

COMPLETE VIVA QUESTIONS — AWS LABS + CLOUD MIGRATION + CLOUD API

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SECTION 1 — AWS LAB VIVA

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LAB 1 — VPC

1. What is a VPC?
2. CIDR used for VPC?
3. What is a subnet?
4. Why create a public subnet?
5. Purpose of Internet Gateway?
6. What is a route table?
7. Which route makes subnet public?
8. Why subnet not public initially?

LAB 2 — IAM & CLI

1. What is IAM?
2. Why create IAM user?
3. What policy attached?
4. Why download CSV?
5. Purpose of aws configure?
6. What does sts get-caller-identity show?
7. Error if region is wrong?

LAB 3 — IAM Groups

1. Why use groups?
2. Which group created?

3. Which policy attached?
4. How user inherits permissions?

LAB 4 — Billing

1. What is a cost budget?
2. Threshold?
3. Why budgeting important?

LAB 5 — Lambda

1. What is Lambda?
2. Runtime chosen?
3. Why deploy?
4. What is test event?

LAB 6 — CloudWatch Logs

1. Where does Lambda write logs?
2. What entries seen?
3. Why logs empty?

LAB 7 — API Gateway

1. Purpose of API Gateway?
2. What method created?
3. What is resource path?
4. Why deploy API?

LAB 8 — S3

1. What is S3?
2. Bucket name rule?
3. Why upload may fail?

LAB 9 — EC2

1. Instance type?
2. Why enable public IP?
3. Why chmod 400?
4. Why SSH timeout?

LAB 10 — CloudFormation

1. What is CloudFormation?
2. What resource created?
3. What causes CREATE_FAILED?

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SECTION 2 — CLOUD MIGRATION VIVA

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Unit 1 — Basics of Cloud Migration

1. What is cloud migration?
2. Key drivers for cloud migration?
3. What risks exist during migration?
4. What are the 6 R's of migration?
5. What is cloud readiness assessment?
6. What happens in execution phase?
7. What is ROI in migration?

Unit 2 — Cloud Migration Process & Techniques

1. Phases of migration?
2. What is hybrid cloud migration?
3. What is multi-cloud migration?

4. What is zero■downtime migration?
5. What are cloud migration tools?
6. What is CI/CD in migration?
7. What is an SLA? Types of SLAs?

Unit 3 — Cloud Management & Governance

1. What is cloud governance?
2. What are governance frameworks?
3. What is resource management?
4. What is cloud compliance?
5. What is cost optimization?

Unit 4 — Cloud Providers & Data Migration

1. Name 3 major cloud providers.
2. Compare AWS vs Azure vs GCP.
3. What is high availability?
4. What is load balancing?
5. Troubleshooting steps in cloud migration?

Unit 5 — Emerging Trends in Cloud Migration

1. What is AI■driven migration?
2. What automation helps cloud migration?
3. Future trends in migration?

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SECTION 3 — CLOUD API VIVA

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Unit 1 — Fundamentals of Cloud APIs

1. What is a Cloud API?
2. Role of APIs in cloud computing?
3. Characteristics of Cloud APIs?
4. Types of APIs: REST, SOAP, GraphQL?
5. What is API lifecycle management?
6. Common API request methods?
7. Challenges of Cloud APIs?
8. Benefits of Cloud APIs?

Unit 2 — API Development & Integration

1. What is AWS Lambda API development?
2. How APIs integrate storage/database services?
3. What is OAuth 2.0?
4. What is JWT?
5. Tools for API testing?

Unit 3 — Cloud AI & ML APIs

1. What are cloud AI/ML services?
2. What is AWS Rekognition?
3. What is Google Vision AI?
4. What is NLP?
5. What is Speech-to-Text?

Unit 4 — Serverless & Microservices

1. What is serverless computing?
2. Benefits of serverless?
3. What are microservices?
4. Monolithic vs Microservices?

5. Event-driven services (EventBridge, Pub/Sub)?

6. Serverless deployment examples?

7. API security best practices?

Unit 5 — Capstone & Industry Use Cases

1. Real-world Cloud API use cases?

2. APIs in fintech, healthcare?

3. Future of cloud APIs?

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