



# EdTech Cloud Migration & Automation

## CUSTOMER CHALLENGE

A growing edtech platform needed to transition from a third-party hosting environment (Plesk Panel) to a secure, scalable, and automated AWS cloud infrastructure to address performance issues, security risks, and the lack of CI/CD and monitoring capabilities.

## APPROACH

The company partnered with a cloud-managed services provider to re-architect their infrastructure following AWS best practices. The primary focus was to ensure high availability, secure access, automated deployment, and robust monitoring for their web and mobile applications.

## IMPLEMENTATION

Migrated applications to AWS using a 2-tier architecture (PHP app and MySQL backend).

Implemented auto deployment using Bash scripts and Git-based workflows via Bitbucket.

Enabled CloudWatch, CloudTrail, AWS Config, and SSM for infra monitoring and patch management.

Configured Apache reverse proxy and Application Load Balancer for scalable traffic distribution.

Stored static content (images, backups) securely on encrypted S3 buckets with fine grained IAM controls.

Enforced strict security controls, Open VPN-based DB access, private subnets, IAM roles, and MFA.

## RESULTS

1

### **Zero Downtime CI/CD:**

Deployment automation allowed faster, safer code releases.

2

### **Improved Reliability:**

Auto-scaling and resilient design reduced application outages.

3

### **Enhanced Security:**

Encrypted data at rest and in transit, with controlled IAM access.

4

### **Proactive Monitoring:**

Real-time alerts and logs enabled quicker incident response.

5

### **Simplified Operations:**

Developers could focus on feature development, not infra management.

## BUSINESS IMPACT

The growing edtech platform achieved a secure, cost-optimized, and fault-tolerant infrastructure that enhanced their platform's reliability and performance. Faster deployments and improved monitoring helped reduce operational overhead, accelerate innovation, and deliver a better user experience to students, parents, and teachers.



**Workmates** is a leading cloud-managed services and IT solutions provider, recognized as an AWS Premier Tier Services Partner—placing us among the top AWS consulting firms globally. Since 2018, we've helped businesses drive innovation and digital transformation with our team of 150+ AWS Certified Professionals, delivering expert solutions and exceptional results.

**Kolkata**  
Head Office

**Hyderabad**

**Bhubaneswar**

**Delhi**

**Singapore**