# AWS DEVELOPMENT\_TEST-2 SET-1

NAME:

DATE:

		MAX. MARKS: 20M	
ROLL NO: Instructions:	.1		
If anyone strikes out an be considered. And prov	answer or provides an answer outsi vide an answer in the format of UP carefully and give the answer. Each	ide the designated box, those answers will PER-CASE letter.	llnot
First Read the question	*****	tong question has two marks.	
function reads data from ob	ojects in Amazon an S3 event n	nat is written in Python. The Lams data to an Amazon DynamoDB tanotification when an object is crea	ible.
likely cause of this issue?		e DynamoDB table. What is the MC	
D. D DD +-bla requires	a global secondary index (GSI)	to support writes	
G. The Lambda function does	s not have IAM permissions to w	vrite to DynamoDB.	
D. The DynamoDB table is n	not running in the same Availabil	ity Zone as the Lambda function.	
2. A developer wants to inse	ert a record into an Amazon Dy	ynamoDB table as soon as a new file	e is
added to an Amazon S3 buc	cket. Which set of steps would	be necessary to achieve this? (	)
intoDynamoDB.  B. Configure an S3 event to C. Create an AWS Lambda DynamoDB.	invoke an AWS Lambda function function that will poll the S3	or the S3 bucket and then insert the recion that inserts records into Dynamo bucket and then insert the records and insert the records into Dynamo	DB into
	to use native AWS services. A	AWS. Leadership wants to rewrite developer needs to create a solution	the
storing employee contact d	the search and retrieval of each	otos for use with the new applicate employee's individual details and h	tion
Which solution will enable t resolution photos using AW  A. Encode each employee's c information in an Amazon Dy  B. Store each employee's con with the object keys for the p  C. Use Cognito user pools to  D. Store employee contact in	the search and retrieval of each and a search and retrieval of each and a search and photos used to the search and photos used to the search and a search and a search and a search a search and a search and a search a search a search and a search a search a search and a search and a search and a search and a search a search and a search a search a search and a search a search and a search a search and a search a	employee's individual details and h  (B)  sing Base64. Store the  DynamoDB table along  ory in a fully managed method.	tion igh-
which solution will enable to resolution photos using AW.  A. Encode each employee's conformation in an Amazon Dy.  B. Store each employee's conformation with the object keys for the p.  C. Use Cognito user pools to D. Store employee contact in stored in Amazon Elastic File.  4. Which of the following and	the search and retrieval of each and a search and retrieval of each and a search and retrieval of each and a search and a search a search and a search a sea	employee's individual details and he (B) sing Base64. Store the DynamoDB table along ory in a fully managed method. B instance with the photos	tion igh-
which solution will enable to resolution photos using AW.  A. Encode each employee's conformation in an Amazon Dy.  B. Store each employee's conwith the object keys for the p.  C. Use Cognito user pools to D. Store employee contact in stored in Amazon Elastic File.  4. Which of the following and A. Security B. Increased states.	the search and retrieval of each as APIs?  contact information and photos use ynamoDB table using a sort key nact information in an Amazon I photos stored in Amazon S3.  complement the employee director formation in an Amazon RDS D as System (Amazon EFS)  re benefits of migrating to the affiretention. Consider a sail.	employee's individual details and he Basing Base64. Store the DynamoDB table along ory in a fully managed method. OB instance with the photos  AWS Cloud?	tion igh-
which solution will enable to resolution photos using AW.  A. Encode each employee's conformation in an Amazon Dy.  B. Store each employee's conwith the object keys for the p.  C. Use Cognito user pools to D. Store employee contact in stored in Amazon Elastic File	the search and retrieval of each as APIs?  contact information and photos use ynamoDB table using a sort key nact information in an Amazon I photos stored in Amazon S3.  complement the employee director formation in an Amazon RDS D as System (Amazon EFS)  re benefits of migrating to the affiretention. Consider a sail.	employee's individual details and he (B) sing Base64. Store the DynamoDB table along ory in a fully managed method. B instance with the photos	tion. igh-

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### Instructions:

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- be considered. And provide the answer. Each long question has two marks.
- 1. A company is planning to deploy an application on AWS behind an Elastic Load Balancer.
- 2 The application uses an HTTP/HTTPS listener and must access the client IP addresses. Which load-balancing solution meets these requirements? (A)
  - A. Use an Application Load Balancer and the X-Forwarded-For headers.
  - B. Use a Network Load Balancer (NLB). Enable proxy protocol support on the NLB and the target application.
  - C. Use an Application Load Balancer. Register the targets by the instance ID.
  - D. Use a Network Load Balancer and the X-Forwarded-For headers.
- 2. A developer is building an application that uses Amazon DynamoDB. The developer wants to retrieve specific items from the database with a single API call. Which DynamoDB API call will meet these requirements with the MINIMUM impact on the database? (B)

A. PutItem

B. GetItem

C. Scan

D. Query

3. A developer is designing an AWS Lambda function that creates temporary files that are less than 10 MB during invocation. The temporary files will be accessed and modified multiple times during invocation. The developer has no need to save or retrieve these files in the future. Where should the temporary files be stored?

A. /tmp directory

B. /etc/.ssh/tmp

C. /etc/user/

D. S3

2 4. A company is developing a mobile app that needs a high-performance NoSQL database. Which AWS services could the company use for this database? (Choose two.) (D, E) C. Amazon Redshift

A. Amazon Aurora

B. Amazon RDS

DAmazon Document DB (with MongoDB compatibility) E. Amazon DynamoDB

- 5.A developer is migrating some features from a legacy monolithic application to use AWS Lambda functions instead. The application currently stores data in an Amazon Aurora DB cluster that runs in private subnets in a VPC. The AWS account has one VPC deployed. The Lambda functions and the DB cluster are deployed in the same AWS Region in the same AWS account. The developer needs to ensure that the Lambda functions can securely access the DB cluster without crossing the public internet. Which solution will meet these requirements? (
  - A. Configure the DB cluster's public access setting to Yes.
  - B. Configure an Amazon RDS database proxy for the Lambda functions.
  - C. Configure a NAT gateway and a security group for the Lambda functions.
  - D. Configure the VPC, subnets, and a security group for the Lambda functions.

26. A developer has written the following IAM policy to provide access to an Amazo	n S3 bucket:
"yersion": "2012-10-17", "statement": {	
"Effect": "Allow", "Action": ( "s3:GetObject", "s3:PutObject"	
1. "Resource": "arn:awa::3:::DOC-EXAMPLE-BUCKET/+" }.	
"Effect": "Deay",	
"Action": "s2:"", "Resource": "arm:aws:s3:::DOC-EXAMPLE-BUCRET/secrets."	
Which access does the policy allow re	garding the
s3: Get Object and s3: Put Object actions?	(D)
A. Access on all buckets except the "DOC-EXAMPLE-BUCKET" bucket	S Fig. 1 co.
B. Access on all buckets that start with "DOC-EXAMPLE-BUCKET" except the "DOC BUCKET/secrets" bucket	
C. Access on all objects in the "DOC-EXAMPLE-BUCKET" bucket along with access actions for objects in the "DOC-EXAMPLE-BUCKET" bucket that start with "secrets"	to all S3
D. Access on all objects in the "DOC-EXAMPLE-BUCKET" bucket except on objects	that start with
"secrets	
7. A developer is creating a mobile app that calls a backend service by using an Ar Gateway REST API. For integration testing during the development phase, the de to simulate different backend responses without invoking the backend service. Which solution will meet these requirements with the LEAST operational overheat A. Create an AWS Lambda function. Use API Gateway proxy integration to return constant HTTP responses.  B. Create an Amazon EC2 instance that serves the backend REST API by using an AW CloudFormation template.	ad?())
C. Customize the API Gateway stage to select a response type based on the request.	
D. Use a request mapping template to select the mock integration response.	
8. Which component of the AWS global infrastructure is made up of discrete data centres that have redundant power, networking, and connectivity?  A. AWS Region B. Availability Zone C. Edge location D. Local Zone	one or more
9. A company wants to migrate a critical application to AWS. The application has runtime. The application is invoked by changes in data or by shifts in system state company needs a compute solution that maximizes operational efficiency and min the cost of running the application. Which AWS solution should the company use meet these requirements? A. EC2 B. S3 C. Lambda D. Cloud9	imizes
10. A company needs to establish a connection between two VPCs. The VPCs are in AWS Regions. The company wants to use the existing infrastructure of the connection. Which AWS service or feature can be used to establish this connection. A. Load Balancer B. Autoscaling C. VPN Connection D. VPC Peering	VPCs for this
11. Which of the following are advantages of the AWS Cloud? (Choose two.) A. AWS management of user-owned infrastructure	B,C)
B. Ability to quickly change required capacity C. High economies of scale D. Increased deployment time to market E. Increased fixed expenses	

## AWS DEVELOPMENT\_TEST-2 SET-3

NAME:	DATE:
ROLL NO:	MAX.

### Instructions:

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First Read the question carefully and give the answer. Each long question has 2 marks.

AX. MARKS: 20M

- In Set-3 2 question have 3 marks.
- 1. A developer is creating a mobile app that calls a backend service by using an Amazon API 1. A developer is creating a most of testing during the development phase, the developer wants to simulate different backend responses without invoking the backend service. Which solution will meet these requirements with the LEAST operational overhead?
  - A. Create an AWS Lambda function. Use API Gateway proxy integration to return constant HTTP responses.
  - B. Create an Amazon EC2 instance that serves the backend REST API by using an AWS CloudFormation template.
  - C. Customize the API Gateway stage to select a response type based on the request.
  - D. Use a request mapping template to select the mock integration response.
- 2. A developer needs to migrate an online retail application to AWS to handle an anticipated increase in traffic. The application currently runs on two servers: one server for the web application and another server for the database. The web server renders webpages and manages session state in memory. The database server hosts a MySQL database that contains order details. When traffic to the application is heavy, the memory usage for the web server approaches 100% and the application slows down considerably. The developer has found that most of the memory increase and performance decrease is related to the load of managing additional user sessions. For the web server migration, the developer will use Amazon EC2 instances with an Auto Scaling Application Balancer. group Which additional set of changes should the developer make to the application to improve the application's performance?

A. Use an EC2 instance to host the MySQL database. Store the session data and the application data in the MySQL database.

- B. Use Amazon ElastiCache for Memcached to store and manage the session data. Use an Amazon RDS for MySQL DB instance to store the application data.
- C. Use Amazon ElastiCache for Memcached to store and manage the session data and the application
- D. Use the EC2 instance store to manage the session data. Use an Amazon RDS for MySQL DB instance to store the application data

3. Which Ar	nazon S3 stora	ge class has the lowe	st cost?	(A	)
A. Glacier	B.S3	C. S3 Buckets	D. Elastic Block Storage		
4. Which da	tabase is ideal	for large organizatio	ns and enterprises?	( D	)
A. Aurora	B. 1	RDS C. MySC	D. PostgreSQL		

5. What is the command to get the status of the Git	repository?
A. pwd B. Git pwd	D. Git -status
6. A company is storing sonsitive austamed date in	an Amazon S3 bucket. The company wants to
protect the data from accidental deletion or overw	riting. Which S3 feature should the company
use to meet these requirements?	
A. S3 Lifecycle rules B. S3 Versioning	C. S3 bucket policies D. KMS
7. What does the HTTP status code 500 signify?	(()
A. Bad Request B. Unauthorized C. Internal	Server Error D. Not Found
8. A company has deployed infrastructure on AWS	. A development team wants to create an
AWS Lambda function that will retrieve data from	an Amazon Aurora database. The Amazon
Aurora database is in a private subnet in company	's VPC. The VPC is named VPC1. The data is
relational in nature. The Lambda function needs t	access the data securely.
Which solution will meet these requirements?	(A)
A. Create the Lambda function. Configure VPC1 accounts	ess for the function. Attach a security group
named SG1 to both the Lambda function and the data	base. Configure the security group inbound and
outbound rules to allow TCP traffic on Port 3306.	
B. Create and launch a Lambda function in a new pub	olic subnet that is in a new VPC named VPC2.
Create a peering connection between VPC1 and VPC	2.
C. Create the Lambda function. Configure VPC1 acco	ess for the function. Assign a security group
named SG1 to the Lambda function. Assign a second	
an inbound rule to SG1 to allow TCP traffic from Por	t 3306.
D. Export the data from the Aurora database to Amaz	on S3. Create and launch a Lambda function in
VPC1. Configure the Lambda function query the data	from Amazon S3.
9. A developer has written an AWS Lambda functi	
developer wants to ensure that the function return	
How can the developer improve the function's per	formance? ( L )
	ncrease the function's memory.
C. Increase the function's reserved concurrency. D. I	ncrease the function's timeout.
10. What does HTTP status code 503 represent?	(E)
A. No Service B. Unauthorize C. Not Found D. S	
11. Which port number does Oracle Database use	
	079 E. 8080 F. 3389
12. Which port number is used by SNMP?	( <del>f</del> )
A. 156 B.157 C. 158 D.	159 E.160 F.161
13. What is the port for DHCP client?	(E)
A. 61 B.66 C.65 D.6	6 E.68 F.69
14. What is apipa in networking?	( < )
	c Private IP Assessing
	ed Public IP Addressing
15. What is loopback IP?	( ^ )
A. 127.0. 0.1 B. 169.0.01 C.127.10.256.255	D. 129.0.0.1 E. 128.26.0.3
16. What is the port number of FTP data channe	
A. 28 B. 27 C. 24 D.	
	23 E. 20 F. 21
17. Which of the following is a fully managed	23 E. 20 F. 21

# AWS DEVELOPMENT\_TEST-2

NAME: ROLL NO:

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#### Instructions:

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- 1. A developer creates a VPC named VPC-A that has public and private subnets. The developer also creates an Amazon RDS database inside the private subnet of VPC-A. To perform some queries, the developer creates an AWS Lambda function in the default VPC. The Lambda function has code to access the RDS database. When the Lambda function runs, an error message indicates that the function cannot connect to the RDS database. How can the developer solve this problem? B)
- A. Modify the RDS security group. Add a rule to allow traffic from all the ports from the VPC CIDR block.
- B. Redeploy the Lambda function in the same subnet as the RDS instance. Ensure that the RDS security group allows traffic from the Lambda function.
- C. Create a security group for the Lambda function. Add a new rule in the RDS security group to allow traffic from the new Lambda security group.
- D. Create an IAM role. Attach a policy that allows access to the RDS database. Attach the role to the Lambda function.
- 2. An application uses Lambda functions to extract metadata from files uploaded to an S3 bucket; the metadata is stored in Amazon DynamoDB. The application starts behaving unexpectedly, and the developer wants to examine the logs of the Lambda function code for errors. Based on this system configuration, where would the developer find the logs? A. Amazon S3 B. AWS CloudTrail

C. CloudWatch

D. DynamoDB

- 3. A developer is using an AWS Lambda function to generate avatars for profile pictures that are uploaded to an Amazon S3 bucket. The Lambda function is automatically invoked for profile pictures that are saved under the /original/ S3 prefix. The developer notices that some pictures cause the Lambda function to time out. The developer wants to implement a fallback mechanism function picture.
  - A. Set the image resize Lambda function as a destination of the avatar generator Lambda function for
  - B. Create an Amazon Simple Queue Service (Amazon SQS) queue. Set the SQS queue as a destination with an on-failure condition for the avatar generator Lambda function. Configure the image resize Lambda function to poll from the SQS queue.
  - C. Create an AWS Step Functions state machine that invokes the avatar generator Lambda function and uses the image resize Lambda function as a fallback. Create an Amazon Event Bridge rule that matches events from the S3 bucket to invoke the state machine.
  - D. Create an Amazon Simple Notification Service (Amazon SNS) topic. Set the SNS topic as a destination with an on-failure condition for the avatar generator Lambda function. Subscribe the

4. A developer wants to store information about movies. Each movie has a title, release year, and genre. The movie information also can include additional properties about the cast and production crew. This additional information is inconsistent across movies. For example, one movie might have an assistant director, and another movie might have an animal trainer. The developer needs to implement a solution to support the following use cases: For a given title and release year, get all details about the movie that has that title and release year. For a given title, get all details about all movies that have that title. For a given genre, get all year. For a given title, get all details about all movies that have configuration will meet these details about all movies in that genre. Which data store configuration will meet these requirements?

A. Create an Amazon DynamoDB table. Configure the table with a primary key that consists of the title as the partition key and the release year as the sort of key. Create a global secondary index that uses the genre as the partition key and the title as the sort of key.

B. Create an Amazon DynamoDB table. Configure the table with a primary key that consists of the genre as the partition key and the release year as the sort of key. Create a global secondary index that uses the title as the partition key.

C. On an Amazon RDS DB instance, create a table that contains columns for title, release year, and genre. Configure the title as the primary key.

D. On an Amazon RDS DB instance, create a table where the primary key is the title, and all other data is encoded into JSON format as one additional column

d demomic website?	4)	)
5. By using which service, we can host static and dynamic website?  A. Electic Peopletalk B. Electic compute cloud C. S3 D. Load balancer		
A Flastic Beanstalk B. Elastic compute cloud	(A	)
6. how many availabilities zone we have in AWS cloud?		
B 3 C.6 D.100	(B	)
7. AWS Elastic Beanstalk is a service that manages web infrastructure.  D None of the above	, ,	
A False B. True C. true or false	D	)
8. AWS DynamoDB DB stores data in?		
A EC2 R Images C. DynamoDB D. Documents E. DynamoDB Claster	(B	1
o In serverless computing, I do not have to think about	(-	,
A Code B. Servers C. Storage D. Controll E. 33	18	1
to calculate the price in AWS?	1	,
AWS Coloulator B AWS Cost explorer C. Pricing Calculator D. Fileing Dashound	1 2	,
11. Which command we used for comparing the content of two lines one by line?	(B	)
A Compare B diff C. differ D. uptime E. solt	-	
12 I want to know the current user data, then which command I must use?	(	)
A. Pwd B. Whoami C. None of the above D. Whopwd E. Finger F. W	0	
13. What is the command for move data into a file?	(B	)
D on E None of the above E Cal		
	(B	)
14. What port number is used by PostgreSQL?  A 3306 B 5432 C. 3389 D.1541 E. 1521 F. 6379		
A 3306 B. 5432 C. 5567	(D	)
15. What does the HTTP status code 404 represent?		
A. Uhauthorized B. Forbidden C. Site can't reach D. Not found E. Internal Server Erro	at	
16. A developer is creating a Ruby application and needs to automate the deployment		
scaling, and management of an environment without requiring knowledge of the		1
underlying infrastructure. Which service would best accomplish this task?	(	-)
A. Code Deploy B. EC2 C. Elastic beanstalk D. S3 E. CloudFormation F. IAM		