Tools, Terms & Technologies

Virtualization : VirtualBox

•OS: Ubuntu 16.04

Version Control: Github

•CI/CD tool: Jenkins

•SAST: Snyk

•DAST: OWASP-ZAP

•DevOps tool : docker

•SSH tool: putty

















Tools & Technologies Used

- Container Security: Aqua micro scanner
- Docker repository : Dockerhub
- Security/Quality control tools : Sonarqube
- Application : Multiplayer-snake open source project source code
- DNS Registration FREE (https://my.freenom.com)







Terms

- CI/CD : Continuous Integration / Continuous Deployment or Delivery
- SAST: Static Application Security Testing (white box testing)
- DAST: Dynamic Application Security Testing(black box testing)
- IAST: Interactive Application Security Testing
- RASP: Run-time Application Security Protecting

Definition

- SAST: This is to analyze the source code early in sdlc. It ensures best coding practices & guidelines are followed. eg.
 Weak random no. generation in source code or vulnerable thrid party library
- DAST: Analyze and find vulnerabilities/threats in a running web application based on request & response model. eg. SQL Injection, CSS (Cross Side Scripting)

Definition Cont..

- IAST: Designed to address shortcomings of SAST or DAST
- It places agent within an application and performs real-time analysis
- RASP: More kind of security tool rather than testing tool. It is also plugged into application and does continuous security checks.
- Responds by terminating attackers session and alerts defenders to the attack

DAST Method

