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### Course Goals and Non Goals

- Course Goals
  - At the end of this program, participants will gain an understanding of:
    - DevOps Ecosystem
    - Automatic Source Code Management using GIT and Continuous Integration using Jenkins
    - · Quality monitoring using Sonar

### Course Non Goals

- This program does not attempt:
  - To demonstrate Continuous Deployment and Continuous Monitoring tools like puppet, CHEF and Nagios





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### Pre-requisites

- List the Course Pre-requisites
  - Text Basic understanding of system concepts
  - Familiarity with Command Line Interface(CLI)
  - · Familiarity with a Text Editor
  - Experience with managing systems/applications/infrastructure or with deployments/automation
  - IT experience



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### Intended Audience

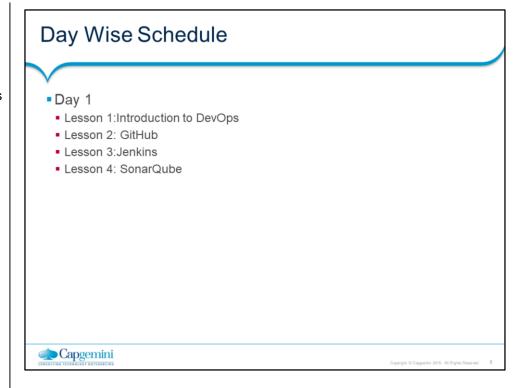
- This course is suitable for
  - System Administrators
  - Developers
  - IT Managers
  - IT Operations team members who want to learn more about DevOps.





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### **Table of Contents**

- Lesson 1: Introduction to DevOps
  - 1.1. What is DevOps
  - 1.2. Evolution of DevOps
  - 1.4. Agile Methodology
  - 1.5. Why DevOps
  - 1.6. Agile vs DevOps
  - 1.7. DevOps Principles
  - 1.8. DevOps Lifecycle
  - 1.9. DevOps Tools
  - 1.10. Benefits of DevOps
  - 1.11. Continuous Integration and Delivery pipeline
  - 1.12. Use-case walkthrough



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# Table of Contents Lesson 2: GitHub 2.1: Introduction to Git 2.2: Version control 2.3: Repositories and Branches 2.4: Working Locally with GIT

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- 2.5: Working Remotely with GIT
- Lesson 03:Jenkins
  - 3.1: Introduction to CI
  - 3.2: Jenkins Introduction
  - 3.3: Creating Job in Jenkins
  - 3.4: Adding plugin in Jenkins
  - 3.5: Creating Job with Maven & Git
- Lesson 04:Sonar(SonarQube)
  - 4.1: introduction of Sonar
  - 4.2: Analyzing Java code with Sonar
  - 4.3: Integrating Jenkin with Sonar
  - 4.4: Analyzing Maven code ,Jenkin with Sonar



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### References

- http://www.bogotobogo.com/DevOps/DevOps\_CI\_CD\_Pipeline\_Sample.php
- https://dzone.com/articles/an-example-of-a-continuous-integration-delivery-pi
- https://www.edureka.co/blog/devops-tutorial?utm\_source=blog&utm\_medium=lefmenu&utm\_term=DevOps%20Tutorial%20:%20Introduction%20To%20DevOps
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