

DevSecOps with GitLab

Duration: 2 days (8hrs/day)

Prerequisites: Good to have knowledge of Git

Course Objective: The objective of this training is to empower participants with comprehensive knowledge and practical skills in utilizing DevSecOps with GitLab.

Lab Requirement: Koenig-DC + GitLab customer Account

Module 1 – Deep Dive into DevSecOps

Basic Security Terms – If new to security field

What is DevSecOps

Tools used for DevSecOps Implementation in the market

DevSecOps in GitLab Theory

Module 2 – Implementing DevSecOps Pipeline in GitLab

Create GitLab Free Tier Account

Import Vulnerable source code report in GitLab from GitHub account

Create master branch and make it default for the source code report in GitLab

Write a simple .gitlab-ci.yml file and print text using GitLab shared runner

Module 3 – Implement SAST in GitLab DevSecOps Pipeline using SonarCloud

What is SonarCloud and it's benefits?

Create an account with SonarCloud before implementing SAST in DevSecOps pipeline

Hands On: Integrate SonarCloud within GitLab DevSecOps pipeline

Hands- On: Create Quality Gates in DevSecOps pipeline

Hands-On: Populate Unit Test Code Coverage on SonarCloud Dashboard for DevSecOps

Module 4 – Implement SCA in GitLab DevSecOps Pipeline using Snyk

What is Snyk and it's benefits

Create an account with Snyk before implementing SCA in DevSecOps Pipeline

Hands-On: Integrate Snyk within GitLab DevSecOps pipeline to perform SCA

Module 5 – Implement DAST in GitLab DevSecOps Pipeline using OWASP ZAP

What is OWASP ZAP and its benefits

Hands-On: Integrate OWASP ZAP within GitLab DevSecOps Pipeline to perform DAST

Module 6 – End to End Java Project Case Study for Implementing GitLab DevSecOps Pipeline

Case Study: Understanding Project Requirements before workflow implementation

Hands On: Write code changes to integrate SAST, SCA & DAST in DevSecOps Pipeline

Module 7 – Report Security Issues Found During SAST, SCA & DAST Scans in Jira

Hands On: Create a Jira account with Atlassian with Custom Jira site

Hands On: Report SAST security issues in Jira identified by SonarCloud

Hands On: Report SCA security issues in Jira identified by Snyk

Hands On: Report DAST security issues in Jira identified by OWASP ZAP

Hands On: Integrate Jira with SonarCloud to create tickets with one-click