Cloud Computing

Mid Term 2024

	Naje.	in Midterm Exam 158/SC Level: Closed Camputio	41 9	Date: April 2024 Time: 45 Minutes Examiner(s): Dr. Fa	
	Melion Na.			ية ومتطابق مع الكشوقات):	
	LAULDAN		of cloud computing (*) Short Description	KIST definition) with a short d	escription.
1	-	Same Variethose			11.11
3					
01.4	THE REAL PROPERTY.				
7 15	The state of the s	property of the last			
V	What is the name	billion objects for this feature?	or 1000 years. Howeve	seeing the following (No calcu er, one object may be corrupt	
ij	he SLO value a	this feature sm	ild be	39 95 3 10 95 3 11 95 E	12 9s 13 9s 14 9s
bl	This storage at	rvice allows you	to access your data q	uicldy, except for 52.56 minu	tes ventur
N	Vhat is the name	of this feature?	Consider concess of the con-		
H	Vhat is the SLA	value of this team	tte (miles menta) most-al-		
Q.	3) Complete the	fallowing			
1	An object stor	n object storage service from AWS			
2	A file storage	service from AV	VS		
3	A block storag	ge service from /	AWS		
4	Max object siz	e in AWS objec	t storage service	WE	
5	A service that	can host a stati	website easily on A	nize the EC2 instance type	
ő	What will you	use to get recor	numericanions to opin	mize the EC2 instance type	
			e used an a bout volu		
į	es acres she full	term for each	of the following abbr	eviations.	
	IAM	1	A	U.S. Contraction	
	AMI	Α	M	1	
4	5) Draw a diagr		host server prage services	ation. Your diagram should	and a storage service GOOD LUCK, Dr. Fa

Q1) State 5 fundamental attributes of cloud computing (NIST definition) with a short description

#	Attribute	Short Description
1	On-demand self-service	No human intervention needed to get resources
2	Broad network access	Access from anywhere
3	Resource pooling	Provider shares resources to customers
4	Rapid elasticity	Get more resources quickly as needed
5	Measured service	Pay only for what you consume

- Q2) A cloud provider provides a storage service guaranteeing the following (No calculator needed to answer):
- a) You can store 1 billion objects for 1000 years. However, one object may be corrupted after this period.

What is the name of this feature?	Amazon S3
What is the SLA value of this feature (how many nines)?	99,99
The SLO value of this feature could be	11 9s

b) This storage service allows you to access your data quickly, except for 52.56 minutes yearly.

What is the name of this feature?	High availability
What is the SLA value of this feature (how many nines)?	99,99

Q3) Complete the following:

1	An object storage service from AWS	Amazon S3
2	A file storage service from AWS	Amazon Elastic File System (EFS)
3	A block storage service from AWS	Amazon Elastic Block Store (EBS)
4	Max object size in AWS object storage service	5 TB
5	A service that can host a static website easily on AWS	Amazon S3 Static Website Hosting
6	What will you use to get recommendations to optimize the EC2 instance type	AWS Compute Optimizer
7	A block storage that cannot be used as a boot volume in AWS	Amazon Elastic Block Store (EBS)

Q4) Write the full term for each of the following abbreviations.

1	IAM	Identity and	Access	Management
2	AMI	Amazon	Machine	Image

- Q5) Draw a diagram to show Amazon EC2 Virtualization. Your diagram should show
- Hypervisor and the AWS host server
- CPU, memory, and two storage services
- A network that allows the VM to connect to the Internet, AWS services, and a storage service

