Advanced Developing on AWS with AWS Jam

Course Duration: 32 Hours **Course Code: AWS-ADV-JAM**

1. Course Overview

The **Advanced Developing on AWS with AWS Jam** course is designed for developers who want to deepen their expertise in building, deploying, and managing applications on the AWS platform. This hands-on course combines advanced development techniques with real-world scenarios through **AWS Jam Labs**, allowing participants to tackle practical challenges and enhance problem-solving skills in a secure AWS environment. By the end of the course, participants will be able to implement scalable, secure, and high-performing cloud applications.

2. What You'll Learn?

- Advanced AWS development best practices and architectural patterns
- Building serverless applications using AWS Lambda, API Gateway, and DynamoDB
- Implementing DevOps practices using AWS CodePipeline, CodeBuild, and CodeDeploy
- Leveraging AWS security and monitoring tools to protect and optimize applications
- Solving real-world challenges through interactive **AWS Jam Labs**

3. Target Audience

- Professional developers seeking advanced AWS application development skills

- Cloud engineers and DevOps professionals looking to enhance AWS deployment capabilities
- IT professionals aiming to gain hands-on experience with advanced AWS services and scenarios

4. Pre-Requisites

- Basic knowledge of AWS core services (EC2, S3, RDS, Lambda)
- Experience with programming languages such as Python, Java, or Node.js
- Familiarity with cloud application architecture and DevOps concepts
- Completion of foundational AWS developer courses is recommended but not mandatory

5. Course Content

Module 1: Advanced AWS Application Development

- Review of AWS core services
- Advanced architectural patterns

Module 2: Serverless Application Development

- AWS Lambda and API Gateway integrations
- DynamoDB best practices

Module 3: DevOps on AWS

- CI/CD pipelines with CodePipeline, CodeBuild, and CodeDeploy
- Automating deployments and monitoring

Module 4: Security and Monitoring

- Implementing IAM best practices
- Monitoring applications with CloudWatch and X-Ray

Module 5: AWS Jam Hands-On Labs

- Real-world scenarios and problem-solving exercises
- Applying advanced development techniques in practice

Module 6: Capstone Project

- End-to-end development and deployment of a cloud-native application
- Integration of serverless, security, and DevOps practices