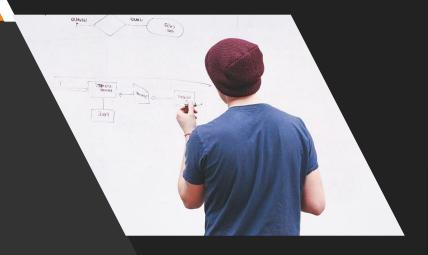
DevSecOpsSG Workshop



Jenkins Introduction



HELLO!

Sreenivasulu Reddy YC

Security enthusiast, Application Developer

@SreeniYC
In/SreeniYC

What's covered?

- Basics of Jenkins
- Free style Job
- Pipeline Jobs

- Continuous Integration
- Continuous Delivery
- Security, UI Plugins

Prep work

- Install JDK
- Install Mayen
- Download Jenkins.war (based on OS) file from https://jenkins.io/
- Checkout Repository
 <a href="https://github.com/WebGoat/WebGoa

Jenkins Introduction

Jenkins Introduction





Hudson



Jenkins



by Kohsuke Kawaguchi - 2004 Released - Feb 2005 Birth of Jenkins Feb 2011 Jenkins Version 2 Apr 2016

Starting Jenkins

java -jar jenkins.war --httpPort=8080

P Jenkins with Docker



docker pull jenkins

docker run -d -p 49001:8080 -v \$PWD/jenkins:/var/jenkins_home -t jenkins

What's the plan?









Build Test Package Security Notifications Scanning



Free Style Job

Configuring Git Repo

Configure -> Source Code Management

Repository URL: Https://github.com/<your repo>/WebGoat.git

Branch: */develop



Compile, Test, Package source code

Configure -> Build -> Invoke Top-level Maven Targets Goals: compile test package



Archive Artifacts

Configure -> Post-build Actions -> Archive the artifacts
Files to archive: webgoat-container/target/webgoat-container-7.1-SNAPSHOT.war

Cleanup

Configure -> General -> Discard old builds

Few more to Continuous Integration

Automate Triggers

Configure -> Build Triggers

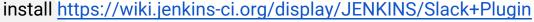
Poll SCM: Check Schedule: H/2 * * * *

Test Reports

Configure -> Post-build Actions -> webgoat-container/target/surefire-reports/TEST*.xml

🗠 Slack Notifications 🗱



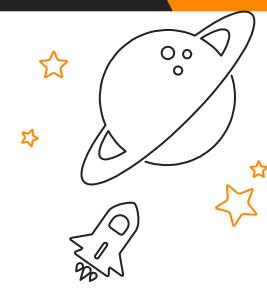


Manage Jenkins -> Configure system

Team subdomain: devsecopssg

Integration Token: 2GxawZV39JrnvqYqHdOFyKur (Tokengenerated by Slack admins)

Channel: #github-jenkins



Pipeline Job

- Configuring Git Repo
- Compile, Test, Package
- Archive Artifacts
- Cleanup
- Approvals





https://github.com/DevSecOpsSG/Jenkins-Workshop

Security and other Plugins

COWASP Dependency-Check

Install plugin
Configure -> Add build step

Path to scan: webgoat-container/target/*.war

SonarQube

Setup instructions

Blue Ocean Ul



Your machine Hacked !!!

Clean webgoat instance



THANKS!

Any questions?
join our slack channel
http://devsecopssg.herokuapp.com/
or
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