Page 1: AWS Basics

- 1. Introduction to AWS:
 - Amazon Web Services: A cloud computing platform by Amazon.
 - Provides compute power, storage, databases, networking, etc.
- 2. Core Services:
 - EC2: Virtual servers (Elastic Compute Cloud).
 - S3: Scalable object storage (Simple Storage Service).
 - RDS: Managed relational database service.
 - Lambda: Serverless computing.
 - VPC: Virtual Private Cloud for networking.
- 3. IAM (Identity and Access Management):
 - Manage users, groups, and permissions.
 - Use roles and policies for access control.
- 4. Regions and Availability Zones:
 - AWS has global data centers divided into regions and AZs.
 - Deploy applications close to users.
- 5. AWS CLI & SDKs:
 - Command-line tools and programming libraries for AWS access.
 - Automate resource management.

6. Pricing Models:

- Pay-as-you-go, reserved, and spot instances.
- AWS Free Tier for new users.

Page 2: AWS Advanced Topics

1.	Auto	Scaling	and	Load	Bala	ncina:

- Auto Scaling: Automatically adjust instance count.
- ELB: Distribute traffic across instances.

2. CloudFormation:

- Infrastructure as Code (IaC).
- Define resources in templates (YAML/JSON).

3. Monitoring and Logging:

- CloudWatch: Monitor metrics and logs.
- CloudTrail: Track user and API activity.

4. Security Best Practices:

- Use IAM roles, MFA, and least privilege.
- Encrypt data in transit and at rest.

5. Databases:

- DynamoDB: NoSQL database.
- Aurora: High-performance relational DB.

6. DevOps on AWS:

- CodePipeline: CI/CD workflows.

- CodeBuild & CodeDeploy for automation.

7. Certification Paths:

- Foundational: AWS Cloud Practitioner.
- Associate: Solutions Architect, Developer, SysOps.
- Professional & Specialty: Advanced certifications.