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#### Message from CEO, Learnbay

As Learnbay's CEO, I'm excited to welcome you to an amazing journey in learning. Here at Learnbay, we're all about helping you grow in Cloud Computing & DevOps and more. We think learning can open up endless chances for everyone.

We're not just about the usual school stuff; we're here to support your career in every way possible. What makes Learnbay special is how much we care about your success. I'm inviting you to start a great learning journey with us. Come be a part of Learnbay and see how dedication and passion can really change your path to being the best.

# Message from Principal Investigator, E&ICT Academy IIT Guwahati (Dr. Gaurav Trivedi)

As the principal investigator at E&ICT Academy IIT Guwahati, I'm happy to support and work with Learnbay on their Cloud Computing & DevOps and AI course.

We at E&ICT Academy IIT Guwahati, aim to lead the way in learning and research in Cloud Computing & DevOps and Artificial Intelligence.



I wish you all good luck with your studies at Learnbay and am excited to see how you all do and grow in the interesting areas of Cloud Computing & DevOps and Artificial Intelligence



Designed for IT professionals, system administrators, and DevOps engineers, this program equips you with the expertise to excel and lead in the thriving Cloud and DevOps domain





#### **Real-World Project Experience**

Build end-to-end Cloud and DevOps projects with practical hands-on training.



#### **Certification from IIT Guwahati**

Receive a prestigious completion certificate from E&ICT Academy, IIT Guwahati.



#### **Immersive Experience**

2-day classroom learning at IIT Guwahati.



#### **Full stack Cloud** Mastery

Learn AWS, GCP, and Azure with end-to-end real projects.

#### Program **Summary**



#### **Program Eligibility**

Working professionals having **minimum 1** years of exp.



#### **Training Mode**

**100% Instructor** led Live Online sessions



#### **Program Faculty**

Industry Experts and IIT Professors



#### **Program Duration**

**8 Months** Program Weekday and Weekend Batch



#### **Payment Options**

**No cost EMI**, Interest free loan



#### Certification

Certification from E&ICT, IIT Guwahati

Add-on Certificate Microsoft

#### Exclusive

Master
GenAl Skills
for Cloud and
Devops

#### **GenAl Projects**

Work on GenAl Projects designed for cloud eng

#### **Practical Skills**

Gain hands-on experience in cloud and devops

#### **Dedicated Mentors**

Dedicated projects mentors from industry

#### **Industry Knowledge**

Develop expertise in your specific domain.

**Important Note:** Gain real project experience in Cloud and DevOps under the guidance of industry mentors. Work with a team to implement projects with Generative AI applications.

#### About Course

This program is designed for **IT professionals**, cloud engineers, and DevOps practitioners to advance their skills through **project-based learning** guided by industry mentors.

It integrates **Generative AI** into Cloud and DevOps, covering cloud architecture, automation, CI/CD, and containerization. By the end, you'll be ready to handle **real-world projects** and excel in high-demand roles.

#### **Our Commitment**

Empower tech professionals and developers to excel in **Cloud, DevOps, and Generative** Al by mastering key concepts, practical applications, and tools for effective project management and decision-making.

Additionally, our career support services include interview preparation, resume building, and job placement assistance, ensuring a smooth transition into high-demand roles in Cloud, DevOps, and Generative AI





**82%** 

of professionals are likely to adopt GenAI by 2025, to

- enhance efficiency,
- automating tasks,
- improving decision-making for better project outcomes.

\*By integrating GenAI into our programs, we ensure that our learners are well-prepared to lead and innovate in their respective fields.

**E**Learnbay



# Who is this program for?

A unique program For IT Professionals & Engineers

⊕ www.learnbay.co

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## **Entry** to **Mid** Level Professionals with 1+ Years of Experience

Designed for IT professionals, system administrators, Solution Architects, and Support engineers.





**Important Note:** This program is not for freshers, fresh grads, students.

#### **Program Outcome:** What's in it for you?



#### **Full stack Cloud Mastery for Professionals**

Learn AWS, GCP, and Azure with end-to-end real projects. Mastering these skills helps you to manage, deploy, and scale cloud-based app.



#### Master GenAI Skills for Cloud and Devops

By integrating GenAI into our programs, we ensure that our learners are well-prepared to lead and innovate in their respective fields.



#### Accelerate Your Career Growth

Leverage advanced GenAI knowledge to drive business success, enhancing career prospects and salary growth.

# Why choose Learnbay?

For Executive Certification in Cloud & Devops



#### **IIT-Backed Certification**

Stand out with a prestigious certification from E&ICT Academy, **IIT Guwahati.** 

Get Certified from





#### **Project-Based Learning**

Gain hands-on experience with **real-world cloud & DevOps projects**, preparing you to tackle industry challenges.

Real Projects | Real Experience



#### **Learn from Industry Mentors**

Gain insights from top industry experts in Cloud & Devops. Our mentors bring **real-world experience** to help you master advanced skills.



#### **Personalized Support**

Get tailored guidance with **1:1 doubt-clearing sessions** for a deeper understanding.

#### Others Vs **Learnbay**

#### **C**Learnbay

Training Mode

100% Live
Interactive Online

Support

24/7 Student Support

**Placement** 

100% Placement Assistance

Curriculum

Included in Latest
Curriculum

Faculty

Experienced Industry
Professionals

Real-Time Projects Practice with Live
Projects and Team
Management

#### **OTHERS**

Only recorded class & few live online

Limited SupportHours

Limited PlacementSupport

(X) Often Not Included

Academics and Trainers

Simulated Projects

#### **Get certified**

#### and accelerate your career growth

#### **E&ICT IIT Guwahati**



# Certification from E&ICT Academy, IIT Guwahati

- Executive Certification: Earned in Cloud & Devops from E&ICT, IIT Guwahati.
- Hands-On Experience: Practical learning at IIT Guwahati campus.
- Top Faculty: Learn directly from IIT experts.

#### **Azure Certifications**







**Microsoft Course Completion Certificate** 

#### **Program Fees**

#### Live online classes

- Live online interactive sessions
- ✓ 1:1 online Doubt Session with experts
- Virtual Mock interviews
- Online Capstone projects

#### **Program Fee**

₹ **1,10,000/-** +18% GST

Pay in easy EMIs starting as low as

₹ 7,211/ month

Special Offer: Avail up to 20% Financial Year-End Scholarship if you enroll by March 31st, 2025! (Fees increase from April 1st)

#### **Tools and Modules**





















# Program Curriculum

A unique program For IT Professionals & Engineers

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#### **Cloud Basics and Linux Fundamentals**

**Duration:** 40 Hours

**Outcome of this term:** This term builds foundational Linux and system administration skills, including user management, file permissions, and system monitoring. You'll also gain introductory cloud computing knowledge and learn basic shell scripting for automation.

- Module 1:Linux Basicsand SystemAdministration
- Overview of Linux: History, architecture, and OS comparisons.
- Linux Kernel and Shell: Types of shells and kernel responsibilities.
- Basic Command Usage: Key commands like ls, cd
- File Permissions: Manage access with chmod, chown
- Module 2:
  Practical
  Exercises and
  Assignments
- **User Management**: Add, modify, or delete users with useradd.
- Create and manage groups with groupadd.
- Sudo Configuration: Edit /etc/sudoers to assign privileges.
- System Monitoring: Use tools like top, df
- Module 3: Introduction to Cloud Computing (AWS, Azure, GCP)
- Network Configuration: Set up static IPs and configure interfaces.
- Generate and manage SSH keys with ssh-keygen.
- Shell Scripting Basics: Scripts for automation and tasks.
- Loop Statements: Automate with while and for loops.

#### **Python Programming Essentials**

**Duration: 40 Hours** 

**Outcome of this term:** This term covers Python basics, data structures, advanced concepts, and cloud automation, equipping you with the skills to automate tasks and manage cloud infrastructure effectively.

#### Module 1:

#### Python Basics & Environment Setup

- Variables and Data Types: Int, float, str, bool
- Operators: Arithmetic, logical, and comparison operations.
- Development Environment: Setting up IDEs like
   PyCharm and Jupyter.

#### Module 2:

## **Python Programming Foundations**

- If-Else Statements: Nested if, ternary operators.
- Loops: For, while, break, continue, and else in loops.
- **Defining functions** with def and using return.
- Arguments: Default values, \*args, \*\*kwargs for flexibility.

#### Module 3:

# Data Handling and Structures

- **Lists:** Indexing, slicing, and methods like append(), pop().
- Nested dictionaries, keys(), values(), and get() methods.
- **File Operations:** Reading, writing, and safety using the *with* statement.

#### Module 4:

# Advanced Python Concepts

- List, dictionary, and set comprehensions.
- Lambda Expressions: Inline functions for map(), filter(), and reduce().
- Exception Handling: Debugging with try-except blocks.

#### Module 5:

Python for Cloud and DevOps

- Scripting for Cloud Automation
- Python Libraries for Cloud Management
- Automating Cloud Infrastructure
   Deployment using Python
- Integrating Python with Cloud Monitoring APIs for Log Analysis

#### **AWS Cloud Mastery**

**Duration: 40 Hours** 

**Outcome of this term:** This term provides comprehensive AWS training, covering core services, solution architecting, advanced modules, and certification preparation, equipping you to design, deploy, and manage cloud infrastructure.

#### Module 1:

- **AWS Fundamentals**
- Overview of AWS Services: Key services: EC2,
   S3, RDS, Lambda.
- Secure root accounts with MFA.
- Core AWS Concepts: Regions, availability zones, and global infrastructure.
- Best practices for IAM and security groups.

#### Module 2: AWS Solution Architecting

- EC2: Instance types, AMI selection, & security groups.
- AWS Lambda: Create functions & set triggers
- S3: Manage buckets, object lifecycle, and bucket policies.
- EBS and Glacier: Snapshots, backups & archival strategies.

#### Module 3:

Advanced AWS Modules

- RDS and DynamoDB: Manage backups, multi-AZ, tables, and keys.
- Redshift: Set up clusters, ingest data, and use Spectrum.
- Serverless: Build solutions with Lambda and API Gateway.

#### **Module 4:**

AWS Certifications
Preparation

- Design scalable and fault-tolerant solutions.
- Disaster Recovery: Ensure high availability across regions.
- Migration: Optimize with AWS migration tools.
- Hands-on Labs and Practice Scenarios

#### **Microsoft Azure Proficiency (Optional)**

**Duration:** 40 Hours

**Outcome of this term:** This term covers Azure administration, solution architecting, DevOps, and certification preparation, equipping you with the skills to design, deploy, and manage cloud solutions on Azure.

#### Module 1:

Azure Administration & Identity Management

- **Introduction to Azure**: Navigating the portal and basic CLI commands.
- Account Setup: Subscription types, resource groups, and billing alerts.
- Azure Identity: Role-based access control and Active Directory.

# Module 2: Architecting Solutions on Azure

- Advanced Networking: Load balancing, VPN, and ExpressRoute setups.
- Data Solutions: Azure SQL, Cosmos DB, and Synapse Analytics.
- Developing for Cloud: Microservices, containers, and serverless.

#### Module 3:

Advanced Azure Specializations

- **Azure DevOps:** CI/CD pipelines for streamlined deployment.
- Application Modernization: Optimize apps with Azure services.
- Governance and budget controls for efficiency.
- Azure Storage: **Blob tiers and Data Lake integration**

#### Module 4: Certification Preparation for Azure

- Certification Prep: Solutions Architect Expert exam readiness.
- Case Studies: Real-world cloud scenarios and best practices.
- Core Domains: Review concepts & study resources

#### **Google Cloud Platform (GCP) Fundamentals**

**Duration: 40 Hours** 

**Outcome of this term:** This term covers GCP basics, advanced architecture, networking, database management, and big data services, preparing you to design and manage scalable cloud solutions on Google Cloud.

#### Module 1:

GCP Basics and Core Services

- Overview of GCP Services
- Setup & Create accounts, projects, and IAM roles.
- Compute Services: Manage VMs, preemptible instances, and GKE clusters.
- Storage Services: **Buckets, storage classes, Firestore, and Bigtable.**

#### Module 2: Advanced GCP Architecting and Networking

- VPC and Subnets: Create VPCs, configure subnets, and peering.
- Load Balancing: Set up HTTP(S) and traffic.
- Design multi-region and hybrid cloud solutions.
- Implementing Traffic Management with Cloud Load Balancing

#### Module 3:

GCP Database Management and Big Data

- Big Data Services: Use BigQuery, Dataproc, and data migration tools.
- Database Management: Firestore, Bigtable, and optimizing databases.
- Cloud Monitoring: Alerts, log analysis, and Cloud Logging setup.
- Traffic Management Using load balancing

#### **Server and Application Virtualization**

**Duration: 30 Hours** 

**Outcome of this term:** This term covers virtualization fundamentals, server and application virtualization, and containerization, equipping you with the skills to efficiently manage virtualized environments and multi-cloud deployments.

#### Module 1:

# Fundamentals of Virtualization

- Virtualization Basics: Benefits, concepts, and hypervisors (Type 1, Type 2).
- Full vs. Para-Virtualization: Differences, pros, cons, and use cases.
- Hypervisors: Overview of VMware, KVM, Hyper-V.

#### Module 2:

Server Virtualization & Application Virtualization

- VM Lifecycle: Create, configure, clone, and delete virtual machines.
- VM Resource Allocation: Allocate CPU, RAM, storage, and networks.
- Application Virtualization: Package apps with tools like **ThinApp**, **XenApp**.

#### Module 3:

Containerization and Orchestration

- VMs vs. Containers: Efficiency, security, and use case scenarios.
- **Unikernels**: Lightweight virtualization for specific applications.
- Multi-cloud Deployments: Virtualization in hybrid and multi-cloud setups.

#### **Data Migration and Resilience**

**Duration: 25 Hours** 

**Outcome of this term:** This term focuses on data migration strategies, ensuring high availability, resilience, and security in multi-cloud environments, while integrating DevOps practices for efficient and automated workflows.

#### Module 1:

Data Migration in Multi-Cloud Environments

- Basics of Data Migration: Types, benefits, and common challenges.
- Migration Strategies: Lift-&-shift, re-architecting, rollback planning.
- Key Considerations: Data integrity, security, and downtime reduction.

#### Module 2:

Resilience and High Availability in Cloud

- High Availability: Redundancy with availability zones.
- Disaster Recovery: Recovery plans, RPO, and RTO strategies.
- Backup Solutions: Incremental and automated backup techniques.

#### Module 3:

Integrating Data
Migration with DevOps

- **CI/CD Pipelines:** Streamlining data migration with DevOps tools.
- Automate data handling and compliance workflows.
- Monitoring: Track data integrity and process efficiency.

#### Module 4:

Case Studies & Real-World Projects

- Enterprise Projects: Implement resilience in data migration.
- High Availability: Real-world multi-cloud availability setups.
- Securing Cloud Data: Strategies for protection in cloud environments.

#### **DevOps Mastery and Tooling**

**Duration:** 60 Hours

**Outcome of this term:** This term covers core DevOps practices, version control, automation, configuration management, monitoring, and infrastructure as code.

# Module 1: Introduction to DevOps

- DevOps Overview: What is DevOps, Benefits of DevOps, DevOps lifecycle, Key principles
- DevOps Culture and Collaboration: Differences between DevOps and traditional models, DevOps culture and mindset, Team roles

## **Module 2: Version Control**

- Introduction to Version Control: Importance of version control, Version control systems (VCS)
- **Git Basics:** Git setup, Git workflow, Branching and Merging, Tagging, Git commands
- **GitHub/GitLab:** Repository management, Collaboration, Pull Requests, Webhooks

#### Module 3: Continuous Integration (CI)

- **CI Concepts and Importance:** What is CI, Benefits of CI, Overview of CI tools
- **Jenkins:** Strategies, versioning, and Git practices.
- GitLab CI configuration, YAML syntax, Runners, GitLab CI/CD pipeline

#### **Module 4:**

Build and Release Management

- Build Automation: Introduction to build automation, Build tools (Maven, Gradle), Build automation for CI
- Package Management: Package repositories
   (Nexus, JFrog Artifactory), Managing dependencies
- Release Management: Release strategies, Managing releases in Git, Versioning

#### Module 5:

# Continuous Delivery (CD) & Deployment Automation

- CD Overview and Tools: Continuous delivery principles, Differences between CI and CD
- Deployment Automation: Infrastructure as Code (IaC), Benefits of automation, Tool overview (Ansible, Terraform)
- **Ansible Basics:** Ansible playbooks, Inventory management, Modules, Roles
- **Terraform:** Terraform basics, Writing configuration files, State management

#### Module 6:

## Container Orchestration Basics

- **Introduction to Containers:** What are containers, Benefits of containerization, Introduction to container orchestration
- **Kubernetes:** Kubernetes architecture, Pods, Services, Deployments, Namespaces, ConfigMaps, Secrets
- **Helm:** Helm basics, Charts, Repositories, Managing Helm releases

#### Module 7: Continuous Monitoring

- **Monitoring and Logging Concepts:** Importance of monitoring, Metrics, Logging basics
- **Prometheus and Grafana:** Prometheus installation, Metrics collection, Grafana dashboards.
- ELK Stack (Elasticsearch, Logstash, Kibana): Setting up ELK, Log collection and processing, Visualizing logs in Kibana

#### **Advanced Security and DevSecOps**

**Duration:** 30 Hours

**Outcome of this term:** This term focuses on cloud security, DevSecOps practices, and automation tools, equipping you to implement secure cloud environments and automate security within CI/CD pipelines.

#### Module 1: Security in DevOps (DevSecOps)

- **Introduction to DevSecOps:** What is DevSecOps, Shift-left security, Security in CI/CD pipelines.
- **Security Tools:** Code scanning (SonarQube), Container security, Secrets management (Vault)

#### Module 2: SRE (Site Reliability Engineering)

- Introduction to SRE: What is SRE, SRE principles, SLOs, SLIs, SLAs
- Monitoring and Incident Response: Incident management, Monitoring best practices, Alerting

# Module 3: Advanced Topics and Best Practices

- **GitOps and Infrastructure as Code (IaC):** GitOps principles, Flux and ArgoCD for Kubernetes
- CI/CD Best Practices: Best practices in CI/CD pipelines, Optimizing performance, Reducing build times
- **DevOps in Real-World Scenarios:** Case studies, Challenges, Best practices

#### **Electives and Specialized Cloud Projects**

**Duration: 20 Hours** 

**Outcome of this term:** This term covers big data integration, advanced multi-cloud networking, and project-based learning, preparing you for cloud certifications and real-world deployment scenarios.

#### Module 1:

## Big Data Integration for Cloud

- Big Data Services on AWS, Azure, and GCP
- Real-time Analytics and Data Lakes
- Optimizing Big Data Workflows for Cost and Performance in Cloud Environments

#### Module 2: Advanced Networking in Multi-Cloud

- Multi-cloud Network Design and Load Balancing
- VPN, Direct Connect, and Peering Solutions
- Implementing Secure Network Architectures Across Multi-Cloud Environments

#### Module 3:

Project-Based
Learning and Case
Studies

- Industry-Specific Scenarios (Healthcare, E-commerce, Finance)
- Real-World Multi-cloud Deployment and Management Projects

#### Module 4:

Certification
Pathways and
Exam Prep

- AWS Solutions Architect, SysOps, and DevOps Prep
- Azure Solutions Architect, DevOps Engineer Exam
- GCP Architect Certification and Practice Exams

#### **GenAl Essentials for Cloud & Devops**

**Duration:** 30 Hours

**Outcome of this term:** This term explores the integration of Generative AI in DevOps, focusing on automating workflows, optimizing CI/CD pipelines, and enhancing monitoring and incident resolution with AI-powered tools.

#### Module 1:

Introduction to Generative AI in DevOps

- Generative Al overview.
- Use cases in DevOps automation.
- Introduction to Large Language Models (LLMs) like GPT.

# Module 2: Automating DevOps Workflows with Generative AI

- Al for Infrastructure as Code (IaC) automation,
   Al-assisted CI/CD pipeline optimization
- Automated script generation.

# Hands-On Project 1:

- "Automate Infrastructure Setup with Generative AI"
- Build an AI-powered tool that generates Terraform or Ansible scripts to provision resources dynamically.

#### Module 3:

AI-Powered
Monitoring &
Incident Resolution

- AI for real-time **log analysis**, Incident detection using Generative AI.
- Automated **root cause analysis** with AI insights.

# Module 4: Predictive Analytics and Resource Management

- Al for cloud resource forecasting, Predicting workload trends.
- Automating resource scaling based on Al insights.

# Hands-On Project 2:

- "Real-Time Incident Detection and Resolution System"
- Create a system that uses Generative AI to analyze server logs, detect anomalies, and suggest resolution steps.

#### **Module 5:**

Generative Al for Container Orchestration

- Al for **Kubernetes** manifest generation.
- Automated scaling of **microservices**.
- Dockerfile creation with AI tools.

#### Module 6:

Cost Optimization and Budget Planning with AI

- **Al-driven** cost forecasting.
- Identifying cost-saving strategies.
- Budget optimization with Generative AI tools.

# Hands-On Project 3:

- "AI-Enhanced Cloud Cost Optimization Tool"
- Develop a dashboard that analyzes cloud billing data and suggests cost-saving actions using Generative AI.

# Module 7: Disaster Recovery and Security Automation with AI

- AI for generating disaster recovery plans.
- Automating backup configurations.
- Generative AI in cloud security workflows.

#### Module 8:

Customizing
GenAl Tools for
Cloud and
DevOps Needs

- Fine-tuning LLMs for DevOps tasks.
- Integrating OpenAI APIs with DevOps tools.
- Custom automation scripts with Al.

# Hands-On Project 4:

- "Disaster Recovery Automation with AI"
- Build an AI-powered tool to design, test, and automate disaster recovery strategies for cloud environments.

**Discussion Prompt:** "How do you see Generative Al revolutionizing CI/CD pipelines in enterprises?"

**Practical Tip:** "Use ChatGPT or similar LLMs to generate a basic Terraform script and compare it with a manually written one for efficiency."

#### **Cloud Computing Masterclass - IIT Guwahati Faculty**

**Duration:** 5 Hours

**Outcome of this term:** This term covers cloud computing fundamentals, advanced technologies, and industry trends, with expert sessions and certification preparation for AWS, Azure, and GCP.

#### Module 1:

Fundamentals and Industry Insights

- Evolution of Cloud Computing: from Basics to Multi-Cloud
- Cloud Service Models (laaS, PaaS, SaaS) and Deployment Strategies
- Industry Use Cases: BFSI, Healthcare, Retail

# Module 2: Advanced Cloud Technologies and Trends

- Serverless and Edge Computing
- Hybrid and Multi-Cloud Strategies for Enterprises
- Sustainable Cloud Practices: Green Computing

#### **Hands-On Exercise**

**Practical Task:** "Sketch a multi-cloud deployment strategy for an e-commerce business, highlighting key advantages."

**Brainstorm:** "Identify three ways serverless computing can improve scalability for startups with limited resources."

#### Executive-level real-time Industrial Projects

#1

#### CI/CD Pipeline for a Microservices Application

Create a multistage CI/CD pipeline for deploying a microservicesbased application to a cloud platform like AWS, Azure, or Google Cloud Platform (GCP).

Tools: Jenkins, GitLab CI/CD, Docker, Kubernetes, Helm, Terraform, Ansible.

**Outcome**: Automated build, test, and deployment using Jenkins or GitLab CI/CD.

#2

### Cloud Infrastructure Automation with Terraform

Design and deploy an automated cloud infrastructure setup using Terraform to create and manage cloud resources like virtual machines, databases, and storage services.

Tools: Terraform, AWS CloudFormation, Azure Resource Manager (ARM) templates.

**Outcome**: Create reusable modules for infrastructure components.

#3

## Monitoring and Logging Solution on the Cloud

Set up a robust monitoring and logging infrastructure for realtime data analysis and alerting.

Tools: Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), AWS CloudWatch, Datadog.

**Outcome:** Collect logs and metrics from applications and infrastructure.

#4

# Serverless Application Deployment with DevOps Practices

Build and deploy a serverless application using cloud functions, ensuring that the entire process follows a DevOps workflow.

Tools: AWS Lambda, Azure Functions, Google Cloud Functions, GitHub Actions, Serverless Framework.

**Outcome**: Deploy serverless functions as part of a CI/CD pipeline.

#### Executive-level real-time Industrial Projects



# CloudBased DevOps Pipeline with Security Integration (DevSecOps)

Implement a secure DevOps pipeline that incorporates security practices (DevSecOps) into the development and deployment cycle.

Tools: Jenkins, Azure DevOps, GitLab CI/CD, Docker, OWASP ZAP, SonarQube.

**Outcome**: Integrate security scanning into the build pipeline.

# Thank you!

For more queries and information please reach out to us at:

+91 77956 87988

Visit us at

www.learnbay.co

