Home / My courses	/ Cloud Applications Architecture / Course / Exam 12.01.2022
	Wednesday 40 January 2000 C 05 DM
	Wednesday, 12 January 2022, 6:35 PM Finished
	Wednesday, 12 January 2022, 6:54 PM
	18 mins 49 secs
	7.00/10.00
Grade	7.00 out of 10.00 (70 %)
Question 1	
Partially correct	
Mark 0.20 out of 0.40	
In a cloud environm	nent horizontal scaling means that:
it modifies exis	sting VMs
it is compatible	e with any application architecture
it requires load	d balancers
it can scale inf	rinitely •
Your answer is part	ially correct.
You have correctly	selected 1.
The correct answer	
it can scale infinitel	
it requires load bala	ancers
Question 2 Correct	
Mark 0.40 out of 0.40	
Which of the follow	ing represent HTTP safe methods?
POST	
PATCH	
	✓
✓ HEAD	✓
Your answer is corr	
The correct answer	s are:
GET,	
HEAD	

,, 0.0	_xa x x y. x x	
Question 3		
Correct		
Mark 0.40 out of 0.40		
Why is loose coupling beneficial?		
 Facilitates better maintainability and extensibility 		~
Improves network performance		
Usually makes the system more scalable		
 We should prefer strong coupling instead 		
Your answer is correct.		
The correct answer is:		
Facilitates better maintainability and extensibility		
Question 4		
Correct		
Mark 0.40 out of 0.40		
Which of the following characteristics is improved by designing	and building applications in cloud environments?	
Control		
Availability		_
Availability		•
		~
Security		~
Your answer is correct.		
The correct answers are: Scalability,		
Security,		
Availability		

Question 5	
Correct	
Mark 0.40 out of 0.40	
The 12 Factor App is a(n)	
 Framework for building microservices 	
Authentication application	
O	
 Methodology for building scalable and maintainable software 	✓
Your answer is correct.	
The correct answer is:	
Methodology for building scalable and maintainable software	
Question 6	
Partially correct	
Mark 0.10 out of 0.40	
Military of the fellowing are protected used by the internet	
Which of the following are protocols used by the internet?	
OSPF	
BGP	
✓ IP	~
□ PIP	
RIP	
Your answer is partially correct.	
You have correctly selected 1.	
The correct answers are:	
IP,	
BGP,	
RIP,	
OSPF	

Question 7	
Partially correct	
Mark 0.27 out of 0.40	
Which are some common triggers for serverless functions?	
□ HTTP	
	×
Queue messages	~
File uploads to serverless storage	~
Your answer is partially correct.	
You have correctly selected 2.	
The correct answers are:	
File uploads to serverless storage,	
Queue messages,	
HTTP	
Question 8 Correct	
Mark 0.40 out of 0.40	
Mark 0.40 Oct 01 0.40	
OpenID Connect is a(n):	
○ SSO protocol	
Inter-service communication protocol	
 Authorization protocol built on top of OAuth 2.0 	
Authentication protocol built on top of OAuth 2.0	~
Your answer is correct.	
The correct answer is:	
Authentication protocol built on top of OAuth 2.0	

2/22, 6:54 PM	Exam 12.01.2022: Attempt review	
Question 9 Correct		
Mark 0.40 out of 0.40		
Monitoring of the virtual host is useful to ensure: knowing your current price to pay if provider respects contracts (SLA) knowing the size of the database knowing when to scale (up/down, in/out)		~
Your answer is correct. The correct answers are: if provider respects contracts (SLA), knowing when to scale (up/down, in/out)		
Question 10		
Correct		
Mark 0.40 out of 0.40		
FaaS stands for: Functions as a service Functionality as a service Frontend as a service		~
Your answer is correct. The correct answer is: Functions as a service		

Question 11 Partially correct Mark 0.20 out of 0.40	
Cloud network security can be enforced by:	
□ network access control lists □	~
	×
domain name servers	
✓ firewalls	~
Your answer is partially correct.	
You have selected too many options.	
The correct answers are: firewalls,	
network access control lists	
Question 12	
Partially correct Mark 0.20 out of 0.40	
When can a service be considered serverless?	
When you don't have to provision capacity	~
When the service can scale down to 0	
When you don't have to setup any infrastructure	~
When you pay only for what you use	
Your answer is partially correct.	
You have correctly selected 2.	
The correct answers are: When you don't have to setup any infrastructure,	
When you don't have to provision capacity,	
When you pay only for what you use,	
When the service can scale down to 0	

Question 13		
Partially correct		
Mark 0.30 out of 0.40		
In a cloud environment the role of a load balancer is to:		
A/P tecting		
balance traffic across multiple targets	•	~
monitor the health of target resources	•	~
serve as a single point of entry	•	~
Your answer is partially correct.		
You have correctly selected 3.		
The correct answers are: balance traffic across multiple targets,		
monitor the health of target resources,		
serve as a single point of entry,		
A/B testing		
Question 14		
Correct		
Mark 0.40 out of 0.40		
Which of the following is the availability formula used in cloud e	environments?	
availability=uptime/uptime+downtime		
 availability=uptime/downtime 		
availability=uptime/(downtime+uptime)	•	~
 availability=uptime/downtime+uptime 		
Your answer is correct.		
The correct answer is:		
availability=uptime/(downtime+uptime)		

Question 15	
Correct	
Mark 0.40 out of 0.40	
Which of the following is not an Integration Service for cloud?	
which of the following is not all integration service for cloud:	
o queues	
shared memory	~
 publish/subscribe services 	
workflow services	
API Gateways	
Your answer is correct.	
The correct answer is:	
shared memory	
10	
Question 16 Incorrect	
Mark 0.00 out of 0.40	
Which of the following approaches has the ideal coupling?	
O Separated services communicating through a message qu	eue
Separated services communicating through REST interfact	es
 Services deployed together as a monolith 	
 Separated services communicating through RPC 	×
Your answer is incorrect.	
The correct answer is:	
Separated services communicating through a message queue	

12/22, 0:54 PM	Exam 12.01.2022: Attempt review	
Question 17		
Partially correct		
Mark 0.27 out of 0.40		
Which of the following represent possible type of consistency	in cloud database models?	
no consistency		
strong consistency	•	•
eventual consistency	✓	P
tunable consistency		
Your answer is partially correct.		
You have correctly selected 2.		
The correct answers are:		
strong consistency,		
eventual consistency,		
tunable consistency		
tanable consistency		
Question 18		
Correct		
Mark 0.40 out of 0.40		
Which of the following is not an application security process/te	echnique?	
input validation		
encryption		
authenticationauthorization		
runtime checking	✓	•
Your answer is correct.		
The correct answer is: runtime checking		

Question 19	
Correct Mark 0.40 out of 0.40	
Which are two effective measures to improve infrastructure security?	
☐ Implement OAuth 2.0	
Reduce the attack surface as much as possible	~
■ MFA for the users	
✓ MFA for the development team	~
Your answer is correct.	
The correct answers are: MFA for the development team,	
Reduce the attack surface as much as possible	
Question 20	
Partially correct Mark 0.27 out of 0.40	
Which of the following represent types of load balancers?	
☑ HTTP	~
✓ DNS	•
▼ TCP/UDP	~
	×
Your answer is partially correct.	
You have selected too many options. The correct answers are:	
HTTP,	
TCP/UDP,	
DNS	

Question 21 Partially correct Mark 0.20 out of 0.40
Which is true for a graph database model? □ nodes contain properties (key-value pairs) □ contains nodes and relationships □ relationships are not directed
relationships can't contain properties
Your answer is partially correct. You have correctly selected 1. The correct answers are: contains nodes and relationships, nodes contain properties (key-value pairs)
Question 22 Partially correct Mark 0.20 out of 0.40
What are Docker volumes good for? allow us to control network isolation separately a way to persist data separate of the container's lifecycle needed since containers are ephemeral and isolated enable communication between multiple containers

Question 23	
Partially correct	
Mark 0.20 out of 0.40	
Asymmetric encryption is suited for:	
☐ High-performance compute	
☑ Digital signatures (identity verification)	~
Small payloads	
Large payloads	
Vous appuar is partially sorrect	
Your answer is partially correct.	
You have correctly selected 1.	
The correct answers are:	
Small payloads,	
Digital signatures (identity verification)	
Question 24	
Incorrect	
Mark 0.00 out of 0.40	
Which is the optimal approach for the least privilege principle when admin rights are required?	
Leverage features that enable just-in-time privileges	
○ Enable MFA	
Chable Wil A	
Relax the security policies when needed	
——————————————————————————————————————	
 Create a dedicated admin user used only when needed 	×
Your answer is incorrect.	
The correct answer is:	
Layaraga faaturaa that anabla jugt in tima privilagaa	
Leverage reatures that enable just-in-time privileges	
Leverage features that enable just-in-time privileges	

, , , , , , , , , , , , , , , , , , ,	
Question 25	
Partially correct	
Mark 0.20 out of 0.40	
Why are serverless databases usually NoSQL?	
☐ Because NoSQL databases are simpler (e.g. no ACID)	
Because NoSQL databases usually scale better	~
☐ Due to licensing limitations of SQL databases	
☐ Because data is non-relational in most cases anyway	
Your answer is partially correct.	
You have correctly selected 1.	
The correct answers are:	
Because NoSQL databases usually scale better, Because NoSQL databases are simpler (e.g. no ACID)	
■ Announcements	
Jump to	
	Resource Cleanup >