

## Session I

### The following topics are covered in Session I

- Introduction to DevOps
- Need of DevOps
- Continuous Integration and Continuous Delivery
- DevOps stages
  - Plan
  - Code
  - Build
  - Test
  - Deployment
  - Monitoring
- CI/CD Platforms
- DevOps Pipeline examples
- Pipeline as Code

2:56:31

### List of labs covered during the session (and homework):

- Django WebApp (<https://attackdefense.com/challengedetails?cid=2039>)
- Git: Learn Basics with Git CLI (<https://attackdefense.com/challengedetails?cid=2022>)
- Git: Learn Basics with Git Cola (<https://attackdefense.com/challengedetails?cid=2035>)
- Build: Java Webapp (<https://attackdefense.com/challengedetails?cid=2037>)
- Build: Django Webapp (<https://attackdefense.com/challengedetails?cid=2036>)
- Build: Nginx Software (<https://attackdefense.com/challengedetails?cid=2038>)
- Test: Pytes (<https://attackdefense.com/challengedetails?cid=2260>)
- Test: JUnit (<https://attackdefense.com/challengedetails?cid=2259>)
- Selenium: Basic Automation with Plugin (<https://attackdefense.com/challengedetails?cid=2342>)
- Selenium: Scripting Interaction (<https://attackdefense.com/challengedetails?cid=2343>)
- Selenium: Scripting Dictionary Attacks (<https://attackdefense.com/challengedetails?cid=2344>)
- Ansible: Deploying Apache and MySQL (<https://attackdefense.com/challengedetails?cid=2042>)
- Ansible: Deploying Tomcat (<https://attackdefense.com/challengedetails?cid=2043>)
- Jenkins: Java Webapp (<https://attackdefense.com/challengedetails?cid=2040>)
- Jenkins: Django Webapp (<https://attackdefense.com/challengedetails?cid=2039>)
- Jenkins: Nginx Software (<https://attackdefense.com/challengedetails?cid=2041>)
- DevOps Pipeline: Java WebApp (<https://attackdefense.com/challengedetails?cid=2064>)
- DevOps Pipeline: Nginx (<https://attackdefense.com/challengedetails?cid=2070>)
- DevOps Pipeline as Code: Java WebApp (<https://attackdefense.com/challengedetails?cid=2065>)
- DevOps Pipeline as Code: Django WebApp (<https://attackdefense.com/challengedetails?cid=2068>)

## Session II

### The following topics are covered in Session II

- Introduction to DevSecOps

- Threat Modelling
- Automated Code Review
- Sensitive information Scan
- Static Application Security Testing
- Dynamic Application Security Testing
- DevSecOps Pipelines
- DevSecOps Pipeline as Code
- Fix the Code Pipeline labs

2:30:39

#### List of labs covered during the session (and homework):

- PMD: Finding Common Vulnerabilities ( <https://attackdefense.com/challengedetails?cid=2049>)
- DevSkim: Code Security Review (<https://attackdefense.com/challengedetails?cid=2048> )
- FindSecBugs: Securing Java Applications (<https://attackdefense.com/challengedetails?cid=2050> )
- TruffleHog: Locating Sensitive Information (<https://attackdefense.com/challengedetails?cid=2044>)
- GitSecrets: Finding Hardcoded Credentials (<https://attackdefense.com/challengedetails?cid=2047>)
- Talisman: Pre-Commit Code Scanning (<https://attackdefense.com/challengedetails?cid=2046>)
- Pre-commit: Scanning source code for Sensitive Information (<https://attackdefense.com/challengedetails?cid=2266>)
- Flawfinder: Statically Scanning C code (<https://attackdefense.com/challengedetails?cid=2045>)
- Graidit: Hunting Sensitive Information (<https://attackdefense.com/challengedetails?cid=2051>)
- Bandit: Scanning Python Code for Issues (<https://attackdefense.com/challengedetails?cid=2053>)
- Spotbugs: Finding Bugs in Java Code (<https://attackdefense.com/challengedetails?cid=2054>)
- SonarQube: Continuous Code Quality Monitoring (<https://attackdefense.com/challengedetails?cid=2052>)
- OWASP ZAP: Detecting Vulnerabilities in WebApps (<https://attackdefense.com/challengedetails?cid=2055>)
- BDD Security: Behaviour Driven Development (<https://attackdefense.com/challengedetails?cid=2063>)
- Arachini: Automated Vulnerability Scanning (<https://attackdefense.com/challengedetails?cid=2056>)
- Nikto: Automatic WebApp Scanning (<https://attackdefense.com/challengedetails?cid=2057>)
- Radamsa: Automated Fuzzing (<https://attackdefense.com/challengedetails?cid=2058>)
- FuzzDB: Fault Injection Testing (<https://attackdefense.com/challengedetails?cid=2059>)
- DevSecOps Pipeline: Java Webapp (<https://attackdefense.com/challengedetails?cid=2066>)
- DevSecOps Pipeline as Code: Django WebApp (<https://attackdefense.com/challengedetails?cid=2069>)
- DevOps Pipeline as Code: Java WebApp (<https://attackdefense.com/challengedetails?cid=2065>)
- DevSecOps Pipeline: Nginx Software (<https://attackdefense.com/challengedetails?cid=2261>)
- Fix the App: Django WebApp (<https://attackdefense.com/challengedetails?cid=2174>)
- Fix the App: Django WebApp II (<https://attackdefense.com/challengedetails?cid=2273>)
- Fix the App: Java WebApp (<https://attackdefense.com/challengedetails?cid=353>)

#### Session III

#### The following topics are covered in Session III

- DevSecOps stages
  - Source Component Analysis

- GitHub Actions
- Pipeline using GitHub Actions
- Integrating Security into Pipeline

2:40:56

#### List of labs covered during the session (and homework):

- OSSAudit: Auditing Python Packages (<https://attackdefense.com/challengedetails?cid=2060>)
- OWASP Dependency-Check (<https://attackdefense.com/challengedetails?cid=2062>)
- Inspec: Automating Compliance Checks (<https://attackdefense.com/challengedetails?cid=2071>)
- ServerSpec: Automating Configuration Tests (<https://attackdefense.com/challengedetails?cid=2072>)
- Dockerfile Linter (<https://attackdefense.com/challengedetails?cid=2161>)
- Dockerfilelint (<https://attackdefense.com/challengedetails?cid=2161>)
- Dockerlint (<https://attackdefense.com/challengedetails?cid=2163>)
- Hadolint (<https://attackdefense.com/challengedetails?cid=2164>)
- Docker Bench Security (<https://attackdefense.com/challengedetails?cid=1607>)
- Dockscan (<https://attackdefense.com/challengedetails?cid=1608>)
- Amicontained (<https://attackdefense.com/challengedetails?cid=1609>)
- Clair (<https://attackdefense.com/challengedetails?cid=1620>)
- Hashicorp Vault: Basics (<https://attackdefense.com/challengedetails?cid=2358>)
- Vault: Interacting with Python (<https://attackdefense.com/challengedetails?cid=2359>)
- Vault: OTP Based SSH Access (<https://attackdefense.com/challengedetails?cid=2360>)
- Archery: Vulnerability Management Framework (<https://attackdefense.com/challengedetails?cid=2256>)
- Defect Dojo: Managing Vulnerabilities (<https://attackdefense.com/challengedetails?cid=2272>)

#### Example Code Repos:

- Template repo: <https://github.com/reachnishant/demorepo>
- GitHub Actions Example I: <https://github.com/reachnishant/test1>
- GitHub Actions Example II: <https://github.com/reachnishant/test2>

#### Session IV

##### The following topics are covered in Session IV

- GitLab CI/CD Basics
- Components
- GitLab Runners
- Secret Management
- Implementing Pipeline using GitLab CI
- Integrating security tools

2:09:33

**Example Code Repos:**

- Template repo: <https://gitlab.com/reachnishantsharma/demorepo>
- GitLab CI/CD Example I: <https://gitlab.com/reachnishantsharma/test-1>
- GitLab CI/CD Example II: <https://gitlab.com/reachnishantsharma/test-2>
- GitLab CI/CD Example III: <https://gitlab.com/reachnishantsharma/test-3>

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