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Started on	Wednesday, 13 January 2021, 6:00 PM	
State	Finished	
Completed on	Wednesday, 13 January 2021, 6:20 PM	
Time taken	19 mins 39 secs	
Marks	8.80/10.00	
Grade	8.80 out of 10.00 (88 %)	
Question 1 Correct Mark 0.40 out of 0.40		
Related to users ac	ccess and permissions for infrastructure security, confidentiality enforces:	
 usage of password vaults 		
two factor authentication		
 saving data only in private clouds 		
Your answer is cor	rect.	
The correct answe	ris:	
encryption		

Question 2 Correct	
Mark 0.40 out of 0.40	
Which are the main cloud deployment models?	
Select one or more:	
✓ Private	✓
✓ Public	~
Community	✓
	~
Your answer is correct.	
The correct answers are: Public,	
Private,	
Community,	
Hybrid	
Question 3	
Correct Mark 0.40 out of 0.40	
Mark 6.40 dut di 6.40	
What are containers useful for?	
creating similar environments	~
quickly provisioning dependencies locally	~
keeping computer clean	✓
keeping dependencies isolated from the application	
Your answer is correct.	
The correct answers are:	
creating similar environments,	
quickly provisioning dependencies locally,	
keeping computer clean	

13/01/2021 Exam: Attempt review Question 4 Correct Mark 0.40 out of 0.40 Which of the following represent types of load balancers? ☑ TCP/UDP ✓ HTTP DNS NAT Your answer is correct. The correct answers are: HTTP, TCP/UDP, DNS Question 5 Correct Mark 0.40 out of 0.40 Which of the following is not an application security process/technique? input validation encryption runtime checking authentication

Your answer is correct.

authorization

The correct answer is: runtime checking

51/2021 Exam	i. Attempt review	
Question 6		
Correct		
Mark 0.40 out of 0.40		
	_	
Why would be concerned with the API design in the context of the cloud	1?	
 Because SaaS products, which are growing in popularity, usually of 	ifer APIs	
Because cloud systems work best with REST APIs		
 Because the microservices architecture is adopted more frequently 	·	
Because the microservices are intesture is adopted more requertal	,	
Your answer is correct.		
The correct answers are: Because SaaS products, which are growing in popularity, usually offer A	Die	
	ris,	
Because the microservices architecture is adopted more frequently		
Question 7		
Correct		
Mark 0.40 out of 0.40		
Monitoring of the virtual host is useful to ensure:		
C. Impulies your surrent miles to may		
knowing your current price to pay		
knowing the size of the database		
if provider respects contracts (SLA)	•	
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)		

3/01/2021	Exam: Attempt review	
Question 8		
Correct		
Mark 0.40 out of 0.40		
Packet mirroring in cloud network can be useful for:		
 boosting traffic performance 		
security analysis		~
anomaly detection		~
bug testing		~
Your answer is correct.		
The correct answers are: security analysis,		
bug testing,		
anomaly detection		
Question 9		
Correct		
Mark 0.40 out of 0.40		
OpenID Connect is a(n):		
○ SSO protocol		
 Authorization protocol built on top of OAuth 2.0 		
Inter-service communication protocol		
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

13/01/2021 Exam: Attempt review Question 10 Partially correct Mark 0.27 out of 0.40 Among the techniques for achieving high availability are: real time operating system floating/elastic IP multi availability zones multi region Your answer is partially correct. You have correctly selected 2. The correct answers are: multi region,

multi availability zones,

floating/elastic IP

Question 11 Correct

Mark 0.40 out of 0.40

Which are two effective measures to improve infrastructure security?

Reduce the attack surface as much as possible

■ Implement OAuth 2.0

MFA for the development team

MFA for the users

Your answer is correct.

The correct answers are: MFA for the development team,

Reduce the attack surface as much as possible

13/01/2021 Exam: Attempt review Question 12 Correct Mark 0.40 out of 0.40 Which of the following represent HTTP safe methods? HEAD ✓ GET PATCH POST Your answer is correct. The correct answers are: GET, HEAD Question 13 Partially correct Mark 0.20 out of 0.40 Why would you consider GraphQL instead of REST? Because it scales better Because it has built in introspection

https://moodle.cs.ubbcluj.ro/mod/quiz/review.php?attempt=229594&cmid=3090#question-240239-21

Because we can specify which fields to fetch leading to lower data usage

Because we can specify which fields to fetch leading to lower data usage,

Because it is easier to cache

Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

Because it has built in introspection

13/01/2021 Exam: Attempt review Question 14 Correct Mark 0.40 out of 0.40 OAuth 2.0 is a(n): User management service Multi-factor authentication service Authentication protocol Authorization protocol Your answer is correct. The correct answer is: Authorization protocol Question 15 Partially correct Mark 0.20 out of 0.40 Which two options of the following could be considered identity providers (IdP)? SaaS services Social platforms such as Facebook and Google Resource Servers Custom built OpenID Connect systems Your answer is partially correct. You have correctly selected 1. The correct answers are: Social platforms such as Facebook and Google, Custom built OpenID Connect systems

J1/2021	Exam: Attempt review	
Question 16		
Correct		
Mark 0.40 out of 0.40		
The relationship between TLS and SSL is:		
TLS is built on top of SSL		
TLS handles communication while SSL handles ic	identity verification	
They are not related		
TLS is the successor of SSL		~
Your answer is correct.		
The correct answer is:		
TLS is the successor of SSL		
Question 17		
Correct		
Mark 0.40 out of 0.40		
Which of the following is the availability formula used i	in cloud environments?	
availability=uptime/downtime+uptime		
availability=uptime/uptime+downtime		
availability=uptime/(downtime+uptime)		~
availability=uptime/downtime		
Your answer is correct.		
The correct answer is:		
availability=uptime/(downtime+uptime)		

Question 18 Partially correct Mark 0.13 out of 0.40	
Virtual CPUs might be:	
✓ logical core	~
first thread of each core	
□ timeshares of real CPU core	
physical core	
Your answer is partially correct.	
You have correctly selected 1. The correct answers are: timeshares of real CPU core,	
physical core,	
logical core	
Question 19	
Correct Mark 0.40 out of 0.40	
When can a service be considered serverless?	
When the service can scale down to 0	~
When you pay only for what you use	~
When you don't have to setup any infrastructure	~
When you don't have to provision capacity	~
Your answer is correct.	
The correct answers are:	
When you don't have to setup any infrastructure	
When you don't have to setup any infrastructure, When you don't have to provision capacity.	
When you don't have to provision capacity,	

13/01/2021 Exam: Attempt review Question 20 Correct Mark 0.40 out of 0.40 A resilient system is one that is: predictable self contained self managed self healing adaptive Your answer is correct. The correct answers are: adaptive, self healing, predictable Question 21 Partially correct Mark 0.20 out of 0.40 Asymmetric encryption is suited for: Small payloads Digital signatures (identity verification) High-performance compute Large payloads

Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

Small payloads,

Digital signatures (identity verification)

•
Question 22 Correct
Mark 0.40 out of 0.40
In which case is a streaming service more suitable than a queue?
When we want to reduce the load on the clients
When we might want to replay previous messages/events
When we don't want to store messages
 When it's enough if the message is processed by at least one client
Your answer is correct.
The correct answer is: When we might want to replay previous messages/events
Question 23 Correct Mark 0.40 out of 0.40
Which is the optimal approach for the least privilege principle when admin rights are required? Create a dedicated admin user used only when needed
○ Enable MFA
Relax the security policies when needed
Leverage features that enable just-in-time privileges
Your answer is correct.
Your answer is correct. The correct answer is: Leverage features that enable just-in-time privileges

graph, columnar, document, key-value

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Time taken	19 mins 14 secs	
Marks	6.67/10.00	
Grade	6.67 out of 10.00 (67 %)	
Question 1		
Correct		
Mark 0.40 out of 0.40		
The role of the hyp	ervisor is to:	
☑ translate and limit instructions ✓		
manage users		
✓ create and manage guest machines ✓		~
encrypt disk		
Your answer is corre	ect.	
The correct answer	s are:	
create and manage	guest machines,	
translate and limit i	instructions	

·	
Question 2	
Incorrect	
Mark 0.00 out of 0.40	
In a cloud environment horizontal scaling means that:	
it can scale infinitely	_
it can scale infinitely	·
it is compatible with any application architecture	
it requires load balancers	
it modifies existing VMs	×
Te mountes existing vivis	
Your answer is incorrect.	
The correct answers are:	
it can scale infinitely,	
it requires load balancers	
Question 3	
Partially correct	
Mark 0.20 out of 0.40	
Which are two effective measures to improve infrastructure security?	
which are two effective measures to improve initiastructure security:	
MFA for the users	×
Reduce the attack surface as much as possible	
MFA for the development team	~
With tor the development team	-
☑ Implement OAuth 2.0	×
Implement OAuth 2.0	×
☑ Implement OAuth 2.0	×
	×
Your answer is partially correct.	×
Your answer is partially correct. You have selected too many options.	×
Your answer is partially correct. You have selected too many options. The correct answers are:	×
Your answer is partially correct. You have selected too many options. The correct answers are: MFA for the development team,	×
Your answer is partially correct. You have selected too many options. The correct answers are:	×

13.01.2021	Exam: Attempt review
Question 4	
Correct Mark 0.40 out of 0.40	
Mark 0.40 Out of 0.40	
Which of the following is not an Integration Service for cloud?	
API Gateways	
 publish/subscribe services 	
shared memory	~
workflow services	
queues	
Your answer is correct.	
The correct answer is: shared memory	
shared memory	
Question 5	
Correct	
Mark 0.40 out of 0.40	
Why would be concerned with the API design in the context of the	cloud?
☐ Because cloud systems work best with REST APIs	
Because the microservices architecture is adopted more frequence	ently 🗸
 Because SaaS products, which are growing in popularity, usual 	
because saas products, which are growing in popularity, usual	iy olici Ai is
Your answer is correct.	
The correct answers are:	
The correct unswers are.	

Because SaaS products, which are growing in popularity, usually offer APIs,

Because the microservices architecture is adopted more frequently

13.01.2021 Exam: Attempt review Question **6** Correct Mark 0.40 out of 0.40 When choosing cloud services, the price plan can be: Tiered Transaction-based Fixed Dynamic Your answer is correct. The correct answers are: Fixed, Tiered, Dynamic Question **7** Partially correct Mark 0.27 out of 0.40 What characterizes resource-oriented APIs? Select one or more: Fits better for public APIs ☐ The behavior of the system is primarily driven by the data Usually leads to a concise set of operations Usually leads to strong coupling Your answer is partially correct. You have correctly selected 2. The correct answers are: Usually leads to a concise set of operations,

The behavior of the system is primarily driven by the data,

Fits better for public APIs

13.01.2021 Exam: Attempt review Question 8Correct Mark 0.40 out of 0.40 Which of the following is the availability formula used in cloud environments? availability=uptime/(downtime+uptime) availability=uptime/downtime+uptime availability=uptime/downtime availability=uptime/uptime+downtime Your answer is correct. The correct answer is: availability=uptime/(downtime+uptime) Question ${\bf 9}$ Partially correct Mark 0.13 out of 0.40 Which of the following components are not managed by the cloud provider in a Infrastructure as a Service model? Application Operating System Storage Data Networking Your answer is partially correct. You have correctly selected 2.

You have correctly selected 2. The correct answers are: Application,

Data,

Operating System

13.01.2021 Exam: Attempt review Question 10 Correct Mark 0.40 out of 0.40 A resilient system is one that is: self healing self managed adaptive self contained predictable Your answer is correct. The correct answers are: adaptive, self healing, predictable Question 11 Incorrect Mark 0.00 out of 0.40 What is the shared responsibility model? A framework for finding out the optimal security approach A model describing the responsibility within a development team A model describing the responsibility of the cloud provider and the customer with regards to security

A requirement for the ISO 27001 standard

Your answer is incorrect.
The correct answer is:

A model describing the responsibility of the cloud provider and the customer with regards to security

Question 12 Partially correct Mark 0.20 out of 0.40	
Which of the following are HTTP idempotent methods?	
✓ POST	×
☑ DELETE	~
☐ HEAD	
✓ PUT	✓
☑ GET	✓
Your answer is partially correct.	
You have correctly selected 3.	
The correct answers are:	
GET,	
HEAD,	
DELETE,	
PUT	
Question 13 Correct	
Mark 0.40 out of 0.40	
Why is loose coupling beneficial?	
Facilitates better maintainability and extensibility	~
Usually makes the system more scalable	
Improves network performance	
We should prefer strong coupling instead	
Your answer is correct.	
The correct answer is:	
Facilitates better maintainability and extensibility	

U1.2021	Adm. Altemptionew
Question 14	
Incorrect	
Mark 0.00 out of 0.40	
The 12 Factor App is a(n)	
Methodology for building scalable and maintainable software	
Authentication application	
Framework for building microservices	×
Your answer is incorrect.	
The correct answer is:	
Methodology for building scalable and maintainable software	
Question 15	
Correct	
Mark 0.40 out of 0.40	
Which of the following are protocols used by the internet?	
✓ OSPF	~
CSI I	
■ BGP	✓
	~
✓ RIP	✓
Your answer is correct.	
The correct answers are:	
IP,	
BGP,	
RIP,	
OSPF	

Question 16 Correct Mark 0.40 out of 0.40	
When can a service be considered serverless?	
When you don't have to provision capacity	~
When you don't have to setup any infrastructure	~
When the service can scale down to 0	~
When you pay only for what you use	~
Your answer is correct.	
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 17	
Correct	
Mark 0.40 out of 0.40	
What are CDNs good for?	
optimize costs	~
	~
reduce resources	
improve load times	~
Your answer is correct.	
The correct answers are: improve load times,	
optimize costs,	
improve security	

Question 18	
Partially correct Mark 0.27 out of 0.40	
Which of the following characteristics is improved by designing and building applications in cloud environments?	
✓ Scalability	~
Security Security Cost Efficiency Availability Productivity	~
✓ Control	×
Availability	~
Your answer is partially correct. You have selected too many options. The correct answers are: Scalability, Security Security Cost Efficiency Availability Productivity, Availability	
Question 19 Correct Mark 0.40 out of 0.40	
When a literature of the Control Control of DEST2	
Why would you consider GraphQL instead of REST?	
Because it has built in introspection	•
■ Because it is easier to cache ■ Because it scales better	
Because we can specify which fields to fetch leading to lower data usage	~
Your answer is correct.	
The correct answers are: Because we can specify which fields to fetch leading to lower data usage,	
Because it has built in introspection	

01.2021	Exam: Attempt review	
Question 20		
Correct		
Mark 0.40 out of 0.40		
Infrastructure security is concerned with:		
application user		
cloud user		
operating system user		
database user		
Your answer is correct.		
The correct answer is:		
cloud user		
Question 21		
Incorrect		
Mark 0.00 out of 0.40		
Which is the correct order complexity wise in decreas	sing order for NoSQL database models?	
graph, document, columnar, key-value		
key-value, document, columnar, graph		
graph, columnar, document, key-value		
Odocument, columnar, key-value, graph		
Your answer is incorrect.		
The correct answer is:		

graph, columnar, document, key-value

13.01.2021 Exam: Attempt review Question 22 Incorrect Mark 0.00 out of 0.40 From the kubernetes terminology, we can say that a pod: can span multiple nodes is managed by the operating system runs one or more containers is the smallest deployment unit Your answer is incorrect. The correct answers are: is the smallest deployment unit, runs one or more containers Question 23

Incorrect Mark 0.00 out of 0.40

Which are some common concerns when working with queues?

The message is lost if there are no consumers

Messages might be out of order

■ The same message might be delivered multiple times

The consumers might get overloaded

Your answer is incorrect.

The correct answers are:

Messages might be out of order,

The same message might be delivered multiple times

021 Exam: Attempt review	
estion 24	
rect	
rk 0.40 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	
Relax the security policies when needed	
Enable MFA	
Create a dedicated admin user used only when needed	
our answer is correct.	
he correct answer is:	
everage features that enable just-in-time privileges	
estion 25	
rect	
k 0.40 out of 0.40	
Why are serverless databases usually NoSQL?	
B N COLLEGE WATER	
Because NoSQL databases usually scale better	
Because NoSQL databases are simpler (e.g. no ACID)	
☐ Due to licensing limitations of SQL databases	
Because data is non-relational in most cases anyway	
our answer is correct.	
he correct answers are:	
ecause NoSQL databases usually scale better, Because NoSQL databases are simpler (e.g. no ACID)	
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Started on	Wednesday, 13 January 2021, 6:00 PM Finished	
	Wednesday, 13 January 2021, 6:18 PM	
	1 18 mins 31 secs	
	s 8.27/10.00	
	8.27 out of 10.00 (83 %)	
Question 1		
Mark 0.40 out of 0.40		
Which of the follow	wing is the availability formula used in cloud environments?	
្រ availability=uរុ	uptime/downtime	
availability=up	uptime/(downtime+uptime)	~
o availability=uរុ	uptime/uptime+downtime	
o availability=u្	uptime/downtime+uptime	
Your answer is corr	rect.	
The correct answer availability=uptime	er is: e/(downtime+uptime)	
Question 2		
orrect		
Mark 0.40 out of 0.40		
Which of the follow	wing are protocols used by the internet?	
✓ IP		~
✓ OSPF		~
☑ BGP		~
RIP		~
Your answer is corr	rect.	
The correct answer	ers are:	
IP,		
BGP,		
RIP,		
OSPF		

13/01/2021 Exam: Attempt review Question ${\bf 3}$ Correct Mark 0.40 out of 0.40 When choosing cloud services, the price plan can be: Tiered Fixed Dynamic Transaction-based Your answer is correct. The correct answers are: Fixed, Tiered, Dynamic Question **4** Correct Mark 0.40 out of 0.40 Cloud network security can be enforced by:

□ domain name servers
 ☑ firewalls
 ☑ network access control lists
 □ gateways

Your answer is correct.
The correct answers are:

firewalls,

network access control lists

13/01/2021 Exam: Attempt review Question **5** Correct Mark 0.40 out of 0.40 Which are the main cloud deployment models? Select one or more: Private Public Hybrid Community Your answer is correct. The correct answers are: Public, Private, Community, Hybrid Question **6** Incorrect Mark 0.00 out of 0.40 Which are some of the concerns when adopting a serverless architecture? Your system might not be able to handle big workloads You might not have enough control ■ It will likely be more expensive than laaS ■ Your system might overload other dependencies Your answer is incorrect.

The correct answers are:

You might not have enough control,

Your system might overload other dependencies

13/01/2021 Exam: Attempt review Question **7** Correct Mark 0.40 out of 0.40 In a cloud environment horizontal scaling means that: it requires load balancers it is compatible with any application architecture it modifies existing VMs it can scale infinitely Your answer is correct. The correct answers are: it can scale infinitely, it requires load balancers Question 8 Partially correct Mark 0.27 out of 0.40 Which of the following represent possible type of consistency in cloud database models? tunable consistency no consistency strong consistency eventual consistency Your answer is partially correct. You have correctly selected 2. The correct answers are: strong consistency, eventual consistency, tunable consistency

13/01/2021 Exam: Attempt review Question **9** Correct Mark 0.40 out of 0.40 Which are the 2 main API styles? Graph Procedure Oriented REST Entity Oriented Your answer is correct. The correct answers are: Procedure Oriented, **Entity Oriented** Question 10 Correct Mark 0.40 out of 0.40 Which of the following represent HTTP safe methods? POST HEAD PATCH ✓ GET Your answer is correct.

The correct answers are:

GET,

HEAD

Question 11	
Correct	
Mark 0.40 out of 0.40	
Which are two effective measures to improve infrastructure security?	
✓ MFA for the users	×
EL MEA Coults In the country of	
✓ MFA for the development team	•
☑ Implement OAuth 2.0	×
Reduce the attack surface as much as possible	~
Your answer is correct.	
The correct answers are:	
MFA for the development team,	
Reduce the attack surface as much as possible	
. 12	
Question 12	
Incorrect	
Mark 0.00 out of 0.40	
Monitoring of the virtual host is useful to ensure:	
Monitoring of the Wittan Host is ascial to crisare.	
if provider respects contracts (SLA)	
knowing your current price to pay	×
knowing the size of the database	×
Niowing the size of the database	
knowing when to scale (up/down, in/out)	~
Your answer is incorrect.	
The correct answers are:	
if provider respects contracts (SLA),	
knowing when to scale (up/down, in/out)	

13/01/2021 Exam: Attempt review Question 13 Correct Mark 0.40 out of 0.40 Packet mirroring in cloud network can be useful for: boosting traffic performance anomaly detection security analysis bug testing Your answer is correct. The correct answers are: security analysis, bug testing, anomaly detection Question 14 Correct Mark 0.40 out of 0.40 In a cloud environment, vertical scalability means that: it doesn't require additional components it is compatible only with stateless applications it doesn't require restarting the service

Your answer is correct.

The correct answers are:

it doesn't require additional components,

it might be the only approach for certain components (RDBMS)

it might be the only approach for certain components (RDBMS)

13/01/2021 Exam: Attempt review

Question 15
Correct
Mark 0.40 out of 0.40

A resilient system is one that is:

predictable
self healing
self contained
adaptive
self managed

Your answer is correct.
The correct answers are: adaptive,

Question 16

Correct

Mark 0.40 out of 0.40

self healing, predictable

Which of the following represent types of load balancers?

✓ HTTP

▼ TCP/UDP

☑ DNS ✓

NAT

Your answer is correct.

The correct answers are:

HTTP,

TCP/UDP,

DNS

13/01/2021 Exam: Attempt review

Question 17
Correct
Mark 0.40 out of 0.40

Why is loose coupling beneficial?

Usually makes the system more scalable
Improves network performance
We should prefer strong coupling instead

Facilitates better maintainability and extensibility

Your answer is correct.
The correct answer is:
Facilitates better maintainability and extensibility

Which of the following are HTTP idempotent methods?

POST

PUT

✓ DELETE

✓ HEAD

✓ GET

Your answer is correct.

The correct answers are:

GET,

HEAD,

DELETE,

PUT

Question 19	
Correct	
Mark 0.40 out of 0.40	
OAuth 2.0 is a(n):	
Authorization protocol	•
Multi-factor authentication service	
Authentication protocol	
User management service	
Oser management service	
Your answer is correct.	
The correct answer is:	
Authorization protocol	
Question 20	
Correct	
Mark 0.40 out of 0.40	
When can a service be considered serverless?	
When you pay only for what you use	~
When the service can scale down to 0	~
When you don't have to setup any infrastructure	~
When you don't have to setup any limustracture	
When you don't have to provision capacity	~
Your answer is correct.	
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	

13/01/2021 Exam: Attempt review Question 21 Incorrect Mark 0.00 out of 0.40 Which is the correct order for disaster recovery strategies from cheapest to the most expensive? warm standby, hot site, pilot light, backup and restore × backup and restore, warm standby, hot site, pilot light backup and restore, pilot light, warm standby, hot site warm standby, hot site, backup and restore, pilot light Your answer is incorrect. The correct answer is: backup and restore, pilot light, warm standby, hot site Question 22 Partially correct Mark 0.20 out of 0.40 Asymmetric encryption is suited for: ■ High-performance compute Large payloads Small payloads Digital signatures (identity verification) Your answer is partially correct. You have correctly selected 1.

The correct answers are:

Small payloads,

Digital signatures (identity verification)

13/01/2021 Exam: Attempt review Question 23 Correct Mark 0.40 out of 0.40 Which is true for a graph database model? nodes contain properties (key-value pairs) relationships can't contain properties contains nodes and relationships relationships are not directed Your answer is correct. The correct answers are: contains nodes and relationships, nodes contain properties (key-value pairs) Question 24 Partially correct Mark 0.20 out of 0.40 Why are serverless databases usually NoSQL? Because NoSQL databases usually scale better Because NoSQL databases are simpler (e.g. no ACID) 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)

13/01/2021 Exam: Attempt review

Question 25
Correct
Mark 0.40 out of 0.40

Which is the optimal approach for the least privilege principle when admin rights are required?

Create a dedicated admin user used only when needed

Enable MFA

Relax the security policies when needed

Leverage features that enable just-in-time privileges

Your answer is correct.
The correct answer is:
Leverage features that enable just-in-time privileges

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Completed on	Wednesday, 13 January 2021, 6:19 PM	
	8.60/10.00	
Grade	8.60 out of 10.00 (86 %)	
Question 1		
Partially correct		
Mark 0.13 out of 0.40		
creating simila	ndencies isolated from the application ar environments	× •
Your answer is parti You have correctly so The correct answers creating similar env quickly provisioning	selected 2. s are: vironments, g dependencies locally,	

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Question 2	
Correct	
Mark 0.40 out of 0.40	
When choosing cloud services, the price plan can be:	
☑ Tiered	✓
☐ Transaction-based	
Fixed	✓
Dynamic	✓
Your answer is correct.	
The correct answers are:	
Fixed, Tiered,	
Dynamic	
2)	
Question 3 Partially correct	
Mark 0.27 out of 0.40	
Which of the following represent possible type of consi	istency in cloud database models?
tunable consistency	
no consistency	
strong consistency	✓
eventual consistency	✓
Your answer is partially correct.	
You have correctly selected 2.	
The correct answers are:	
strong consistency,	
eventual consistency,	
tunable consistency	

Question 4	
Correct	
Mark 0.40 out of 0.40	
OpenID Connect is a(n):	
Openio Connect is a(n).	
Inter-service communication protocol	
○ SSO protocol	
 Authentication protocol built on top of OAuth 2.0 	
Authorization 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	
_	
Question 5	
Correct	
Mark 0.40 out of 0.40	
Which two options of the following could be considered identity providers (IdP)?	
Which two options of the following could be considered identity providers (idi):	
Resource Servers	
☑ Custom built OpenID Connect systems	
Social platforms such as Facebook and Google	
Social platforms such as Facebook and Google	
☐ SaaS services	
Your answer is correct.	
Tour diswer is correct.	
The service to a surface and	
The correct answers are:	
Social platforms such as Facebook and Google,	

1/13/2021	Exam: Attempt review
Question 6 Correct Mark 0.40 out of 0.40	
Which of the following is not an application security process/techni	que?
encryption	
authorization	
runtime checking	✓
authentication	
o input validation	
Your answer is correct. The correct answer is: runtime checking	
Question 7 Correct Mark 0.40 out of 0.40	
In a cloud environment, vertical scalability means that:	
it is compatible only with stateless applications	
it might be the only approach for certain components (RDBMS	>
it doesn't require restarting the service	
it doesn't require additional components	•
Your answer is correct.	
The correct answers are: it doesn't require additional components,	
it might be the only approach for certain components (RDBMS)	

·	
Question 8	
Correct	
Mark 0.40 out of 0.40	
The role of the hypervisor is to:	
encrypt disk	
translate and limit instructions	•
manage users	
create and manage guest machines	~
Your answer is correct.	
The correct answers are:	
create and manage guest machines,	
translate and limit instructions	
0	
Question 9	
Correct	
Mark 0.40 out of 0.40	
The 12 Factor App is a(n)	
Authentication application	
 Methodology for building scalable and maintainable software 	~
Framework for building microservices	
Framework for building microservices	
Your answer is correct.	
The correct answer is:	
Methodology for building scalable and maintainable software	

Question 10 Partially correct	
Mark 0.20 out of 0.40	
Main 0.20 Out of 0.40	
Infrastructure as a Service is best used for:	
when ultra-high performance is a must	
when you don't want to be in control	
first migration stages (lift and shift)	~
when you need vendor lock-in	
Your answer is partially correct.	
You have correctly selected 1.	
The correct answers are: first migration stages (lift and shift),	
when ultra-high performance is a must	
Question 11 Correct Mark 0.40 out of 0.40	
When can a service be considered serverless?	
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	✓
Your answer is correct.	
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 12	
Partially correct	
Mark 0.20 out of 0.40	
Which are the 2 main API styles?	
✓ REST	×
☐ Graph	
Entity Oriented	~
Endty Official	
☐ Procedure Oriented	
Your answer is partially correct.	
You have correctly selected 1.	
The correct answers are:	
Procedure Oriented,	
Entity Oriented	
Question 13	
Question 13 Correct	
Correct	
Correct	
Correct	
Correct Mark 0.40 out of 0.40	
Correct Mark 0.40 out of 0.40	~
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage	~
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST?	~
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage Because it is easier to cache	~
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage	~
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage Because it is easier to cache	~
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage Because it is easier to cache Because it has built in introspection	~
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage Because it is easier to cache Because it has built in introspection	~
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage Because it is easier to cache Because it has built in introspection Because it scales better	*
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage Because it is easier to cache Because it has built in introspection Because it scales better	~
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage Because it is easier to cache Because it has built in introspection Because it scales better Your answer is correct. The correct answers are:	~
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage Because it is easier to cache Because it has built in introspection Because it scales better	*
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage Because it is easier to cache Because it has built in introspection Because it scales better Your answer is correct. The correct answers are:	*
Correct Mark 0.40 out of 0.40 Why would you consider GraphQL instead of REST? Because we can specify which fields to fetch leading to lower data usage Because it is easier to cache Because it has built in introspection Because it scales better Your answer is correct. The correct answers are: Because we can specify which fields to fetch leading to lower data usage,	~

0/2021	Exam. Attempt review
Question 14	
Correct	
Mark 0.40 out of 0.40	
The CAP theorem referres to:	
Capacity, Availability, Performance	
Consistency, Availability, Partition Tolerance	✓
Credibility, Accessibility, Partition Tolerance	
Credibility, Accessibility, Performance	
Your answer is correct.	
The correct answer is:	
Consistency, Availability, Partition Tolerance	
Question 15	
Partially correct	
Mark 0.20 out of 0.40	
Which are two effective measures to improve infrastructure security?	
✓ MFA for the users	×
MFA for the development team	
Implement OAuth 2.0	
Reduce the attack surface as much as possible	✓
Your answer is partially correct.	
You have correctly selected 1.	
The correct answers are:	
MFA for the development team,	
Reduce the attack surface as much as possible	

Question 16 Correct	
Mark 0.40 out of 0.40	
What makes a system highly available?	
☑ data	~
☑ network	~
☑ hardware	~
	~
Your answer is correct.	
The correct answers are: hardware,	
software,	
data,	
network	
Question 17 Correct	
Mark 0.40 out of 0.40	
Which of the following are protocols used by the internet?	
☑ IP	~
☑ BGP	~
	~
✓ OSPF	~
Your answer is correct.	
The correct answers are:	
The correct answers are: IP,	
The correct answers are: IP, BGP,	

Question 18 Correct	
Mark 0.40 out of 0.40	
What is the shared responsibility model? A framework for finding out the optimal security approach A model describing the responsibility within a development team A model describing the responsibility of the cloud provider and the customer with regards to security	~
A requirement for the ISO 27001 standard Your answer is correct. The correct answer is: A model describing the responsibility of the cloud provider and the customer with regards to security	
Question 19 Incorrect	
Mark 0.00 out of 0.40	
Which of the following approaches has the ideal coupling? Separated services communicating through REST interfaces Separated services communicating through RPC Services deployed together as a monolith Separated services communicating through a message queue	×
Your answer is incorrect. The correct answer is: Separated services communicating through a message queue	

Question 20	
Correct	
Mark 0.40 out of 0.40	
A resilient system is one that is:	
self managed	
✓ predictable	~
self contained	
✓ adaptive	•
self healing	~
Your answer is correct.	
The correct answers are:	
adaptive,	
self healing,	
predictable	
Question 21	
Correct	
Mark 0.40 out of 0.40	
Why are serverless databases usually NoSQL?	
Due to licensing limitations of SQL databases	
Because data is non-relational in most cases anyway	
Because NoSQL databases usually scale better	~
Because NoSQL databases are simpler (e.g. no ACID)	_
Because NoSQL databases are simpler (e.g. no ACID)	·
Your answer is correct.	
The correct answers are:	
Because NoSQL databases usually scale better, Because NoSQL databases are simpler (e.g. no ACID)	

Question 22 Correct	
Mark 0.40 out of 0.40	
In which case is a streaming service more suitable than a queue?	
 When it's enough if the message is processed by at least one client 	
When we don't want to store messages	
When we want to reduce the load on the clients	
When we might want to replay previous messages/events	
Your answer is correct. The correct answer is: When we might want to replay previous messages/events	
Question 23 Correct Mark 0.40 out of 0.40	
Which is the correct order for disaster recovery strategies from cheapest to the most expensive? ■ backup and restore, pilot light, warm standby, hot site ■ warm standby, hot site, backup and restore, pilot light ■ backup and restore, warm standby, hot site, pilot light ■ warm standby, hot site, pilot light, backup and restore	

Question 24	
Correct	
Mark 0.40 out of 0.40	
A key-value database offers:	
ultra low but not consistent latency	
✓ ultra low and consistent latency	•
high but not consistent throughput	
✓ high and consistent throughput	~
Your answer is correct.	
The correct answers are: ultra low and consistent latency,	
high and consistent throughput	
Question 25 Correct	
Mark 0.40 out of 0.40	
Which are some common concerns when working with queues?	
✓ The same message might be delivered multiple times	~
☐ The message is lost if there are no consumers	
The consumers might get overloaded	
✓ Messages might be out of order	~
Your answer is correct.	
The correct answers are: Messages might be out of order,	
The same message might be delivered multiple times	
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Started on	Wednesday, 13 January 2021, 6:00 PM	
State	Finished	
Completed on	Wednesday, 13 January 2021, 6:20 PM	
Time taken	20 mins	
Marks	6.00/10.00	
Grade	6.00 out of 10.00 (60 %)	
Question 1 Correct		
Mark 0.40 out of 0.40		
multi availabili	ues for achieving high availability are:	~
multi region		Y
real time oper	ating system	
✓ floating/elastic	c IP	~
Your answer is corre	ect.	
The correct answers multi region,	s are:	
multi availability zo	nes,	
floating/elastic IP		

Question 2	
Incorrect	
Mark 0.00 out of 0.40	
Monitoring of the virtual host is useful to ensure:	
knowing the size of the database	
knowing when to scale (up/down, in/out)	~
knowing your current price to pay	×
if provider respects contracts (SLA)	
II provider respects contracts (SEA)	
Your answer is incorrect.	
The correct answers are:	
if provider respects contracts (SLA),	
knowing when to scale (up/down, in/out)	
Question 3	
Correct	
Mark 0.40 out of 0.40	
Which three options of the following are valid OAuth 2.0 flows?	
✓ Owner Claim	×
✓ Pass-through Hash	×
rass-tillough nash	
Authorization Code with PKCE	~
Authorization Code	~
☑ Resource Owner Password Credentials	~
Your answer is correct.	
The correct answers are:	
Authorization (add	
Authorization Code, Resource Owner Password Credentials, Authorization Code with PKCE	

Question 4 Correct Mark 0.40 out of 0.40	
Which are the 2 main API styles?	
□ REST	
Entity Oriented	~
Procedure Oriented	~
☐ Graph	
Your answer is correct.	
The correct answers are: Procedure Oriented,	
Entity Oriented	
Question 5	
Correct Mark 0.40 out of 0.40	
Which of the following represent types of load balancers?	
✓ DNS	~
✓ HTTP	~
□ NAT	
☑ TCP/UDP	~
Your answer is correct.	
The correct answers are: HTTP,	
TCP/UDP,	
DNS	

3/2021	Exam: Attempt review
Question 6 Not answered	
Marked out of 0.40	
In a cloud environment horizontal scaling means that:	
it is compatible with any application architecture	
it modifies existing VMs	
it requires load balancers	
it can scale infinitely	
Your answer is incorrect.	
The correct answers are: it can scale infinitely,	
it requires load balancers	
Question 7 Correct	
Mark 0.40 out of 0.40	
Why is loose coupling beneficial?	
 We should prefer strong coupling instead 	
Facilitates better maintainability and extensibility	•
Improves network performance	
Usually makes the system more scalable	
Your answer is correct.	
The correct answer is: Facilitates better maintainability and extensibility	
•	

Question 8	
Correct Mark 0.40 out of 0.40	
What are CDNs good for?	
☐ reduce resources	
optimize costs	~
	~
improve load times	~
Your answer is correct.	
The correct answers are: improve load times,	
optimize costs,	
improve security	
Question 9	
Partially correct May 10 10 - 1 - 10 10 10	
Mark 0.10 out of 0.40	
What makes a system highly available?	
hardware	
☐ data	
✓ network	~
software	
Your answer is partially correct.	
You have correctly selected 1. The correct answers are: hardware,	
software,	
data,	
network	

Question 10 Incorrect
Mark 0.00 out of 0.40
The relationship between TLS and SSL is:
TLS handles communication while SSL handles identity verification
TLS is the successor of SSL
TLS is built on top of SSL
They are not related
Your answer is incorrect.
The correct answer is: TLS is the successor of SSL
Question 11
Correct Mark 0.40 out of 0.40
FaaS stands for:
Functions as a service
Frontend as a service
Functionality as a service
Your answer is correct
Your answer is correct.
The correct answer is: Functions as a service

Question 12 Correct Mark 0.40 out of 0.40	
Which of the following represent HTTP safe methods?	
☑ HEAD	~
	•
PATCH	
☑ GET	~
□ POST	
Your answer is correct.	
The correct answers are:	
GET, HEAD	
Question 13	
Correct	
Mark 0.40 out of 0.40	
Which of the following are protocols used by the internet?	
☑ BGP	~
☑ IP	
	~
☑ RIP	~
Your answer is correct.	
The correct answers are:	
IP, BGP,	
RIP,	
OSPF	

1/13/2021 Exam: Attempt review

0/2021	Exam. Attempt review
Question 14	
Correct	
Mark 0.40 out of 0.40	
What are containers useful for?	
 keeping dependencies isolated from the application 	
creating similar environments	✓
quickly provisioning dependencies locally	✓
keeping computer clean	✓
Your answer is correct.	
The correct answers are:	
creating similar environments,	
quickly provisioning dependencies locally,	
keeping computer clean	
Question 15	
Not answered	
Marked out of 0.40	
How are messages retrieved from queues in comparison to pub/su	ıb systems?
O 71 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
 The clients pull messages from both types of services 	
The client has the pull the messages from queues while pub/s	sub pushes the messages to the client
The client has the pull the messages from pub/sub while que	ues push the messages to the client
Both types of services push the message to the clients	
Vous annuarie in accurat	
Your answer is incorrect.	
The correct answer is: The client has the pull the messages from queues while pub/sub p	ushes the messages to the client
The energy has the pair the messages from queues write pub/sub p	ashes the messages to the cheft

Exam:	Attempt	review

1/13/20	021 Exam: Attempt review
	uestion 16 orrect
	ark 0.40 out of 0.40
١	Which of the following is the availability formula used in cloud environments?
	availability=uptime/downtime+uptime
	 availability=uptime/uptime+downtime
	availability=uptime/(downtime+uptime)
	 availability=uptime/downtime
`	Your answer is correct.
	The correct answer is:
Ć	availability=uptime/(downtime+uptime)
Ou	uestion 17
	correct
Ma	ark 0.00 out of 0.40
	The 12 Factor App is a(n)
	Methodology for building scalable and maintainable software
	 Authentication application
	 Framework for building microservices
,	Your answer is incorrect.
	The correct answer is:
I	Methodology for building scalable and maintainable software

Question 18 Correct Mark 0.40 out of 0.40	
The CAP theorem referres to:	
Consistency, Availability, Partition Tolerance	~
Capacity, Availability, Performance	
Credibility, Accessibility, Performance	
Credibility, Accessibility, Partition Tolerance	
Your answer is correct.	
The correct answer is: Consistency, Availability, Partition Tolerance	
consistency, rivalias may, randition following	
Question 19	
Partially correct Mark 0.30 out of 0.40	
Some of the load balancers features are:	
✓ caching	~
routing based on path	~
health checks	
✓ port mapping	~
Your answer is partially correct.	
You have correctly selected 3. The correct answers are:	
routing based on path,	
health checks,	
port mapping,	
caching	

1/13/2021 Exam: Attempt review

zozi Exam. Attempt review	
Question 20	
Partially correct	
Mark 0.20 out of 0.40	
Why would be concerned with the API design in the context of the cloud? Because SaaS products, which are growing in popularity, usually offer APIs Because the microservices architecture is adopted more frequently Because cloud systems work best with REST APIs Your answer is partially correct. You have correctly selected 1. The correct answers are: Because SaaS products, which are growing in popularity, usually offer APIs, Because the microservices architecture is adopted more frequently	*
Question 21 Correct Mark 0.40 out of 0.40	
Why are serverless databases usually NoSQL? Because data is non-relational in most cases anyway	
Because NoSQL databases usually scale better	✓
☐ Due to licensing limitations of SQL databases	
Because NoSQL databases are simpler (e.g. no ACID)	•
Your answer is correct.	
The correct answers are:	
Because NoSQL databases usually scale better, Because NoSQL databases are simpler (e.g. no AC	IID)

Your answer is incorrect.

The correct answer is: graph, columnar, document, key-value

ograph, document, columnar, key-value

key-value, document, columnar, graph

Question 24	
Partially correct	
Mark 0.20 out of 0.40	
Which is true for a graph database model?	
relationships are not directed	
contains nodes and relationships	✓
relationships can't contain properties	
nodes contain properties (key-value pairs)	
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 25	
Incorrect	
Mark 0.00 out of 0.40	
A key-value database offers:	
high and consistent throughput	✓
☑ ultra low but not consistent latency	×
high but not consistent throughput	
ultra low and consistent latency	
Your answer is incorrect.	
The correct answers are: ultra low and consistent latency,	
high and consistent throughput	
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