Container Security : ANCHORE

- Anchore allows us to perform detailed analysis on container images, run queries , produce reports. Also we can define our own policies that can be used with ci/cd pipelines.

Anchore Setup:

- Download the setup from below github link
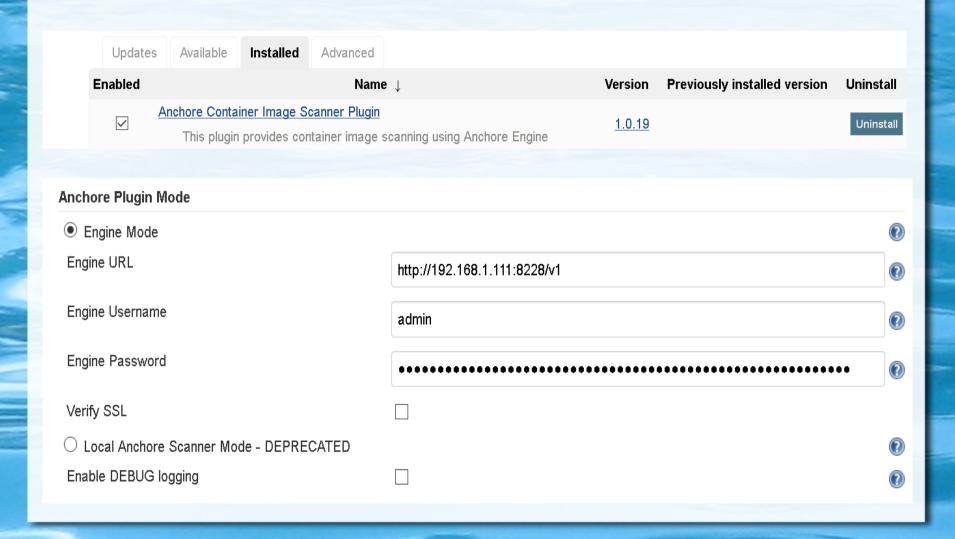
  https://github.com/trainmefordevsecops/ANCHORE-SECURITY.git

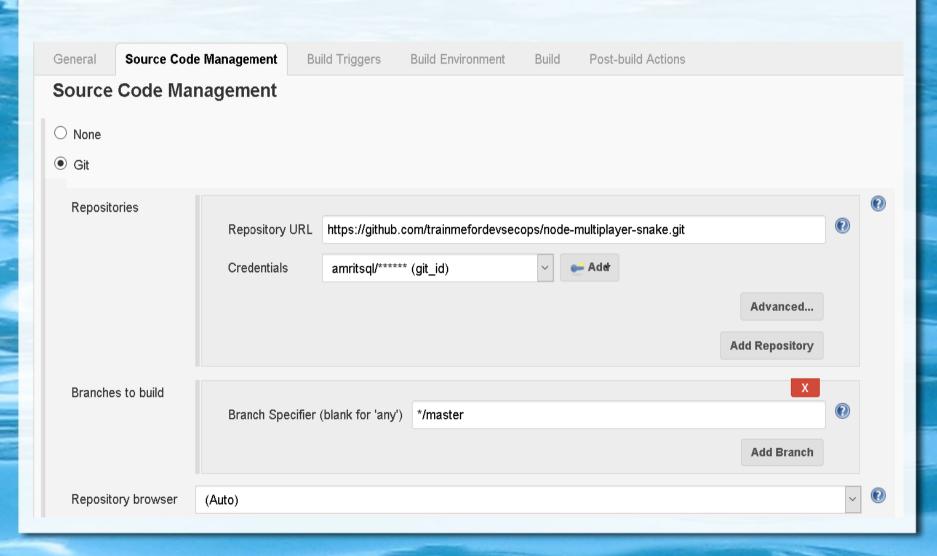 run the docker-compose for making both container (anchore & postgres) up & running.

  cd /home/jenkins/ANCHORE-SECURITY/anchorevolume

- docker-compose up -d

- Install Jenkin pluggin "Anchore Container Image Scanner".

Jenkins Configuration

Updates	Available	**Installed**	Advanced

Enabled	Name ↓	Version	Previously installed version	Uninstall
☑	Anchore Container Image Scanner Plugin This plugin provides container image scanning using Anchore Engine	1.0.19		Uninstall

Anchore Plugin Mode

◉ Engine Mode   ❓

Engine URL   http://192.168.1.111:8228/v1   ❓

Engine Username   admin   ❓

Engine Password   ●●   ❓

Verify SSL   ☐

○ Local Anchore Scanner Mode - DEPRECATED   ❓

Enable DEBUG logging   ☐   ❓

Jenkins Configuration

General	**Source Code Management**	Build Triggers	Build Environment	Build	Post-build Actions

Source Code Management

○ None

◉ Git

Repositories

Repository URL `https://github.com/trainmefordevsecops/node-multiplayer-snake.git`

Credentials `amritsql/****** (git_id)` ▾ 📋 Add

Advanced...

Add Repository

Branches to build X

Branch Specifier (blank for 'any') `*/master`

Add Branch

Repository browser `(Auto)` ▾

Jenkins Configuration

Build

Execute shell   [X]

Command
```
echo "amrit96/snake:latest" ${WORKSPACE}/Dockerfile > anchore_images
```

See the list of available environment variables

Advanced...

Anchore Build Options

Image list file	anchore_images
Fail build on policy evaluation FAIL result	☑
Fail build on critical plugin error	☑
Anchore Engine operation retries	500
Anchore Engine policy bundle ID	
Anchore Engine image annotations	Add annotation
Anchore Engine auto-subscribe tag updates	☑
Anchore Engine force image analysis	☐

Results Dashboard

Results Dashboard

Anchore Policy Evaluation Report

Show [10 ⌄] entries

Search: [   ]

Image Id	Repo Tag	Trigger Id	Gate	Trigger	Check Output	Gate Action	Whitelisted	Policy Id
793af384d3 0c20f40931 b558a1a50 5c912e73f0 b76a6917c b6348724b 81625a5	docker.io/ amrit96/s nake:late st	41cb7cdf04 850e33a11f 80c42bf660 b3	dockerfile	instruction	Dockerfile directive 'HEALTHCHECK' not found, matching condition 'not_exists' check	WARN	false	48e6f7d6-1765-11e8-b5f9-8b6f228548b6

Showing 1 to 1 of 1 entries

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