AVM CONSULTING

Application Security Practice Offerings

Application Penetration Testing

The overall goal of an application penetration test is to uncover software vulnerabilities, demonstrate the impact of the weaknesses, and provide recommendations for mitigation.

AVM Consulting always follows a highly structured methodology to ensure a thorough test of the entire target environment and each layer of the organization's security posture. AVM's unique approach, comprised of pre-engagement interaction, reconnaissance, vulnerability analysis, vulnerability verification, reporting, and debriefing phases, ensures that our client's application and supporting components are tested to the full extent with minimal business impact.

Static Application Security Testing (SAST)

Static testing also known as Source Code Review is the process of performing automated and manual code reviews of an application's source code. Static analysis testing takes an inside-out approach to identifying insecure development patterns in application source code.

AVM delivers white-box static analysis scanning, analysis of scan results and manual code review in a scalable manner. Reviews can be performed on-demand on a per-application basis and/or a per-release basis.

Dynamic Application Security Testing (DAST)

The objective of the Dynamic scanning is to identify vulnerabilities within the run-time application, evaluate the application's security posture, and to observe how it stands up against an attack. The security expert performs a simulated attack on the application to identify faults, but with care to help ensure that the systems stay online. Running automated web application security scan against the application during the testing phase helps identify known security vulnerabilities such as, cross-site scripting, SQL injection, command execution, directory traversal and insecure server configuration.

DevSecOps Implementation

DevSecOps is a fundamental capability that enables the organization to move forward effectively and efficiently on its strategic journey. Moving towards a more digitally advanced landscape requires strong governance and standards to be in place to ensure that automation of activities and functions are done in a manner that retains and improves the organization risk posture.

AVM offers organization to create "security as code" culture in which security is integrated with all phases of DevOps practices – keeping compliance, regulations, and security top-of-mind while maintain speed, agility, and innovation.

AVM customized solutions to integrate and automate security within various CI/CD platforms allows organizations to effectively bake security into their software development lifecycle.

Security Architecture Review

The purpose of an Application Security Architecture Review is to assess the overall application's architecture and identify potential gaps with respect to security controls and industry best practices. Based on AMV's extensive experience in Application Security, we often observe that up to half of the software defects that result in security issues have their foundation in design.

AVM's approach is to collaborative with the application development team to identify and assess how the application handles various security domains. These security domains consist of credential management, access provisioning, authentication and authorization, access governance, application security, supporting infrastructure security, data security, and security monitoring.

Secure Development Training

The purpose of the Secure Development Training is to increase security knowledge amongst personnel in software development by providing guidance on security topics relevant to individual job functions.

AVM's Secure Development training offers an interactive 1 or 2-day course/hands-on workshops that provides developers with the training needed to write highly secure applications and web services.

AVM Consulting Services Offering

- Application Penetration Testing
- Dynamic Application Security Testing (DAST)
- DevSecOps Implementation
- Static Application Security Testing (SAST)
- Application Security Architecture Reviews
- Secure Development Training