AWS Cloud Practitioner Test Tips

- Economies of Scale, Stop Guessing Capacity, Go Global in Minutes
- Many organizations will use the Route 53 Domain Name System (DNS) service or Global Accelerator IPv6 Anycasting to load balance packets across multiple regions
- You need to recover an RDS database in less than 5 minutes use multiple Availability Zones
- (2 out of 5) Customers that spin up an EC2 instance are responsible for managing:
  - The guest operating system (including updates and security patches)
    Any application software or utilities installed by the customer on the instances
    Configuration of the AWS-provided firewall (called a security group) on each instance
- Keep from having predicted demand higher than actual demand (waste) Use the elasticity proposition of auto scaling
- https://aws.amazon.com/architecture/well-architected/ EXAM: choose 2 out of 5 pillars
- The Operational Excellence pillar includes the ability to support development and run workloads effectively, gain insight into their operation, and continuously improve supporting processes and procedures to delivery business value.
- Design Principles: Perform operations as code, Make frequent, small, reversible changes
- Look at the AWS License Manager main page!
- With AWS Budgets, set custom budgets to track your costs and usage, and respond quickly to alerts received from email or SNS notifications if you exceed your threshold.
- When one company acquires another company, and they now have 2 accounts – use an Organization
- IEM = Infrastructure Event Management Enterprise plan customer for upcoming planned service use case
- Enterprise Plan uses Designated Technical Account Manager (TAM))(NOT CONCIERGE) to provide consultative architectural and operational guidance delivered in the context of your applications and use-cases to help you achieve the greatest value from AWS
- Review the CAF perspectives
- AWS CAF Governance perspective capabilities:
  - Program and project management (NOT PRODUCT MANAGEMENT!)
  - Benefits management
  - Risk management
  - Cloud financial management
  - Application portfolio management
  - Data governance
  - Data curation
- CAF Goals:
  - Envision - Identify and prioritize transformation opportunities in line with your strategic objectives.
  - **Align - Identify capability gaps and cross-organizational dependencies. (exam)**
  - Launch - Deliver pilots in production and demonstrate incremental business value.
  - Scale - Expand pilots and business value to desired scale
- If they have a Business, Enterprise On-Ramp, or Enterprise Support plan, they can also use the AWS Support API to access AWS Support and Trusted Advisor operations programmatically

- Trusted Advisor - Identify 2 checks out of 5. For example Security checks, Cost Optimizing, Performance
- Need to deliver compliance reports from third-party auditors who have tested and verified that AWS is compliant? Artifact (know agreements and reports)
- You can use a network address translation (NAT) gateway to enable instances in a private subnet to connect to the internet or other AWS services, but prevent the internet from initiating a connection with those instances.
- Two ways to connect VPC over the Internet – NOT Direct Connect!
- CloudFront is a content delivery (distribution) network (CDN) service designed for high performance, security, and developer suitability
- Need to load balance across two regions? Route 53 and Global Accelerator
- Expect 2 out of 5 about NACLS:
  - Allow stateless traffic filtering to all inbound or outbound traffic on a VPC subnet
  - Apply to all instances and appliances in the associated subnet
  - Typically contain ordered rules to permit or deny traffic:
  - Rules are processed with a numbered order
- Security group (SG) firewalls apply to individual Elastic Compute Cloud (EC2) instances in a subnet
- AWS WAF is an HTTP/S deep packet inspection firewall that defends against common web exploits can affect availability, compromise security, or consume excessive resources
- EC2 action anomalies = CloudTrail
- Security events = CloudTrail
- Use security Hub to generate a unified report across all security services
- AWS CloudFormation empowers customers to model, deploy, and manage AWS and third-party resources by handling infrastructure as code
- AWS Batch for running hundreds of thousands of batch and machine learning (ML) computing jobs without installing software or servers.
- you want to store a file at AWS? EBS and S3 – those 2 out of 5
- You can use the AWS Database Migration Service to easily migrate or replicate your existing databases to Amazon RDS - with RDS for Oracle for instance
- they refer to DynamoDB in the questions as a non-relational database
- An office in a particular region doesn't have reliable Internet connectivity = Snowball
- Call SNS notifications with AWS Step Functions (AWS Step Functions lets you orchestrate multiple AWS services into serverless workflows so that you can build and update applications quickly.)
- You need to search through large amounts of S3 bucket data = Amazon Athena
- Amazon Polly is for deploying high-quality, natural-sounding human voices in dozens of languages
- Amazon Rekognition is for analyzing millions of images, streaming, and stored videos within seconds, and augment human review tasks with artificial intelligence (AI)
- Amazon Athena is the correct analytics solution leveraging ML – not QuickSight
- QuickSight is the correct business intelligence (BI) solution answer without ML

- AWS OpsWorks is a configuration management service that helps you configure and operate applications in a cloud enterprise by using Puppet or Chef.
- An iOS app developer wants to move their code to the AWS Cloud, which service or resource would best facilitate this effort? A: AWS CodeCommit