

CSE314

Enroll. No. - _____

[ET]

END SEMESTER EXAMINATION : April - May, 2023

Cloud Computing Practitioner

Time :3.00 Hrs

Maximum Marks :60

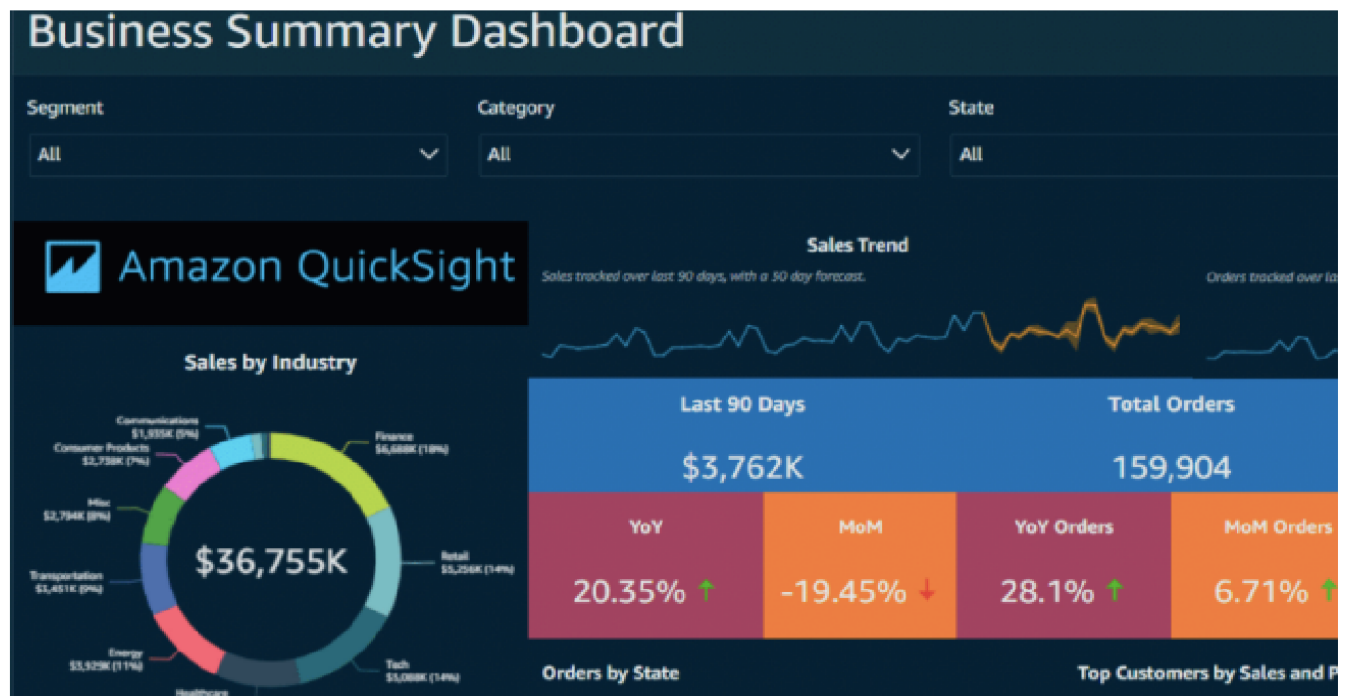
Note: Attempt questions from all sections as directed.

Attempt questions from all sections as directed

Section - A : Attempt any Four questions out of Five . Each question carries 06 marks. [24 Marks]

Q1.

A business analyst would like to move away from creating complex database queries and static spreadsheets when generating regular reports for high-level management. They would like to publish insightful, graphically appealing reports with interactive dashboards. Explain how AWS will be useful to that business analyst.



- Q2. (a) (6)
- An organization runs several EC2 instances inside a VPC using three subnets, one for Development, one for Test, and one for Production. The Security team has some concerns about the VPC configuration. It requires restricting communication across the EC2 instances using Security Groups. Please suggest. (4)
- (b) Amazon Redshift service is a data warehouse and will not meet the requirements of interactive dashboards and dynamic means of delivering reports. Comment on it. (2)
- Q3. (a) (3)
- Your company wants to move an existing Oracle database to the AWS Cloud. Focus on the services that can help the company facilitate this move? (3)
- (b) What do you understand by service oriented architecture (SOA)? How does it support cloud computing? (3)
- Q4. Your AWS CloudTrail logs to identify actions and services that have been used by an IAM entity (user or role) within your specified date range. Refine an entity's permissions by attaching it to an IAM user or role. (6)
- Q5. (a) (4)
- A company wants to utilize AWS storage. For them, low storage cost is paramount. The data is rarely retrieved and a data retrieval time of 13-14 hours is acceptable for them. Recommend the best storage option to use. (6)
- (b) TCO analysis of equipment purchases may help reduce the expenditures for maintenance and parts over the lives of the investments. Comment. (2)

Section – B : Attempt any two questions out of three. Each question carries 10marks. [20 Marks]

- Q6. (a) (5)
- At AWS, we want you to be successful. Our Support plans are designed to give you the right mix of tools and access to expertise so that you can be successful with AWS while optimizing performance, managing risk, and keeping costs under control. Elaborate on the Basic Support that is included for all AWS customers.
- (b) If my company has given the business case a go and the result says we should adopt the cloud. That

said, technical wise from top to bottom, what are the key successful elements to consider the pros and cons?

(5)

Q7. (a)

(5)

Explain IAM roles and how do they work? Also focus on role-based access control (RBAC)?

(b)



Either organisation can focus to build or deploy the application or can maintain them with the server processing.

AWS provides a better solution for such kind of scenario with reduced cost and efficient manageable services. Elaborate the statement.

Q8. (a)

(5)

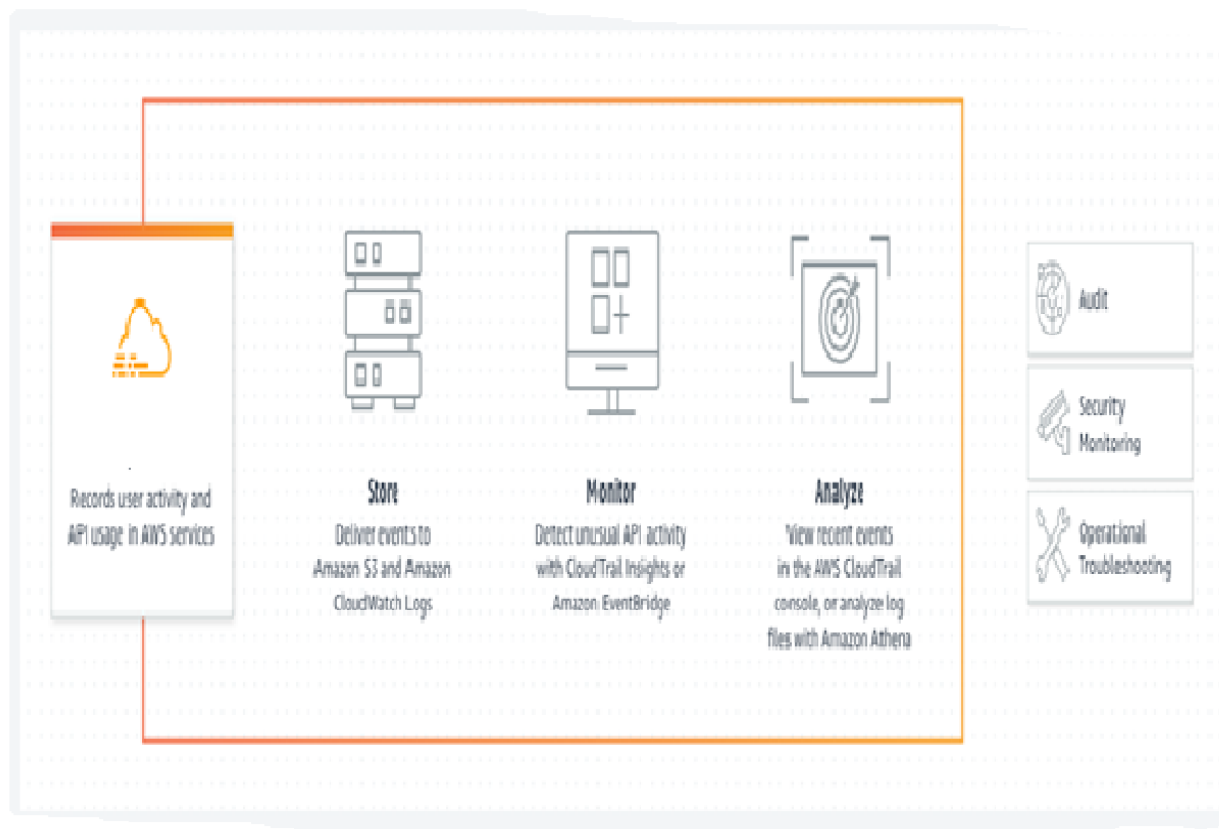
(5)

What is ELB (Elastic Load Balancing) and how does it affect VPC? Is there any limit to the number of VPCs, subnets, gateways, VPNs that you can create?

(b)

An AWS service that captures and consolidates user activity and API usage across AWS Regions and accounts on a single, centrally controlled platform. Discuss with a suitable case study

(5)



[16 Marks]

Q9. (a)

(8)

EXL- Automotive manufacturers need to connect millions of disparate machines (including legacy systems with different protocols) and analyze massive amounts of data to uncover insights, develop automation tools, and predict potential issues such as equipment failure or product defects.

Comment on Increase manufacturing efficiency with AWS.

Also, the company wants to move an existing Oracle database to the AWS Cloud.

(b)

Experian, a leading credit bureau and household name in credit monitoring, recently turned its focus toward giving business customers cutting-edge tools for understanding and managing financial data. The company needed a powerful computing platform with high-performance storage that could scale to hundreds of thousands of users while delivering an exceptional customer experience.

How Experian can maintain its lead in the market? Which tool can be used to forecast AWS spending?

State the security laws which can be implemented to secure data in a cloud and whether they are essential or not.

(8)