Learnbay

Professional Certificate in
AWS Cloud Computing & Devops

In collaboration with

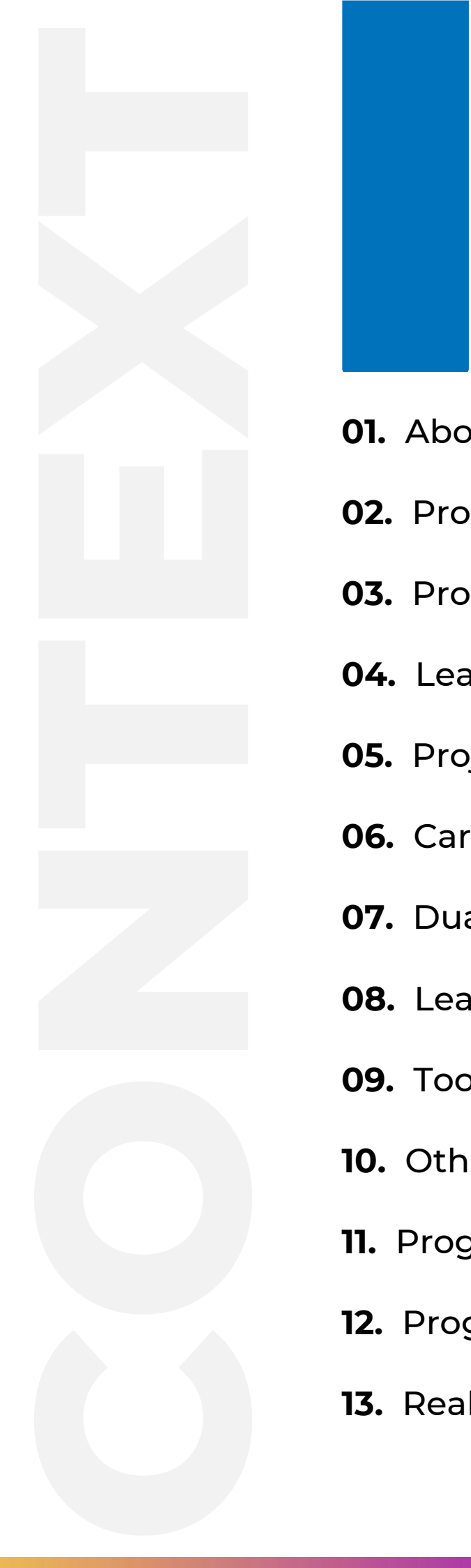**IBM.** & **Microsoft**

www.learnbay.co

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CONTEXT

Advance Cloud Computing and Devops

About the Program:

Our Cloud Computing & DevOps Program offers an in-depth look at the cloud world, covering everything from networking to AI integration.

You'll get hands-on with AWS, Azure, and GCP, mastering skills in automation, security, and DevOps. Plus, you'll dive into AI's role in cloud computing and learn to build innovative cloud-based SaaS applications.
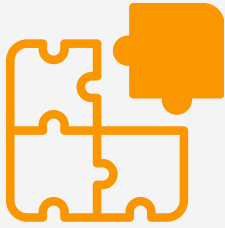
35k+
Trusted Learners

2cr
scholarships awarded

600+
professionals secured jobs

Program Highlights

Industry-Relevant & Updated Syllabus

Learn the industry's latest tools, techniques & trends. Gain hands-on experience developing various apps.

360 Degree Knowledge Building

Develop practical skills through real-world projects and assignments

1:1 Dedicated Mentorship

Personalized learning experience from experienced industry professionals.

Multiple Career Opportunities

We don't just educate; we guide you towards your career goals with our dedicated placement pool.

Talk to our counsellor

- Curriculum Insights
- Post-Program Support
- Financing Solutions
- Career Prospects Exploration

Inquire Now

Program Details

COURSE PREREQUISITE

Basic understanding of IT and software with foundational knowledge in networking is required

PROGRAM ELIGIBILITY

- **IT Professionals:** Ideal for IT administrators, system admins, network engineers looking to upgrade their skills.

- **Software Developers:** Beneficial for developers aiming to specialize in DevOps practices and cloud solutions.

- **Career Changers:** Open to professionals from different backgrounds seeking to transition into the IT and cloud domain.

KEY FEATURES

- Practical exercises, real-world projects, and lab sessions using AWS, Azure, Docker, and Jenkins.

- Dedicated Placement Cell | 100% Guaranteed Interview calls

- Globally Recognised **Certification from IBM & Microsoft**

JOB ROLES TO TARGET

Cloud Engineer   Cloud Architect
DevOps Engineer   Automation Engineer
Site Reliability Engineer (SRE)   Infrastructure Engineer
System Administrator   Cloud Security Specialist

Click below

Check Eligibility

Learnbay's ProjectLab

Choose Learnbay for your career journey because we're more than just a training provider. Our Project Innovation Lab lets you apply your skills in real-world scenarios. Get **dual certifications** for a competitive edge. Discover how Learnbay can boost your career growth. Don't settle for less – choose Learnbay, your path to success!

1 Project Innovation Lab

Work in an industry like environment and gain practical hands-on experience of data scientist with dedicated mentors from industry.

2 Dedicated Placement Cell

Experience 100% job assistance with guaranteed interview call from leading MNCs and startups globally.

3 Dual Certification

Gain top-notch skills for a successful career through our certification program in collaboration with IBM & Microsoft

Project Innovation Lab

Learnbay's Project Innovation Lab replicates industry like environment for real time projects. With our **ProjectLab,** you gain real proof of hands-on experience by having your project certified by the industry.

In our ProjectLab, you work like a data scientist with dedicated project mentors from industry and get certified on capstone project.

450+
Hiring Partners

📍 **PUNE**

35k
Trusted Learners

💬 **1-1 Doubt Session**

📍 **HYDERABAD**

🚀 **Capstone Project Certificate from IBM**

📍 **DELHI**

📍 **BENGALURU**

Project Innovation Labs Across India

2 Career Service

Get 1 Year of Job and Placement support

Unleash your career potential with 1 year of unlimited job access, interview support, and profile review.

1 Mock Interviews with Industry Experts

Master the art of data science & AI and stay ahead of the curve with mockups and industry insights

Resume Building Session

Craft a powerful resume showcasing your expertise in software development to stand out from the competition

4 Interview Calls

Receive 4 interview calls from a diverse pool of interested employers/recruiters.

3 Industry Certification

IBM

IBM Course Certificate

Complete your training with the globally recognized certificate.

Microsoft
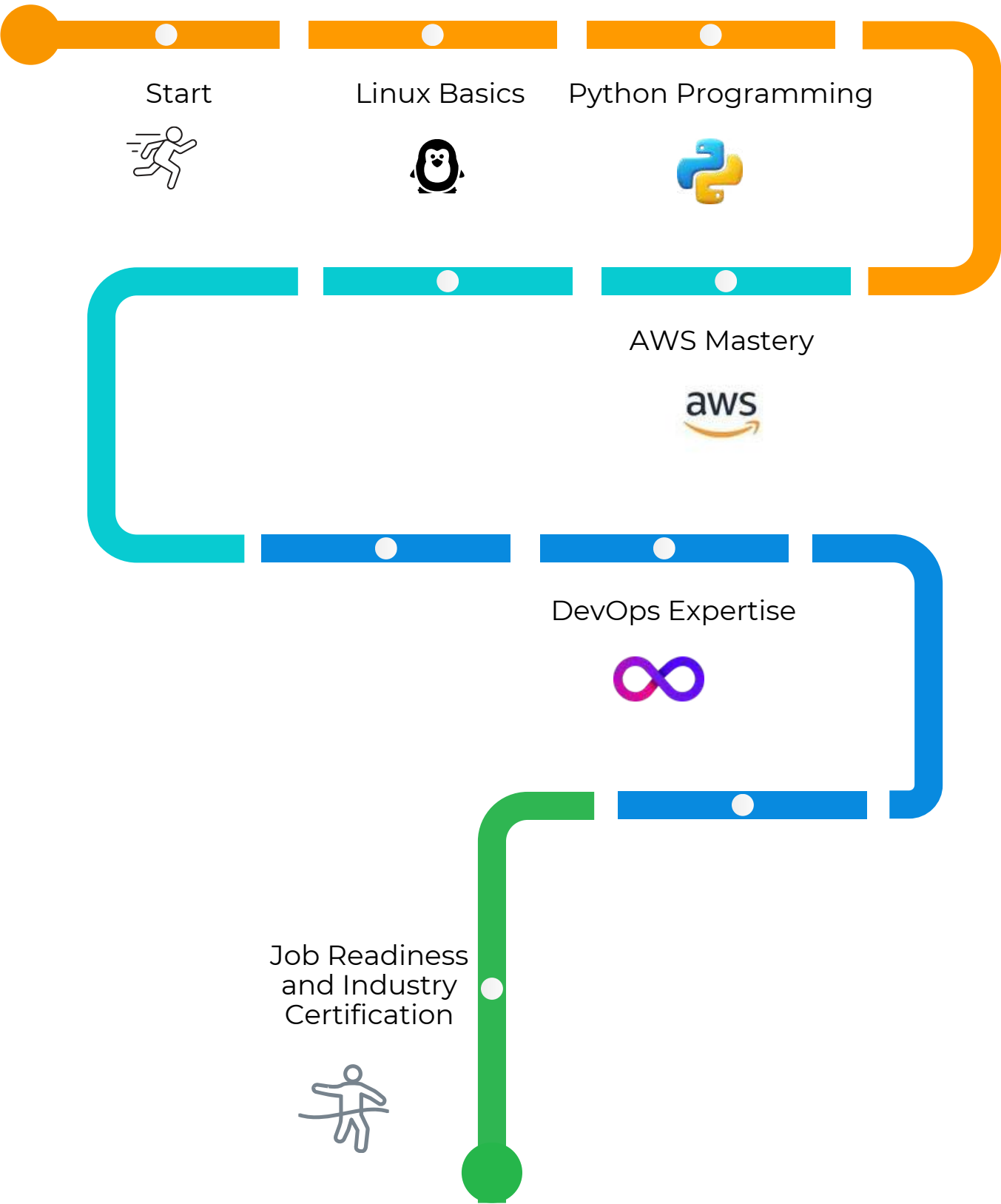
Microsoft Azure Certificate

Achieve professional growth & increase earning potential with Microsoft Azure certification
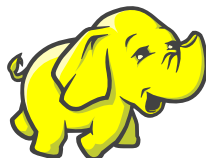
IBM

IBM Capstone Project Certificate

Highlight your skills & boost your project portfolio with capstone project certificate

Learning Path

Start

Linux Basics

Python Programming

AWS Mastery

DevOps Expertise

Job Readiness
and Industry
Certification

Tools Covered

Linux | Python | Google Cloud | aws

docker | Azure | Nagios

git | kubernetes | puppet | GitHub

splunk> | Terraform | Jenkins

Cloud DevOps | CHEF | NumPy

jupyter | Hadoop | ANSIBLE | AWS CloudShell

amazon S3 | Amazon ELB | Amazon EC2

Others Vs Learnbay

Benefits	Learnbay	Others
Guaranteed Interview Calls	✅	⬜
Industry capstone project certificate from IBM	✅	⬜
Domain specialized programs for professionals	✅	⬜
100% live interactive sessions with industry experts	✅	⬜
On-demand video call with industry experts	✅	⬜
Personalised Resume Review Session	✅	⬜

Program Fee & Financing

Scholarship

Scholarships are awarded based on profile review. Eligible candidates can avail upto 25% scholarship on desired courses. Click the button below to apply.

Click below

Check Scholarship Eligibility

Financing as low as

Rs. 3,277/month

No Cost EMI

Razorpay

LIQUILOANS

Propelld

ShopSe

Program Fee

Rs. 50,000/- +18% GST

Program Syllabus

Linux Fundamentals and Introduction | 10 Hours

Linux Basics and System Administration

- Introduction to Linux Operating System
- Command Line Interface (CLI) Essentials
- User and Group Management
- Networking Basics in Linux

Practical exercises and assignments for mastering Linux commands

- Command Line Mastery: Exercises focusing on everyday CLI usage
- Script Writing: Basics of Shell Scripting for Automation
- System Administration Tasks: Setting up a Web Server, Creating Cron Jobs

Tools covered | LINUX

Program **Syllabus**

Python Programming Essentials   **25 Hours**

Introduction to Python and Environment Setup

- Basics of Python Programming Language
- Setting Up Python Development Environment
- IDE Setup and Introduction (PyCharm, Jupyter Notebook)

Python Programming Foundations

- Data Types, Variables, and Basic Operators
- Control Structures: If-Else Statements, Loops
- Functions: Definition, Arguments, Return Values

Tools covered | Jupyter   PyCharm

Data Handling and Structures

- Lists, Tuples, Dictionaries, and Sets
- String Manipulation and Regular Expressions
- File Operations: Reading and Writing Files

Real time project will be covered after Python completion with 2 hours of assessment (coding and objective questions)

Program Syllabus

Python Programming Essentials

Advanced Python Concepts

- Object-Oriented Programming (OOP) in Python
- Classes, Objects, Inheritance, and Polymorphism
- Encapsulation and Abstraction
- Exception Handling and Debugging Techniques
- Modules and Packages: Importing and Creating

Project Work and Practice

- Hands-on sessions with Python scripting and automation projects
- Real-world problem-solving using Python
- Mini-projects: Developing small-scale applications or scripts

Program **Syllabus**

AWS Cloud Mastery   40 Hours

AWS Administration Level

Introduction to AWS

- AWS Services Overview
- Setting Up AWS Accounts
- AWS Management Console

AWS Storage Services

- S3 (Simple Storage Service)
- EBS (Elastic Block Store)
- Glacier
- Storage Gateway
- Amazon FSx (Fully Managed File Storage)

Networking and Content Delivery

- VPC (Virtual Private Cloud)
- CloudFront
- Route 53
- API Gateway
- AWS Direct Connect

Monitoring and Management

- CloudWatch
- CloudTrail
- AWS Config
- AWS Trusted Advisor

AWS Compute Services

- EC2 (Elastic Compute Cloud)
- AWS Lambda
- Elastic Beanstalk
- Lightsail
- Amazon ECS
- EKS (Elastic Kubernetes Service)

AWS Database Services

- RDS (Relational Database Service)
- DynamoDB
- Redshift
- ElastiCache
- Amazon Aurora

Automation and Optimization

- AWS CLI (Command Line Interface)
- CloudFormation
- Systems Manager
- AWS Elastic Beanstalk for Deployment Automation

Program Syllabus

AWS Cloud Mastery

Transitioning to Solution Architect

Architecting on AWS

- Designing Systems (Availability, Cost-Efficiency, Fault-Tolerance, Scalability)
- Decoupling Mechanisms and Scalable Design
- Choosing Appropriate AWS Services

Advanced Networking

- VPC Design and Implementation
- Advanced Security and Networking Best Practices

Data Security

- Data Encryption Methods
- Compliance and Governance

High Availability and Business Continuity

- Disaster Recovery Strategies
- High Availability Approaches

Cost Optimization

- Cost-Effective Resource Utilization
- Monitoring and Optimization Techniques

Migration and Innovation

- Migration Strategies to AWS
- Leveraging AWS for Innovation

Designing for New Technologies

- IoT (Internet of Things) Solutions
- Machine Learning Implementations
- Serverless Architectures

Program **Syllabus**

DevOps Expertise　　**70 Hours**

Mastering DevOps

DevOps Tools and Practices

Introduction to DevOps

- Evolution of DevOps and its significance in modern software development.
- Core principles of DevOps practices.

Infrastructure Setup

- Fundamentals of server configuration and management.
- Setting up and managing virtual environments for DevOps practices.

Version Control with Git

Basics of Git

- Introduction to version control systems.
- Fundamental Git commands and workflows.

Advanced Git Techniques

- Branching strategies for collaborative development.
- Conflict resolution and best practices for maintaining code integrity.

Containerization with Docker

Introduction to Containerization

- Concepts of containerization and its advantages.
- Docker installation and setup.

Docker in Practice

- Building, running, and managing Docker containers.
- Docker Compose for multi-container setups.

Program **Syllabus**

DevOps Expertise

Mastering DevOps

Configuration Management

Puppet for Configuration Management

- Basics of Puppet: Architecture, setup, and usage.
- Writing and applying Puppet manifests.

Ansible for Automated Configuration

- Ansible fundamentals: Playbooks, roles, and inventory.
- Automation of repetitive tasks using Ansible.

Continuous Integration and Continuous Delivery (CI/CD)

Jenkins for CI/CD

- Setting up Jenkins for automated build and deployment.
- Integrating Jenkins with various development tools.

Continuous Delivery and Deployment Strategies

- Automating the software release process.
- Best practices in maintaining a CI/CD pipeline.

Container Orchestration with Kubernetes

Kubernetes Fundamentals

- The architecture of Kubernetes, pods, and services.
- Deploying applications on Kubernetes clusters.

Advanced Kubernetes Management

- Scaling applications with Kubernetes.
- Kubernetes networking, storage, and security.

Program **Syllabus**

DevOps Expertise

Mastering DevOps

Monitoring and Logging with ELK Stack

Elasticsearch, Logstash, and Kibana (ELK)

- Setting up the ELK Stack for logging and monitoring.
- Creating dashboards and visualizations in Kibana.

Integrating Monitoring into DevOps Workflows

- Automated monitoring and alerting.
- Best practices for log management and analysis.

Infrastructure as Code (IaC) with Terraform

Introduction to IaC and Terraform

- Principles of IaC and its benefits.
- Installing and configuring Terraform.

Building Infrastructure with Terraform

- Writing Terraform scripts for automated infrastructure deployment.
- Managing and scaling infrastructure with Terraform.

The **IBM** exam will be conducted for all the modules after completion of the course

Real-time Projects

AWS Migration Project for E-Commerce:

Project: 01

This project focuses on migrating e-commerce systems to AWS, optimizing for scalability and reliability, and includes streamlining the checkout process and data storage solutions.

EC2 · RDS · Amazon CloudFront

Healthcare Data Management with Kubernetes:

Project: 02

Deploying a Kubernetes solution for healthcare data, this project focuses on enhancing data handling efficiency, ensuring security compliance, and improving patient data accessibility.

kubernetes · docker

Banking Cloud Security Enhancement:

Project: 03

This project strengthens the banking cloud infrastructure by implementing advanced security protocols and real- time threat detection mechanisms to protect sensitive financial data.

aws · Azure Security Center

Event Management Serverless Solution:

Project: 04

Creating a serverless architecture for event management, this project aims to improve scalability and cost-efficiency, focusing on automated event scheduling and attendee management.

AWS Lambda · Amazon API Gateway · DynamoDB

Real-time Projects

SaaS Application Containerization:

Project: 05

This project transitions a suite of SaaS applications to a containerized environment, focusing on enhancing deployment speed and application scalability.

kubernetes   docker

Insurance Software DevOps Transformation:

Project: 06

Implementing DevOps practices in insurance software, this project aims to streamline operations, enhance software quality, and accelerate product releases.

Jenkins   git   ANSIBLE

Hybrid Cloud Setup for Manufacturing:

Project: 7

Establishing a hybrid cloud setup for a manufacturing environment, the project focuses on integrating on-premise systems with cloud resources for better data management and operational efficiency.

vmware   aws

Contact Us

🟢 **Click here to whatsapp**

or call us at
+91 77956 87988