

Application Security Operations Center (ASOC)

Overview

Saltworks takes a holistic approach to application security, working with our customers to integrate appropriate security measures into the Software Development Lifecycle (SDLC) to ensure that applications are secure and delivered on time and within budget. The need to integrate application security into the SDLC is even more important with the shift to Agile and DevOps approaches to development and delivery. If security isn't fully integrated security will slip or time lines will be missed.

Saltworks takes a three-step approach to integrating security into the SDLC. This approach helps our customers to plan a clear path forward, implement the technologies and processes to support the plan and operate the program on an ongoing basis. The Saltworks approach includes:

- **Program Design:** Creating a plan to integrate security into the SDLC and release process
- **Solution Implementation:** Putting the necessary technologies in place to support the road forward.
- **Application Security Operations Center (ASOC):** Running the program on an ongoing basis by working with development and operations teams to ensure appropriate security is maintained over time.

Program Design

The goal of Program Design is to clearly articulate what is required from a security perspective for an application to go into production. This can include architectural guidelines, code standards, testing requirements and any other activity that is necessary to ensure that applications are developed in reasonably secure manner. The program design must balance the needs of security, business agility and cost to provide a clear path to releasing software on time and in compliance with corporate standards.

Program Design includes:

- **Policy Creation** – A policy defines the standards which must be met by applications prior to being released or to continue in production over time.
- **Integration Planning** – A great policy will fail unless it is fully integrated into the software development life cycle (SDLC) using approaches such as Agile, DevOps or Waterfall.
- **Encryption Requirements** – Appropriate encryption technologies can reduce the inherent risk of data that is stored in systems and should be thoughtfully incorporated into the design.
- **SecureMail Requirements** – For systems that will be sending email with confidential information, an appropriate Secure Mail approach will need to be designed and implemented.

Solution Implementation

Once an Application Security Program has been designed, the appropriate technologies that support the program must be implemented. Saltworks provides services to assist in this process, including:

- Solution selection and sizing
- Procurement
- Deployment
- Administrator training
- Developer training
- SDLC integration, including build server and defect tracking integration

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The right plan and the right solutions are a great start but without an effective operationalizing of the program nothing will be achieved. Saltworks works with customers to provide operational services that include both mentoring your employees to run the program and staffing the ASOC to ensure a successful application security program.

ASOC services include:

Program Implementation

- Integrating ASOC with development teams
- Working with Agile teams to ensure policy requirements are part of the appropriate sprints / development iterations
- Generating Threat Models, including training developers to either create Threat Models and/or assist in their creation.
- Ensuring proper assessments (scans) are being integrated and executed
- Working with developers to ensure proper remediation is being completed
- Working with DevOps teams to ensure automated security testing is being completed successfully
- Scheduling Penetration Testing to ensure policy and compliance requirements are being met

Tracking & Metrics

- Providing executive level reporting to ensure program success is communicated
- Tracking program roll-out completion
- Reporting vulnerability metrics to management

Reporting and Auditing

- Providing reporting to audit and compliance teams
- Working with Audit teams to ensure audits can be performed quickly and efficiently

For more information visit <http://saltworks.io> or email us at ContactUs@saltworks.io