
You Benefit?

- **Deep Expertise:** HCL has a team of highly skilled and certified application security experts. They are equipped with security incident handing capabilities along with niche skillset in penetration testing, attacks and breaches

- **Swift response:** Threat and vulnerabilities don't wait for us to respond. They are likely to have a catastrophic impact if not dealt properly

- **Console view:** Dashboard provides unique access to customers to view their application security status via its highly intuitive and customizable dashboard

- **Service Integration and Advance Analytics:** Threats and vulnerabilities are no longer isolated incidents. They must be considered as interlinked entities with reference to Threat Intelligence and SIEM. The HCL CyberSecurity Fusion Centers (CSFC) can help you in providing Managed Threat Service and Incident Response with advance analytics capability

- **Appscan is HCL owned:** With Developers, Support, Services, Security Experts all in one company, supporting customers end-to-end becomes easy and effective

- **Experience in domain:** Our domain experience will ensure that we meet the different industry compliances like SOX, HIPPA, PCI etc.

For more details, please write to: **security-grcmarketing1@hcl.com**

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