AWS TASKS

1. Host a static website in AWS S3. Configure permissions, enable static website hosting, and test accessibility

2. Launch an EC2 instance manually, install a web server (e.g., Apache) and host a simple website - hello world

3. Create an IAM Console User and setup Multifactor Authentication

4. Create an IAM user with programmatic access and login using AWS CLI

5. Create an IAM role for EC2 instances with S3 access, attach to ec2 instance. Copy file from s3 bucket to ec2 instance

6. Attach IAM policies to IAM groups. Add users into group and test it.

7. Create a custom IAM policy. Add it to IAM user. User should able to access only particular   s3 bucket.

8. Configure IAM roles for cross- account access. I can able check billings of other AWS Accounts.

9. Set up cross-region replication for the S3 bucket.

10. Create Life cycle rule for s3. To move data from standard to IA

11. Create AWS KMS (Key Management Service) keys for encryption. Encrypt s3

12. Set up an RDS database instance (MySQL) manually. Connect the EC2 instance to the RDS database.

13. Set up CloudWatch alarms for EC2 instances to monitor CPU utilization. Configure SNS (Simple Notification Service) for alert notifications

14. Configure a CloudFront distribution for caching and serving content globally. Integrate CloudFront with an S3 origin

15. Implement AWS WAF (Web Application Firewall) rules to protect web applications hosted on EC2 instances. In ec2 install Apache. And block traffic from source using WAF.

16. Implement AWS CloudTrail for auditing and tracking API activity. Create trails and analyze log data in CloudTrail

17. Set up AWS Lambda functions triggered by S3 events

18. Set up AWS Budgets for cost monitoring and management.

19. Set up Application Load Balancers (ALB) with path-based routing rules.

20. Configure Network Load Balancers (NLB) with target groups and listener rules

21. Enable Logs for ELB and store it in s3 bucket. Access it using Athena

22. Create Classic Load Balancers (CLB) and attach EC2 instances to them.

23. Create Lambda functions in different programming languages (e.g., Python). Add corn job and ec2 instance should start when lambda triggers.

24. Implement auto-scaling policies for EC2 instances based on CPU utilization.

25. Register a new domain name using GoDaddy. Install Apache on ec2. Create a simple routing policy.

26. Add SSL to domain.

27. Set up VPCs with public and private subnets.

28. Set up an Amazon Transit Gateway in your AWS account and attach two VPCs to it

29. Set up a bastion host in an AWS VPC and configure SSH access to it for secure remote access to instances within the private subnet.

30. Create a VPC endpoint and access the s3 service without the internet in a private server.

31. Enable VPC flow logs and store it in the s3 bucket.

32. Data Migration from GCP to AWS Account.