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A Report on Workshop on "One-day DevOps Journey on Cloud AWS" Organized by Department of Computer Applications on 21.11.2025

Report Submitted by: Dr. N. Nirmala Devi, Assistant Professor, Department of Computer Applications.
Resource Person Details: Clyton George Paul A, Corporate IT-Trainer, Wingz Technologies, Chennai.
Date and Time: 21-Nov-2025(10.00 AM to 5.00 PM) (FRIDAY).
Venue: Seminar Hall - B
Participants: I-MCA 121 students and 12 faculty members.
Duration: 6 Hours.
Mode of Conduct: Offline

1. Introduction

The Department of MCA, MITS–Deemed to be University, organized Workshop on "A One-day DevOps Journey on Cloud AWS" for the I-Year PG students of the academic year 2025–26, held on 21-Nov-2025 at Seminar Hall – B.

The workshop commenced with a welcome speech given by **Dr. C. Sivaraj**, as Associate Professor in the MCA department, who highlighted the significance of Cloud AWS and DevOps. Following this, **Dr. N. Nirmala Devi**, an Assistant Professor in the MCA department, formally introduced the resource person, Clyton George Paul. Subsequently, **Dr. P. Ramanathan**, Principal of MITS, delivered the Presidential Address, emphasizing the workshop's importance. The session was then handed over to Mr. Paul.

The primary objective of the workshop was to enlighten students, taking them from beginners to a functional understanding of core DevOps principles. This was achieved by implementing a complete CI/CD pipeline on Amazon Web Services (AWS), utilizing services such as Amazon EC2, S3, Simple Notification Service, AWS CloudWatch, and AWS Beanstalk. The workshop blended theory with hands-on training, allowing attendees to experience the automation of building, testing, and deploying code first-hand.

2. Objectives

The primary goal of the workshop was to equip participants with the foundational skills and practical knowledge to implement basic DevOps practices using AWS services. The specific objectives were:

- To Understand Core DevOps Principles
- To Gain Familiarity with Essential AWS Services
- To Implement a Complete CI/CD Pipeline
- To Introduce Infrastructure as Code (IaC)
- To Foster Hands-on Competence

3. Outcomes & Key Learnings

The workshop was highly successful, with active participation and engagement from all attendees. The outcomes demonstrated a significant achievement of the set objectives.

3.1. Theoretical Understanding:

Participants concluded the workshop with a clear understanding of:

- The **"Three Ways" of DevOps** (Flow, Feedback, Continuous Learning).
- The critical difference between **CI (Continuous Integration)** and **CD (Continuous Deployment/Delivery)**.
- The value of automation in the software development lifecycle for reducing human error and accelerating release cycles.

3.2. Practical, Hands-on Experience:

The core of the workshop involved a step-by-step lab where participants built a functional CI/CD pipeline. The key practical outcomes included:

- AWS Account Setup & IAM Security.
- Source Control with AWS CodeCommit
- Building the Application with AWS CodeBuild.
- Automated Deployment with AWS CodeDeploy
- Orchestrating the Pipeline with AWS CodePipeline

Feedback from participants

- Clear clarity about basics of Cloud, Cloud AWS, Amazon S3, etc.
- Gained ideas on the cloud services
- Importance of cloud and DevOps.

Conclusion

The "One-day DevOps Journey on Cloud AWS" workshop, under the expert guidance of **Mr. Clyton George Paul**, was an impactful and enriching experience. It successfully transformed abstract DevOps concepts into a tangible, practical skill set for all attendees. Participants left not just with theoretical knowledge, but with the confidence to begin exploring and implementing automated CI/CD pipelines in their own projects or organizations, leveraging the scalable and powerful ecosystem of Amazon Web Services. The workshop served as a critical first step in their ongoing DevOps and cloud computing journey.

Valedictory Session:

Presided by **Dr. N. Naveen Kumar**, Professor & HOD of MCA, the session marked the successful conclusion of the program. In his address, he motivated students to strive for academic and professional excellence.