AZURE DEVOPS COURSE

MASTERCLASS ‖ JOB ORIENTED ‖ REAL-TIME PROJECT

+91 89777 21349 / +91 891 989 4273

www.levelupedu.net

Level Up

Coaching • Mentoring • Consulting

Welcome to the Future of Data Management!

OUR SERVICES

01 Tailored Solutions, Every Time

02 Continuous Learning, Continuous Improvement

03 Hands-on Learning with Industry Tools

04 Real-world Project Simulations

05 Career Guidance and Networking Opportunities

VISIT OUR WEBSITE
FOR FULL LIST
WWW.LEVELUPEDU.NET

WHAT YOU CAN EXPECT

01 Cutting-edge Curriculum

02 Flexible Learning Options

03 Collaborative Learning Environment

04 Ongoing Career Assistance

05 Certification and Recognition

BOOK A SEAT

info@levelupedu.net
+91 89777 21349 / 903 072 5482
www.levelupedu.net

Level Up
Coaching • Mentoring • Consulting

Master the Art of Data Engineering in the Azure Cloud!

Are you ready to embark on a journey of knowledge and innovation? Welcome to our **Azure DevOps** Educational Training Program, where learning meets limitless possibilities.

Table of Contents

About the Program

The Azure DevOps Engineer Certification Program provides comprehensive training in the principles and practices of DevOps, with a specific focus on utilizing Microsoft's Azure DevOps platform.

The program is structured into twelve modules, each covering key aspects of DevOps implementation and management. Starting with an introduction to DevOps culture and Azure DevOps platform, participants progress through topics such as CI/CD pipeline implementation, infrastructure as code (IaC), application monitoring, security, and more.

Gain Hands-on Experience with Real time projects with us and be a devops expert
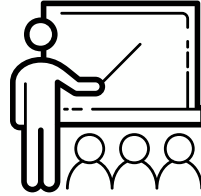
+91 89777 21349 / +91 891 989 4273

www.levelupedu.net
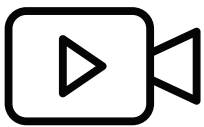
Key Features
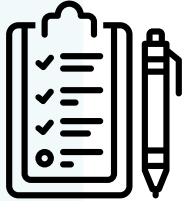
Industry Relevant Curriculum

Limited class size for an optimal experience

Constantly Updated According to Industry Trends

50+ hands-on assignments and 2 capstone

Life-time Access to the recorded sessions

1:1 mock interview Sessions

Career Guidance & Placement Support

Get in Touch With Us

LEVELUPEDU_TRAININGS

+91 89777 21349 / +91 891 989 4273

www.levelupedu.net

MODULE 1: INTRODUCTION TO AZURE DEVOPS

- DevOps Principles and Practices
- Azure DevOps Platform Overview
- Managing Organizations and Projects
- Version Control with Git
- CI/CD Concepts and Pipelines
- Artifact Management with Azure Artifacts

MODULE 2: IMPLEMENTING CI/CD PIPELINES

- Setting up Build Pipelines
- Configuring Continuous Integration
- Implementing Automated Testing
- Defining Deployment Strategies
- Creating Release Pipelines
- Managing Deployments
- Monitoring and Reporting in CI/CD

MODULE 3: INFRASTRUCTURE AS CODE (IAC)

- Introduction to IaC
- Using Azure Resource Manager (ARM) Templates
- Terraform and Infrastructure Provisioning
- Configuration Management with DSC and Ansible
- Azure Automation and Desired State Configuration (DSC)
- Managing Infrastructure Changes and Updates

+91 89777 21349 / +91 891 989 4273

www.levelupedu.net

MODULE 4: APPLICATION MONITORING AND FEEDBACK LOOPS

- Monitoring Tools and Services in Azure
- Setting Up Application Insights
- Application Performance Monitoring (APM)
- Log Analytics and Diagnostic Logging
- Implementing Telemetry and Feedback Mechanisms
- Continuous Feedback and Improvement

MODULE 5: SECURITY AND COMPLIANCE IN DEVOPS

- Security Best Practices in DevOps
- Azure Security Center and Policies
- Implementing Access Control and Identity Management
- Compliance and Regulatory Considerations
- Threat Detection and Response
- Secure Development Lifecycle (SDL) Principles

MODULE 6: DEVOPS ADOPTION AND CULTURAL SHIFT

- Building a DevOps Culture
- Organizational Change Management (OCM)
- Agile and DevOps Integration
- DevOps Tools and Technology Ecosystem
- Measuring DevOps Success and Performance
- Continuous Improvement and Learning

+91 89777 21349 / +91 891 989 4273

www.levelupedu.net

MODULE 7: ADVANCED AZURE DEVOPS CONCEPTS

- Multi-Stage Pipelines and Parallel Jobs
- YAML Pipelines for Configuration as Code
- Parameterization and Variables in Pipelines
- Using Templates for Reusable Pipelines
- Integration with Third-Party Tools and Services
- Custom Scripting and Extensions

MODULE 8: MANAGING CONTAINERS AND KUBERNETES

- Containerization Concepts (Docker)
- Azure Container Registry and Container Instances
- Kubernetes Orchestration and Azure Kubernetes Service (AKS)
- Deploying Applications with Helm Charts
- Monitoring and Scaling Containers
- Continuous Deployment with Kubernetes

MODULE 9: IMPLEMENTING DEVOPS FOR MULTI–PLATFORM ENVIRONMENTS

- Cross-Platform Development and Testing
- Targeting Different Operating Systems and Frameworks
- Managing Dependencies in Multi-Platform Projects
- Compatibility Testing and Verification
- Deployment Strategies for Multi-Platform Applications
- Monitoring and Debugging in Diverse Environments

+91 89777 21349 / +91 891 989 4273

www.levelupedu.net

MODULE 10: DISASTER RECOVERY AND HIGH AVAILABILITY

- Business Continuity Planning (BCP)
- Backup and Recovery Strategies for Applications and Data
- Failover and Redundancy Architectures
- Implementing Load Balancing and Traffic Management
- High Availability Solutions in Azure
- Testing and Simulating Disaster Scenarios

MODULE 11: GOVERNANCE AND COST MANAGEMENT

- Azure Policy and Governance Framework
- Budgeting and Cost Allocation in Azure
- Implementing Cost Controls and Optimization
- Resource Tagging and Organization
- Compliance and Audit Reporting
- Forecasting and Planning for Cloud Costs

MODULE 12: FINAL PROJECT AND CERTIFICATION

CONTINUOUS DELIVERY PIPELINE OPTIMIZATION

In this project, you will work on optimizing an existing continuous delivery pipeline for a fictional e-commerce company. You'll focus on reducing deployment times, increasing automation, and implementing advanced monitoring and feedback mechanisms. This includes streamlining the build process, improving test coverage, and enhancing deployment strategies.

INDUSTRY RELEVANCE

This project is highly relevant in industries that rely on continuous delivery of software updates, such as e-commerce, SaaS providers, and mobile app development. It demonstrates proficiency in optimizing workflows for faster, more reliable deployments.

KUBERNETES ORCHESTRATION AND SCALING FOR MICROSERVICES

This project involves designing and implementing a Kubernetes-based orchestration system for a microservices architecture. You will configure auto-scaling, load balancing, and implement deployment strategies for microservices. Additionally, you will set up monitoring and alerting to ensure optimal performance.

INDUSTRY RELEVANCE

This project is crucial in industries adopting microservices architectures, such as fintech, healthcare, and IoT. It showcases expertise in managing complex, scalable applications using container orchestration platforms like Kubernetes.

CAPSTONE PROJECTS

SECURITY AND COMPLIANCE AUTOMATION FOR CLOUD ENVIRONMENTS

This project focuses on automating security and compliance checks for a cloud-based infrastructure. You will develop scripts and policies to continuously monitor and enforce security best practices, compliance standards, and vulnerability assessments. The project will culminate in a detailed report on the security posture of the environment.

INDUSTRY RELEVANCE

With increasing concerns about data security and compliance in industries like finance, healthcare, and government, this project demonstrates the ability to build robust security automation solutions to ensure regulatory compliance and protect sensitive information.

CERTIFICATION YOU CAN PURSUE AFTER COMPLETING THE COURSE

Azure DevOps Engineer Certification

Eligibility Criteria

- Bachelor's degree in any field
- Familiarity with database concepts and SQL.
- Basic understanding of data processing.
- Working Professionals >1yrs
- Optional: Prior experience in data engineering or related fields.
- Basic computer literacy and operating system knowledge.
- Preferred: Familiarity with Azure cloud platform

+91 89777 21349 / +91 891 989 4273

www.levelupedu.net

Certification

Industry Recognised Certification

Trainer Profile

Sateesh Pabbathi

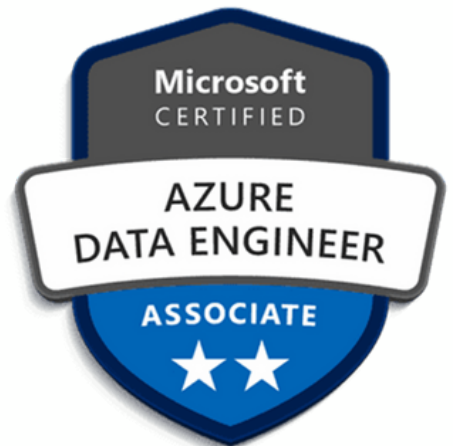### Author & Cloud Expert

in **Linkedin Profile**

With over two decades of industry experience, he stands as a seasoned expert in the realm of cloud computing. Holding certifications as a Microsoft Certified Trainer, AWS Certified Data and DevOps Engineer, GCP Certified Architect, Kubernetes Certified Administrator and more, his expertise is both broad and deep.

Among his notable achievements is the curation and design of courses for prominent Ed-Tech platforms like Upgrad,Simplilearn and more. Through these endeavors, he has successfully trained a substantial cohort of over 4000 students in the dynamic domain of Cloud Computing, arming them with the skills and knowledge necessary for thriving in this rapidly evolving landscape.

+91 89777 21349 / +91 891 989 4273

www.levelupedu.net

Tainer Profile - Certifications

aws certified
Solutions Architect
ASSOCIATE

aws certified
DevOps Engineer
PROFESSIONAL

aws certified
Data Analytics
SPECIALTY

Microsoft CERTIFIED
AZURE ADMINISTRATOR
ASSOCIATE ★★

Microsoft CERTIFIED
DEVOPS ENGINEER
EXPERT ★★★

Microsoft CERTIFIED
AZURE DATA ENGINEER
ASSOCIATE ★★

Microsoft CERTIFIED
AZURE DEVELOPER
ASSOCIATE ★★

Microsoft CERTIFIED
AZURE DATA SCIENTIST
ASSOCIATE ★★