Bringing secure coding and automated vulnerability remediation into the SSDLC

A brief look at how Lucent Sky AVM is embedded in SSDLCs to provide centralized, standardized, code-based vulnerability remediation.

Lucent Sky
application mitigation for enterprise

SUMMARY

Application layer security and secure code walk hand in hand. However, many organizations treat static analyzer results like white noise that can be ignored and dealt with later in the Secure Software Development Lifecycle (SSDLC). Lucent Sky AVM has the unique capability of fixing the most common security vulnerabilities with code-based Instant Fixes. Discover how companies are using Lucent Sky AVM to secure old and new applications through centralized and automated instant fixes.

A FOCUS ON SECURE SOFTWARE DEVELOPMENT

Many solutions work in runtime, when security flaws have already been pushed into production. This makes sense - if a team is choosing between a revenue generating feature and fixing code-based vulnerabilities, the equation will tip toward pushing code and runtime defense.

Lucent Sky AVM can change the equation of fixing vulnerabilities. We're not putting lipstick on a pig. Whether it's a legacy application that needs to stay securely online or a new application going through rapid change and development, Lucent Sky AVM provides centralized, developer centric security that improves code quality.

DETERMINING THE NEED FOR APPLICATION VULNERABILITY MITIGATION

New and old applications often have more source code level vulnerabilities than can be manually remediated. Organizations that use Application Vulnerability Mitigation (AVM) technology typically have static analyzer results from a SAST vendor, and think of remediation as a process management issue.

Lucent Sky AVM works by scanning the code and delivery analysis *and* mitigation results. Each vulnerability is matched with an Instant Fix generated according to established and pre-approved security best practice, delivered and placed into the code by Lucent Sky AVM. Subsequent scans show the vulnerability to be remediated. Secure code can move through the SSDLC.

HOMEGROWN VS OUTSOURCE MITIGATION

Turning SAST reports into remediated, secure code could be a full-time job. So, it doesn't get done. Lucent Sky AVM is rules-based and centralized, meaning that a team or developers have full control of when vulnerabilities are removed from code.

- Review and approve Instant Fixes
- Deploy as fits best into the SSDLC - within the build script, via API calls or using a web interface.

- Fully centralized rule creation: developers and managers have full oversight of if and when Instant Fixes are placed, allowing them to solve vulnerabilities systematically and at scale.

COMPLIANCE

AVM technology helps companies remediate in a compliant manner through established security best practices and pre-approved enterprise security libraries. This standardizes remediation and provides scalable mechanisms of addressing known vulnerabilities.

Lucent Sky AVM is placed within the SDLC at the same point as manual remediation. All functional and security testing should take place as if a developer manually placed each remediation.

THE SSDLC: ALWAYS A WORK IN PROGRESS

Application security priorities are often different for older applications and new ones. Regardless of the structure and maturity of an SSDLC, Lucent Sky AVM can offer consistent, scalable mitigation to enhance code quality and reduce risk.

Legacy applications:

- Rapidly clean up code. Lucent Sky AVM once removed over 10,000 vulnerabilities from a legacy application and saved it from being taken offline.

New applications:

- Secure as you add features and functionalities: run Lucent Sky AVM routinely and regularly so you never push a vulnerability into production.

CONCLUSION

Lucent Sky AVM is a targeted remediation product that does the work of many developers in one scan. By integrating with the SSDLC in a centralized, rules-based manner, Lucent Sky advances application security outcomes by removing vulnerabilities at the source.

ABOUT LUCENT SKY

Lucent Sky has developed a new application security technology that enables application layer vulnerabilities to be removed from the source code in a centralized and automated manner.

Existing applications can rapidly increase their security posture in one scan by removing vulnerabilities en masse, enabling legacy applications to be compliant with new security standards. For new applications, Lucent Sky AVM allows developers to secure code as its developed, preventing a security backlog by removing common vulnerabilities within their code.

Fast and expedient, Lucent Sky AVM fits within the SSDLC and works at the pace of development.