





G H Patel College of Engineering & Technology
(The Charutar Vidya Mandal (CVM) University)
Vallabh Vidyanagar
Department of Information Technology
&
Department of Computer Engineering

Event Report on

"Session on CI/CD Deployment Using Github, Jenkins, Docker & EC2"

- **Date:** 9th April, 2025
- **Time:** 2:00 PM Onwards
- **Institute:** G H Patel College of Engineering & Technology.
- **Mode of Conduct & Venue:** Offline at GCET Auditorium.
- **Faculty Coordinator:** Dr. Hetal Chudasama, Dr. Zubin Bhaidasna and Prof. Rashmika Baria



**G H Patel College of Engineering & Technology
(The Charutar Vidya Mandal (CVM) University)
Department of Information Technology & Department
of Computer Engineering Jointly
Organizes**


**Session on "CI/CD Deployment Using
GitHub, Jenkins, Docker & EC2"**




Mr. Nirav Desai
Analyst Engineer
CloudThat Technologies

Coordinators:

1. Dr. Hetal Chudasama,
Assoc. Prof. IT Dept.
2. Dr. Zubin Bhaidasna,
Asst. Prof. CP Dept.
3. Prof. Rashmika Baria,
Asst. Prof. CP Dept.



Wednesday, 9th April' 2025



GCET Auditorium



02:00 Pm onwards

Introduction:

To foster industry-relevant technical skills among engineering students, the Department of Information Technology and Department of Computer Engineering at G H Patel College of Engineering & Technology (GCET), affiliated with The Charutar Vidya Mandal (CVM) University, jointly organized a technical expert session on **CI/CD Deployment Using GitHub, Jenkins, Docker & EC2**.

The session was part of the institution's initiative to introduce students to modern software development practices, particularly DevOps and automation in software deployment. With the increasing demand for DevOps professionals, the session aimed to bridge the academic-industry gap and prepare students for future roles in software engineering, system administration, and cloud computing

- The primary aim of the session was to introduce students to the **CI/CD pipeline**, a crucial component of modern DevOps methodology. The specific objectives included:
- **Understanding CI/CD Fundamentals:** Educating students on what Continuous Integration and Continuous Deployment entail and how they streamline the software development lifecycle.
- **Hands-on with GitHub and Jenkins:** Demonstrating how to integrate GitHub repositories with Jenkins pipelines to automate the build and test processes.
- **Exploring Docker for Containerization:** Showcasing the use of Docker to package applications and their dependencies into portable containers.
- **Deployment on AWS EC2:** Teaching students how to deploy applications to a cloud infrastructure using Amazon EC2 instances for scalable and flexible computing.
- **Promoting Best Practices in DevOps:** Highlighting standard industry practices for secure, efficient, and automated deployments.

By the end of the session, the students were expected to have a clear roadmap of how to implement a basic CI/CD pipeline and the relevance of each tool in the workflow.

Outcome:

The expert session proved to be extremely valuable for the participating students. The key takeaways and outcomes included:

- **Enhanced Technical Knowledge:** Students gained clarity on how modern software teams manage builds, tests, and deployments using automation tools.
- **Practical Exposure:** Through live examples, they experienced real-world application of GitHub, Jenkins, Docker, and EC2.
- **Hands-on Learning:** Students were walked through setting up a Jenkins pipeline, integrating it with GitHub, creating Docker containers, and deploying applications on EC2.



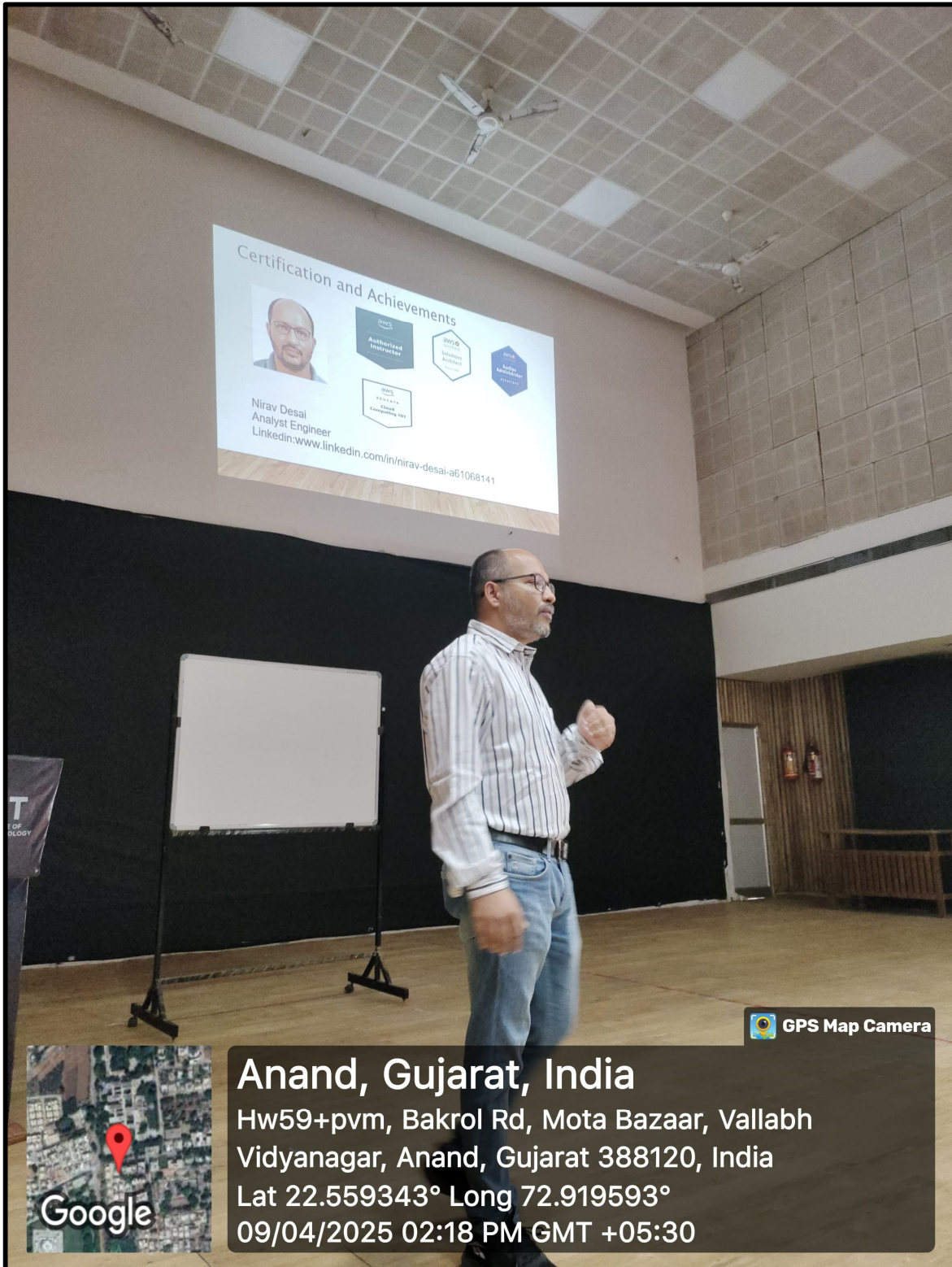
- **Career Readiness:** The session added significant value to students' skill sets, making them better prepared for internships, industrial projects, and career opportunities in the DevOps and cloud computing domains.
- **Inspiration for Self-Learning:** It sparked interest among students to explore DevOps tools further and experiment with their own CI/CD projects.

No. of. Participants: 150+ Students from different departments of engineering participated.

Event details:

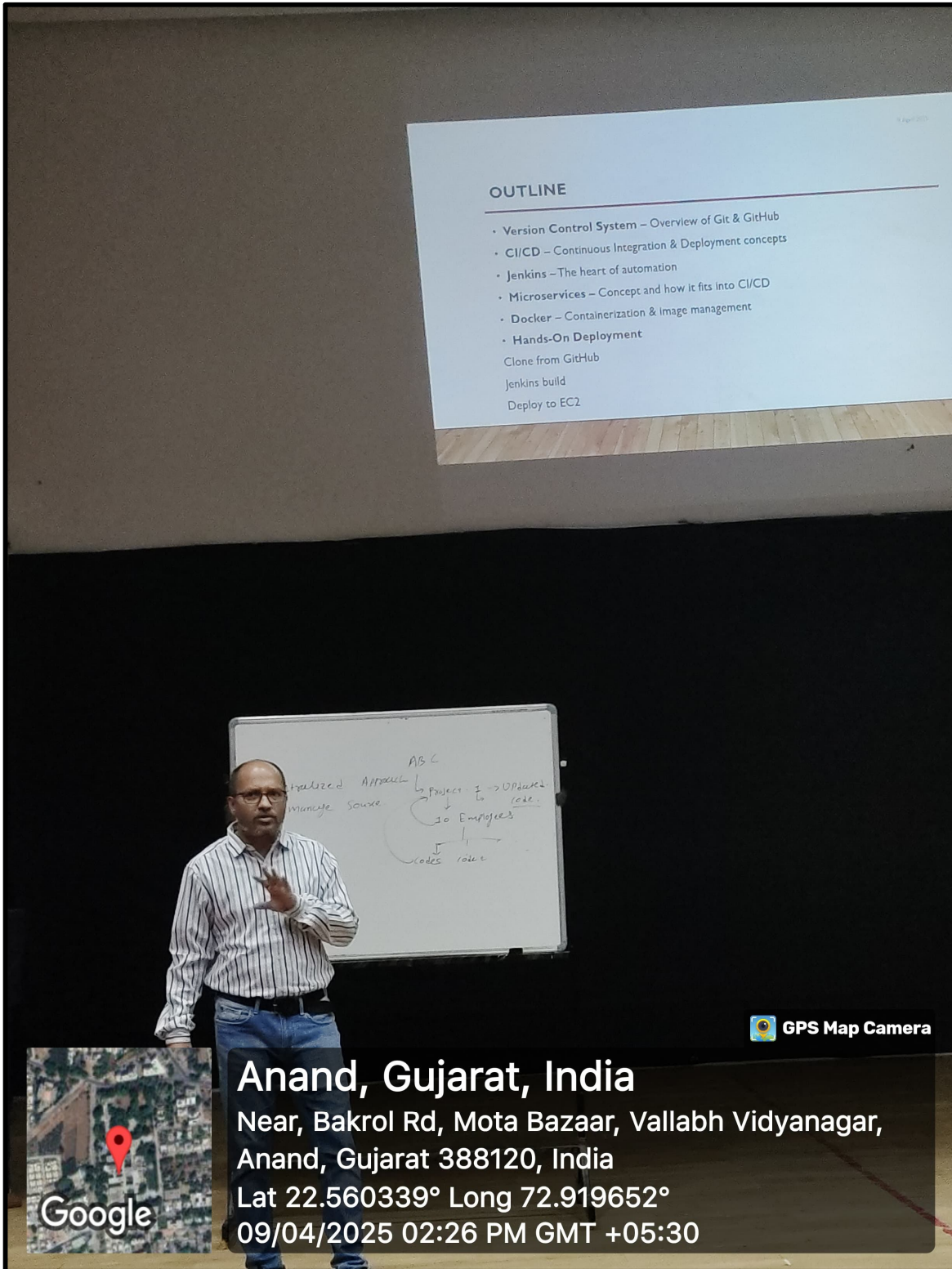
The session was held on Wednesday, 9th April 2025, at 02:00 PM in the GCET Auditorium. It was conducted by Mr. Nirav Desai, Analyst Engineer at CloudThat Technologies, and witnessed active participation from engineering students. The session featured practical demonstrations and insightful discussions on CI/CD tools, making it highly informative and engaging for all attendees.

Glimpses of the Event:









OUTLINE

- Version Control System – Overview of Git & GitHub
- CI/CD – Continuous Integration & Deployment concepts
- Jenkins – The heart of automation
- Microservices – Concept and how it fits into CI/CD
- Docker – Containerization & Image management
- Hands-On Deployment

Clone from GitHub
Jenkins build
Deploy to EC2

Handwritten notes on whiteboard:
ABC
Specialized Approach
manage source
Project → Updated code
→ Employees
codes roles

GPS Map Camera

Anand, Gujarat, India
Near, Bakrol Rd, Mota Bazaar, Vallabh Vidyanagar,
Anand, Gujarat 388120, India
Lat 22.560339° Long 72.919652°
09/04/2025 02:26 PM GMT +05:30

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