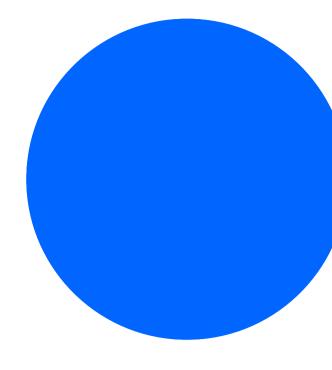


# Building a secure Future

**Deploying Secure Software** Development Life Cycle







# What is SSDLC?

SSDLC (Secure Software Development Life Cycle) is a software development approach that integrates vulnerability identification and mitigation throughout the process. It aims to optimize workflows through specific activities, allowing teams to reduce risks and create more resilient applications in the face of constantly evolving threats.

Unlike SDLC, which structures and controls the development process, SSDLC follows the same phases, but with security activities integrated into each one.

# What are the phases of the SSDLC implementation?

#### **Planning and Analysis** Identification and assessment of security risks,

through the creation of a threat model and the selection of security requirements.

### **Implementation**

to identify and correct vulnerabilities during development.

Following secure coding guidelines, using analysis tools

### **Maintenance**

Continuous monitoring of software in production, periodic penetration testing, and execution of incident response plans to manage emerging risks.

Integration of safety measures into the design, as well as security testing for each phase.

#### Performing static and dynamic security testing to secure

**Testing** 

**Design** 

the software prior to deployment and establishing Security Gates.



# What are the reasons for implementing SSDLC?

In contrast, **SSDLC** mitigates risks by integrating vulnerability

reactive approach, which only adds testing at the end.

Security breaches in traditional SDLC are severe due to its

scanning, insecure configurations, and third-party dependencies during development.



#### significantly reduces critical vulnerabilities from the earliest stages.



**Improved Efficiency** 

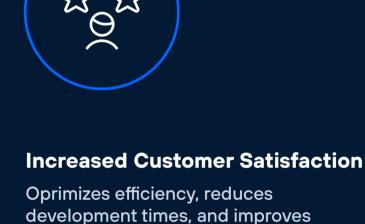
software deployment.

Proactive security measures

significantly reduce incidents after



## management and risk mitigation costs.



software quality.



#### **Continuous Training Early Integration** It is essential to incorporate security from the early Investing in continuous training of developers is crucial to stages of development to ensure its effectiveness. keep them up to date on security.

What do we bring to SSDLC

development in your company?

**Test Automation Interdepartmental Collaboration** Security test automation, such as SAST, Cooperation between development, security, and

The implementation of **SSDLC** throughout the entire process phase has taught us that:

# mitigate risks.

Benefits of adopting SSDLC in your company

SCA, and DAST, is key to efficiently identify and

operations teams is critical to the success of SSDLC,

giving birth to the figure of **DevSecOps**.

### **Threat Planning and Modeling** Local in the planning and identification of threats to define security requirements. **Staff Training**

Allocation of resources to the continuous training of developers

Implementation of SAST, SCA and DAST tools for vulnerability

Establishment of constant monitoring and periodic reviews to maintain

Performing a security risk analysis at the beginning of the project.



software security in the face of new threats.

**Use of Security Tools** 

and teams involved in the development.

**Initial Risk Assessment** 

# **Summary**



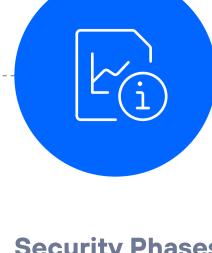
# **Security approach**

software without prioritizing

security, while the SSDLC

integrates it from the start.

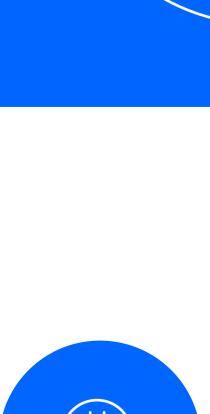
The SDLC focuses on delivering



**Security Phases** The **SSDLC** incorporates security in each development phase (Threat Modeling, Static **Application Security Testing** (SAST), Software Composition Analysis (SCA), Dynamic **Application Security Testing** 

(DAST), Hardening) while the

SDLC does not.



# **Vulnerability**

**Prevention SSDLC** detects and mitigates vulnerabilities during the process, not only after

development is complete.



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