

CAMBRIDGE TECHNICALS LEVEL 3 (2016)

Examiners' report





Unit CC January 2019 series

Version 1

Contents

Introduction	3
Unit CC series overview	4
General examiner comments on the paper	4
Learning Outcome 1	4
Learning Outcome 2	
Learning Outcome 3	4
Learning Outcome 4	
Learning Outcome 5	4
Learning Outcome 6	
Learning Outcome 7	5
Appendix 1 Questions	6

Introduction

Our examiners' reports are produced to offer constructive feedback on candidates' performance in the examinations. They provide useful guidance for future candidates. The reports will include a general commentary on candidates' performance, identify technical aspects examined in the questions and highlight good performance and where performance could be improved. The reports will also explain aspects which caused difficulty and why the difficulties arose, whether through a lack of knowledge, poor examination technique, or any other identifiable and explainable reason.

Where overall performance on a question/question part was considered good, with no particular areas to highlight, these questions have not been included in the report. A full copy of the question paper can be downloaded from OCR.

Unit CC series overview

General examiner comments on the paper

There was a significant increase in entry for this Unit CC test in January 2019 (238 candidates) compared to January 2018 (0 candidates) and June 2018 (3 candidates). Therefore the value of comparing performance across series' is negligible. The breadth of knowledge to be covered meant that some learning outcomes (LOs) seemed to be better known and understood than others.

Based on statistical data for all the items in the test, candidates were most successful on questions targeting learning outcomes 6 and 7, closely followed by learning outcomes 3 and 2. Learning outcomes 1, 4 and 5 were the areas where candidates found marks hardest to access.

Learning Outcome 1 (17-21% weighting of the unit): questions 1-4, 6, 7, 41-49

This LO requires candidates to understand the characteristics and context of cloud technology and why it is used. Questions targeting this LO had a mixed response – with many candidates achieving the marks on questions 41 and 43 and very few being candidates on questions 4 and 45 which proved more challenging.

Learning Outcome 2 (14-17% weighting of the unit): questions 5, 9-12, 50, 52, 53, 55-58

LO2 requires candidates to understand the business benefits of cloud services. This was the fourth weakest LO in terms of candidates' performance. Candidates did well on items 5, 9, 12 and 55 but found 11 and 53 challenging.

Learning Outcome 3 (24-30% weighting of the unit): questions 13-25, 28, 40, 51, 59, 61, 62 and 63

LO3 requires candidates to understand the requirements of cloud services.

Scores on this LO were reasonably strong. Candidates did particularly well on items 17, 18 and 63 with 96% being successful on these three questions. Questions 15, 21 and 55 proved more challenging and only about 25% of candidates were successful here.

Learning Outcome 4 (8-10% weighting of the unit): questions 26, 27, 29, 30, 33 and 64

LO4 requires candidates to understand the features of cloud storage. The questions targeting this LO were not particularly well answered except for question 26 when 98% of candidates were correct.

Less than 20% of candidates achieved the correct mark for each of questions 33 and 64.

Learning Outcome 5 (13-16% weighting of the unit): questions 31, 32, 34, 36, 54, 60, 65, 66, 67 and 68

LO5 requires candidates to understand the deployment requirements for cloud-based services for organisations. This LO saw the weakest candidate performance across the paper. Three questions, 31, 65 and 66 saw performance at around 60% but questions 34, 36, 54, 60 and 67 showed a very low success rate – less than 30%

Learning Outcome 6: (3-4% weighting of the unit) questions 8, 35, and 69

LO6 requires candidates to know regulatory issues that impact cloud technology. Question 69 was the most successful with 85% of candidates achieving this mark. Performance achievement on both of the other questions targeted by this LO was around the 45% figure.

Learning Outcome 7 (4-5% weighting of the unit): questions 37, 38, 39 and 70

LO7 requires candidates to know about impact, risks and security issues related to cloud technology.

Candidates achieved the highest percentage of success on these questions although performance was mixed. Nearly all candidates achieving the mark on question 38 and relatively few on question 39.

Appendix 1 Questions

Question 1

Region:	US East	(Illinois)			
	#CPU	ECU	Memory (GiB)	Storage (GB)	Windows Usage
General P	Purpose P	rovision			
t2.n1	1	Variable	0.5	EBS Only	\$0.0062 per hour
t2.m1	1	Variable	1.5	EBS Only	\$0.0124 per hour
t2.m2	1	Variable	2.5	EBS Only	\$0.0232 per hour

A cloud technology provider lists its prices for data usage.

Which one of the following describes the pricing model above?

Α	On-demand
В	Chargeback
С	Pay-as-you-go
D	Pay-as-you-grow

Which one of the following statements best describes the term cloud bursting?			
Α	Cloud-based storage is not metered.]	
В	Bandwidth restrictions are lifted during peak times.]	
С	Cloud resources are allowed to break through their fixed limits.]	
D	Computing capacity can be extended from a private cloud to a public cloud.]	
		" [1]	
Qu	estion 3		
Ар	ublic cloud requires a router to operate.		
Sele	ect two statements that best describe the purpose of a router.		
А	To filter internet access.		
В	To prevent access to the internet.		
С	To translate hostnames to IP addresses.		
D	To provide security to the internal network devices.		
E	To send packets destined for non-LAN devices onward.		

	narketing agency specialises in social media advertising and hosts its systems on a hybrid cloud. y is cloud technology suitable for the marketing company?	
Sele	ect the two statements that apply.	
Α	The company has a global workforce.	
В	The company's staff levels may vary with demand.	
С	The company needs secure access on a 24/7 basis.	
D	The company's workforce are teleworkers.	[1]
Que	estion 5	
Rea	d the following statement and select if it is true or false.	
	ny cloud service models provide a simplified dashboard user interface. These can be customised for specific r groups.	
Tru	Je	
Fal	lse	
		[1]

Which two statements best describe the responsibility of network operation centre staff?				
Α	To monitor cloud resources.			
В	To manage user incidents and problems.			
С	To manage the ordering of network hardware.			
D	To manage CPU, RAM and secondary storage.			
Е	To allocate disk space and memory to users for application of chargeback costs.			
Qu	estion 7	[1]		
	lin is responsible for migrating large organisations to cloud technology. He has experience in networking and ualisation technology.			
What is the best job title for Nalin's role?				
Α	Cloud architect			
В	Cloud capacity planner			
С	Cloud service manager			
D	Support desk associate			

Regulatory Issue	Year of Introduction	No of Cases
#1	1988	3000
#2	2003	56
#3	1990	400
#4	2000	43

Phil is a cloud architect who is gaining an understanding of the impact of regulatory issues on the cloud-based provider that he works for. He has produced an analysis of the number of cases dealt with to date.

What regulatory issue is indicated by #2 in the table?

Α	Data Protection Act
В	Computer Misuse Act
С	Safe Harbour Scheme
D	Privacy and Electronic Communications Regulations

Rea	d the following statement and select if it is true or false .	
	n outsourcing and cloud technology, you do not own any of the servers. With cloud technology, you pay for it you use as and when you use it.	
Tru	Je]
Fal	lse	[1]
Que	estion 10	
	e is setting up a new business as a shipping agent. He would like to use cloud technology as it reduces his rt-up costs. Which factors should Mike consider when implementing cloud services?	
Sele	ect the two statements that apply.	
А	Ease of access	
В	Costs are variable	
С	Dependency on hardware	
D	Amount of computing resources	

Which one of the following features of cloud technology enhances business value?
A Capital expenditure is zero.
B The cost of operating the business is predictable.
C Data storage about production targets is reduced.
Backups of production data can be scheduled on a daily basis.
Question 12
Which one of the following statements best describes a business benefit of using cloud service models?

- All cloud service models reduce the speed of deployment.
- В Cloud service models do not require any user business skills.
- С Cloud service models are designed around the needs of the user.
- D Using a cloud service model improves the speed of code development.

[1]

Fa	ceTime is an example of which specific cloud service model?	
Α	SaaS	
В	laaS	
С	CaaS	
D	PaaS	
ر ادار	estion 14	[1]
	ud service providers can supply services such as visualised computing resources over the internet.	
Wh	ich one of the following is the best description of this type of service?	
Α	A Platform-as-a-Service that allows users to work collaboratively.	
В	A Software-as-a-Service that provides cloud-based analysis of data.	
С	A Communication-as-a-Service that enables telephone systems to be virtualised.	
D	An Infrastructure-as-a-Service that automatically provides computational resources for developers.	
		[1]

Read the following statement and select if it is true or false.

In an laaS system, the supplier is responsible for the physical datacentre infrastructure and for deploying updates to the software infrastructure.

True False

[1]

Question 16

Which **one** of the following is the **best** formula for calculating the daily charge for a client to use a cloud platform?

- A Daily charge = Monthly storage used / 30
- B Daily charge = Storage used / 365
- C Daily charge = Database size + Email size + OS size
- Daily charge = Storage used / 365 x rate

Megan is an expert in legal compliance. How does she use her skills in a cloud technology environment?				
Se	lect the most appropriate answer.			
Α		1		
^	Ensures the cloud environment meets current legislation.			
В	Checks for data accuracy in data migration.			
С	Checks that credit card data is stored securely.			
D	Checks that anti-virus software is installed on the cloud host.			
		[1]		
Qu	estion 18			
Read the following statement and select if it is true or false .				
SaaS provides users with access to word processing applications.				
Т	rue			
L				
Fa	alse			
_		[1]		

© OCR 2019

Wh	ich one of the following hardware is required to operate a cloud-based system?	
Α	Database	
В	Hypervisor]
С	Storage]
D	Protocol] [1]
Am Hoi	estion 20 elia works for a multi-national company based in Shanghai and normally uses an access point in nog Kong to connect to the company's cloud provider. One morning, Amelia finds that her connection has anged to the New Delhi access point.	
	at are the most likely reasons for the change of access point? ect the two statements that apply.	
Α	The Hong Kong access point is off line.]
В	The Hong Kong access point has a faster router.	ĺ
С	The New Delhi access point has a lower round trip time.]
D	The Hong Kong access point has been manually re-routed to New Delhi.	ĺ
		[1]

© OCR 2019

Lois works in a datacentre management team. She receives an alert that a bank of servers has failed to respond to PING requests. Lois thinks that there are four possible reasons for the failure:

- 1 one of the three leased lines to the datacentre has been accidentally cut
- 2 the air conditioning units for the bank of servers has failed
- 3 the backup power supplies for the bank of servers has failed
- 4 the servers were scheduled to be rebooted for system updates.

Select the correct answer that shows all of the reasons that apply.

Α	1, 2, 3
В	1, 3, 4
С	2, 3, 4
D	1, 2, 4

Question 22

What is the name of the networking service that enables the latency of a datacentre connection to be measured?

Α	Domain Name System (DNS)
В	Packet Internet Gopher (PING)
С	Simple Messaging System (SMS)
D	Transmission Control Protocol (TCP)

[1]

Sergio manages several clusters of cloud servers located throughout the world. He co-ordinates the starting and stopping of clusters to reduce downtime for end users.
What is the name of the process that Sergio performs on the clusters?

A	Cluster deployment
В	Cluster orchestration
c [Cluster security services

Cluster availability management

Question 24

Which three statements best describe the benefits of virtualisation?

A Enables scaling and growth of cloud provision.

Enables networks to be virtualised with virtual IP addresses.

C Maintains a low level of availability.

D Encourages the use of the SMTP protocol.

E Reduces power requirements of datacentres.

Encourages the development of SSD technology.

[1]

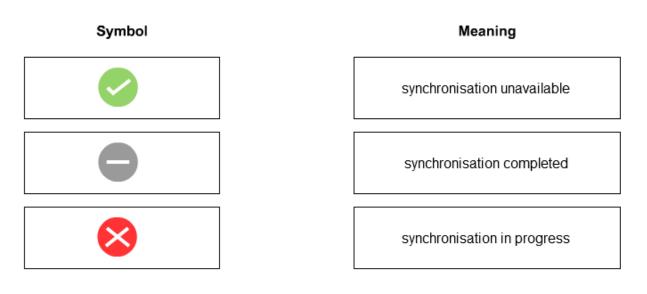
Which one of the following is not a datacentre component?					
Α	Hardware firewalls				
В	Air conditioning units				
С	Water quality monitors				
D	Redundant power supplies				

Question 26

A desktop computer synchronises with a cloud provider and displays symbols to indicate the status of the synchronisation process.

Click the symbol and link it with the appropriate meaning.

To remove a link, select the linking line.



[1]

Secure cloud storage is usually integrated with	SaaS productivity	suites. Which	one of the	following:	statements
best describes the reason for this integration?					

Α	Allows vendors to gain business loyalty.
В	Allows users to access any of their files.
С	Allows vendors to increase profits by charging for storage.
D	Allows users to edit their word processed or spreadsheet files.

Question 28

Read the following statement and select if it is true or false.

A PaaS service model recreates servers, networking, and storage in the cloud. This allows users to create complex applications on a pay-as-you-go service.

True		
False		

[1]

	ilename: personneldb.sql ermissions: Public (Read Only) None (Private)	
	user accesses a file with the access permissions above. The file permissions match the user's role within the panisation.	
Wh	nat is the role of the user?	
Α	IT technician	
В	Sales assistant	
С	Personnel manager	
D	Customer data input assistant	
		[1]
Qu	estion 30	
Wh	ich two statements best describe the AWS import/export snowball?	
Α	Snowball restricts data to 100GB of transfer.	
В	Snowball requires the user to write additional code.	
С	Snowball can be used if the migration takes longer than six hours.	
D	Snowball allows petabytes of data to be transferred into and out of the AWS Cloud.]

D

Change business outcomes

Qu	estion 31	
Clo	ud vendors provide performance metrics to enable businesses to monitor the service they receive.	
Whi	ich one of the following is not a performance metric?	
Α	Throughput	
в	Description of the control of the co	1
	Response time	
С	Net operating profit]
D	Mean time between failures	
١		[1]
O		
	estion 32	
Wh	ich one of the following is not a part of a cloud readiness assessment?	
Α	Create a pilot	1
В	Review results	
С		J 1
C	Survey end users	

Δ	smartphone has	an installed	ann that	evnehroniese	data	automatically	to the	Cloud usin	n a	TCP/IP	protocol
\sim	Siliariphone has	all IllStalleu	app mai	SYLICITIONISES	uala	automaticany	LO LIK	Cioud asii	ıu a		DI ULUCUI.

Which of the following statements could cause synchronisation to fail?

- 1 the user's account credentials have expired
- 2 the mobile phone is temporarily out of range of a signal
- 3 the smartphone switches from a 3G signal to a WiFi signal
- 4 the user is using an invalid TCP/IP protocol to access the Cloud.

Select the correct an	swer that shows	all of the	statements	that apply
-----------------------	-----------------	------------	------------	------------

Α	1, 2
В	1, 2, 3
С	1, 3, 4
D	1, 2, 3, 4

Question 34

Which one of the following parameters would you not expect to use to measure Quality of Service (QoS)?

Α	Latency
В	Throughput
	Throughput
С	
0	Service delay
_	
D	Grade of service

[1]

A cloud-based provider hosts a NAS device used by a military ship manufacturer to store ship propeller designs. A malicious user attempts to access the NAS device.

What is the name of the relevant legislation that is being broken?

Α	Official Secrets Act
В	Safe Harbour Scheme
С	US Patriot Act
D	Privacy of Electronic Communications Regulations

Question 36

Each of the following statements (A-F) could apply to **either** performance metrics **or** quality of service when choosing a cloud service provider:

- A understanding percentage uptime
- B explaining low throughput
- C understanding percentage response to alerts
- D explaining percentage over disk allocation budget
- E explaining low latency problems
- F explaining dropped packets.

In the grid below, indicate which statement relates to either performance metrics or quality of service.

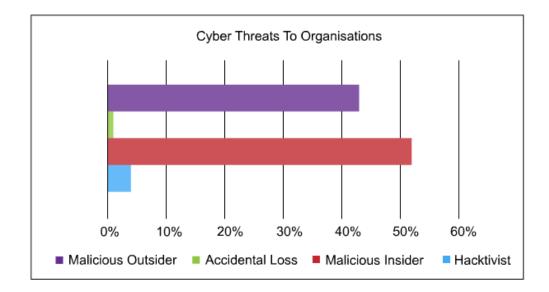
Perform	ance metrics	Quality	of service
А	0	А	\circ
В	\circ	В	\bigcirc
С	\circ	С	\bigcirc
D	\bigcirc	D	\bigcirc
E	\bigcirc	E	\bigcirc
F	0	F	0

[1]

Kari is responsible for monitoring the performance of the cloud provider's service in her organisation. One of her colleagues reports that mobile access to the provider is slow.

Which one of the following is the most likely reason for the slowness of the provider's services.

A	The user is accessing the service using a LAN.
В	Too many users are accessing the provider's services using a LAN.
С	The mobile network provider is experiencing latency problems.
D	The user is accessing the service using a fibre optic connection.



Consider the graph above.

Where does the biggest cyber threat to organisations exist?

- A From malicious insiders
- B From malicious outsiders
- C From hacktivists
- D From accidental loss

A vendor's support	technician follows	a series of	steps in	response to	an incident	relating to the	ne provision of	cloud
services.								

- 1 identify the issue
- 2 document the issue
- 3 escalate the issue to a responsible person
- 4 provide first response.

Select the answer that lists the steps in the correct order.

Α	1, 2, 3, 4

Question 40

Read the following statement and select if it is true or false.

XaaS is a combination of laaS and traditional IT outsourcing models.

True		

False		

[1]

С

D

pay-as-you-grow.

load balancing.

What cloud technology characteristic is this an example of? A Elasticity B Automation C Cloud bursting D Rapid deployment Question 42 Complete the following sentence: The provision of services where capacity is obtained incrementally when required is called A automation. B multi-tenancy.		inancial services company uses cloud technology to allow immediate access to resources as soon as they are oaded.	
B Automation C Cloud bursting D Rapid deployment [1] Question 42 Complete the following sentence: The provision of services where capacity is obtained incrementally when required is called A automation.	Wh	nat cloud technology characteristic is this an example of?	
C Cloud bursting D Rapid deployment [1] Question 42 Complete the following sentence: The provision of services where capacity is obtained incrementally when required is called A automation.	Α	Elasticity	
Rapid deployment Question 42 Complete the following sentence: The provision of services where capacity is obtained incrementally when required is called A automation.	В	Automation	
Question 42 Complete the following sentence: The provision of services where capacity is obtained incrementally when required is called A automation.	С	Cloud bursting	
Question 42 Complete the following sentence: The provision of services where capacity is obtained incrementally when required is called A automation.	D	Rapid deployment	
The provision of services where capacity is obtained incrementally when required is called A automation.	Qu	estion 42	[1]
A automation.	Cor	mplete the following sentence:	
automation.	The	e provision of services where capacity is obtained incrementally when required is called	
B multi-tenancy.	Α	automation.	
	В	multi-tenancy.	

Click the cloud model and link it with the appropriate location.

To remove a link, select the linking line.

Cloud model	Location
private	off-premises
public	on-premises

Question 44

Which **one** of the following is a requirement for the operation of a private cloud infrastructure?

А	A WiFi network
В	A software stack
С	An in-house DNS server
D	A good internet connection

[1]

Each of the following statements (A-F) could apply to an established online retail company, to a start-up supplier of builder's materials or both.

- A stock can be added quickly
- B low capital costs
- C user's login credentials can be changed on-demand
- D the technology allows the business to shut down resources when it is closed at weekends
- E employees can use their own devices to access online CRM and database systems
- F the system's resources can be adapted to suit the changing sales and supplier trends.

In the grid below, indicate which statement relates to an established online retail company, start-up supplier of builder's materials or both.

	ed online retail ompany	Start-up supplier of builder's materials				
А	\circ	А	\circ			
В	\bigcirc	В	\bigcirc			
С	\bigcirc	С	\bigcirc			
D	\bigcirc	D	\bigcirc			
E	\bigcirc	Е	\bigcirc			
F	\circ	F	\circ			

Which **one** of the following is a reason why a research and development facility may **not** benefit from cloud technology?

Α	The data held is confidential and sensitive.

- B The research does not have commercial value.
- C The research does not require security clearance.
- Data must be stored in the UK to meet legislation requirements.

Question 47

Aneesha wants to migrate the company email system to a cloud platform, but her manager does not want to.

Select a reason why her manager does not want to migrate the email system.

- A The manager is resistant to change.
- There will be more downtime using a cloud platform.
- C An email system cannot be migrated to a cloud platform.
- The manager thinks a cloud-based system means that cloud services will be cheaper to run than one based in the office.

[1]

Wh	nich one of the following is not a valid reason for the adoption of cloud technology?	
Α	Information security concerns.]
В	Possible disclosure of personal customer data.]
С	Existing high level of technical knowledge and training.]
D	Existing high level of investment in traditional IT infrastructure.]
Qu	estion 49	
Col	mplete the following sentence:	
The	e person with responsibility for tracking the total cost of cloud ownership is called a	
Α	cloud architect.]
		_
В	capacity planner.	
С	vendor manager.]
D	cloud service manager.	<u> </u>
		ا [1]

@ OCR 2019

Wh	ich one of the following is a description of cloud technology usage compared to outsourcing usage?	
Α	Cloud technology and outsourcing are used only in mature businesses.	7
В	Cloud technology cannot be used for offshore operations.]
С	Cloud technology is not used for mundane task delegation.]
D	Both cloud technology and outsourcing are used to free up internal resources.	1
		– [1]
Qu	estion 51	
Rea	nd the following statement and select if it is true or false .	
In a	PaaS cloud service model, the cloud vendor provides the services that an organisation needs to use.	
Tru	ue	
Fa	lse	
		_[1]

Response time

<u> </u>		
Whi	ich one of the following is a description of a service level in a cloud technology environment?	
А	A service level is not legally binding.]
В	A service level cannot be negotiated between the user and the cloud vendor.	
С	An event-based service level checks that a service is delivered without undue delay.	
D	A quantity-based service level checks that a service is delivered to a specified person.	
		- [1]
Qu	estion 53	
Joh	nn receives a document from his cloud provider that states:	
	December, our Network Operating Centre reported 99.995% availability and 98% of helpdesk calls were swered within 30 seconds. This compares favourably with our outsourcing competitors.'	
Wh	aat is the name of terms being used to compare cloud technology with outsourcing?	
Α	Costs	
В	Usage	
С	Service levels	

Each of the following statements (A-F) could apply to the technical elements, financial elements or both of a cloud readiness assessment.

- A internet connection speed
- B costs of employment of management staff
- C choice of SSD or magnetic disks
- D internet bandwidth
- E long-term disk usage prices
- F DNS registration.

In the grid below, indicate which statement relates to technical elements, financial elements or both.

Technic	cal elements	Financial elements				
А	\circ	А	\bigcirc			
В	\circ	В	\bigcirc			
С	\bigcirc	С	\bigcirc			
D	\bigcirc	D	\bigcirc			
E	\bigcirc	E	\bigcirc			
F	\circ	F	\bigcirc			

[1]

Question 55

Which one of the following is a variable cost when implementing cloud services?

Α	SSD size
В	Operating system
_	
С	Quantity of servers
D	
D	Hours per month usage

The costs associated with cloud technology vary over time depending on usage.

Which one of the following is a disadvantage of this feature?

Α	It costs more for the company in the long term.

- B It is difficult to forecast sales demand for goods.
- C It is difficult for companies to accurately forecast cash flow.
- D It is not possible to obtain a business loan when costs are variable.

[1]

Question 57

A small business wants to sell garden shed designs using cloud technology.

Which one of the following reasons outlines why cloud technology is a good option for this business?

- A Allows goods to be distributed over the internet.
- B Allows new staff to be employed as and when needed.
- C Allows customers to return their goods if they want a refund.
- Allows owners of the business to have new hardware delivered quickly.

[1]

[1]

Question 58

Rea	ad the following statement and select if it is true or false .
Clo	ud technology can increase barriers to data access for users.
_	
Tru	ue
Fa	lse
Qu	estion 59
Wh	ich one of the following is a technical skill needed to design a SaaS cloud model?
Α	Delivering training to users.
В	Migrating large databases to a new server.
С	Determining OS, memory and storage requirements.
D	Producing income and growth forecasts based on CPU utilisation.

© OCR 2019

Each of the following statements (A-F) could apply to the suitability of an organisation's infrastructure, the ability to reliably access cloud-based services or both.

- A the organisation has structured cabling installed in its buildings
- B the organisation has local IT support staff
- C the organisation has a fibre optic leased line
- D the organisation has a management team which has networking knowhow
- E the organisation has a backup internet line in case of failure of the main line
- F the organisation does not have outgoing bandwidth limits.

In the grid below, indicate which statement relates to the suitability of an organisation's infrastructure, the ability to reliably access cloud-based services or both.

	an organisation's structure	Ability to reliably access cloud-based services				
А	0	Α	\circ			
В	\circ	В	\bigcirc			
С	\circ	С	\circ			
D	\circ	D	\bigcirc			
Е	\circ	E	\circ			
F	\circ	F	\circ			

A vendor manager	spends of	one week	producing	documents	that	ensure	cloud	customers	do no	t breach	legislative
compliance.											

Which one of the following reasons outlines why this task is appropriate for the vendor manager?

Α	The vendor manager possesses security and compliance skills.

- B The documents are needed when consolidating data from several sources.
- C Legal compliance is required for calculating the allocation of cloud resources.
- All staff should ensure that the customers business model does not breach regulations.

[1]

Question 62

Which one of the following roles requires skills in provisioning of a cloud server?

- A Support desk staff
- B Capacity planning staff
- C Network operation staff
- D Vendor management staff

Which one of the following defines the rules used to send data over a cloud-based network?

Α	Devices

- B Protocols
- C Servers
- D Applications

Question 64

A database designer saves multiple copies of a database on a cloud-based storage server with private permissions set. After a weeks' holiday the designer finds only one copy of the database remains on the server. Listed below are possible reasons for the deletion of the database copies:

1	a malicious user has deleted the copies
2	the database designer has set an option for the copies to delete after five days of inactivity
3	the cloud-based storage server implements a data deduplication system
4	the cloud-based storage server has exceeded its storage quota and duplicate files have been removed by helpdesk staff.

Select the correct answer that shows all of the reasons that apply.

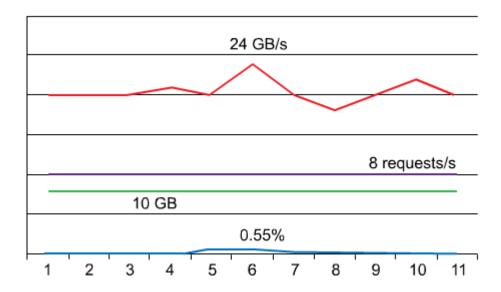
- A 2,3
- B 1, 2, 3
- C 2, 3, 4
- D 1, 2, 4

Each of the following statements (A-F) could apply to **either** affordability **or** the security of the datacentre when considering the adoption of cloud services.

- A the cloud service has a different charging rate for off-peak hours
- B the cloud service is protected by hardware firewalls
- C the cloud service allows charges to be adjusted for international bandwidth
- D the cloud service has redundant firewalls
- E the cloud provider has co-locations for its servers
- F the cloud service can scale to meet the future demands of the company.

In the grid below, indicate which statement relates to either affordability or the security of the datacentre.

Affe	ordability	Security of	the datacentre
А	\bigcirc	А	\circ
В	\circ	В	\bigcirc
С	\circ	С	\bigcirc
D	\bigcirc	D	\bigcirc
E	\bigcirc	E	\circ
F	\circ	F	\circ



The above is a screen shot that is included in a Service Level Agreement (SLA).

What is the screen shot an example of?

Α	Availability data

B Service disruption data

C Service response times

D Service monitoring and reporting

Which three statements best identify the contents of a Service Level Agreement (SLA)?

Α	Dispute resolution procedures
В	Technical infrastructure design
С	Change control processes
D	Cost forecast
Е	Liability for service disruption
F	Copyright and designs statement

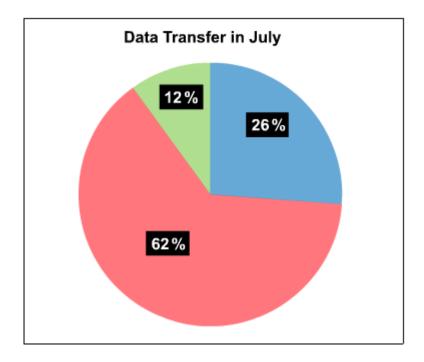
Question 68

Click the Cloud Service Level Agreement (CSLA) term and link it with the appropriate meaning.

To remove a link, select the linking line.

Cloud SLA term	Meaning
transparency	email showing responses to Freedom Of Information requests
disaster process recovery notification	clear statements of data breach notifications
legal data release notification	email trail showing files and data restored

[1]



A cloud provider transfers data mainly to the USA and Asia. The provider produces a monthly report that summarises the percentage of data transfers made each month.

What part of the world accounts for 12% of the data transfers in July?

Α	Asia

B USA

C South Africa

D All areas except USA and Asia

Approximate round trip times in milli-seconds:
Minimum = 82ms, Maximum = 251ms, Average = 177ms

Marie works in a network operations centre for a large cloud technology provider. She has written an automated test to check if a specific host is performing satisfactorily.

Above is a screen shot of the output of her test.

What is the information that is displayed in this output?

Α	Network latency
В	Network capacity
С	Available bandwidth
D	Host response time

Supporting you

For further details of this qualification please visit the subject webpage.

Review of results

If any of your students' results are not as expected, you may wish to consider one of our review of results services. For full information about the options available visit the <u>OCR website</u>. If university places are at stake you may wish to consider priority service 2 reviews of marking which have an earlier deadline to ensure your reviews are processed in time for university applications.



Attend one of our popular CPD courses to hear exam feedback directly from a senior assessor or drop in to an online Q&A session.

https://www.cpdhub.ocr.org.uk





We'd like to know your view on the resources we produce. By clicking on the 'Like' or 'Dislike' button you can help us to ensure that our resources work for you. When the email template pops up please add additional comments if you wish and then just click 'Send'. Thank you.

Whether you already offer OCR qualifications, are new to OCR, or are considering switching from your current provider/awarding organisation, you can request more information by completing the Expression of Interest form which can be found here: www.ocr.org.uk/expression-of-interest

OCR Resources: the small print

OCR's resources are provided to support the delivery of OCR qualifications, but in no way constitute an endorsed teaching method that is required by OCR. Whilst every effort is made to ensure the accuracy of the content, OCR cannot be held responsible for any errors or omissions within these resources. We update our resources on a regular basis, so please check the OCR website to ensure you have the most up to date version.

This resource may be freely copied and distributed, as long as the OCR logo and this small print remain intact and OCR is acknowledged as the originator of this work.

Our documents are updated over time. Whilst every effort is made to check all documents, there may be contradictions between published support and the specification, therefore please use the information on the latest specification at all times. Where changes are made to specifications these will be indicated within the document, there will be a new version number indicated, and a summary of the changes. If you do notice a discrepancy between the specification and a resource please contact us at: resources.feedback@ocr.org.uk.

OCR acknowledges the use of the following content: Square down and Square up: alexwhite/Shutterstock.com;

Any reference to existing companies or organisations is entirely coincidental and is not intended as a depiction of those companies or organisations.

Please get in touch if you want to discuss the accessibility of resources we offer to support delivery of our qualifications: resources.feedback@ocr.org.uk

Looking for a resource?

There is now a quick and easy search tool to help find **free** resources for your qualification:

www.ocr.org.uk/i-want-to/find-resources/

www.ocr.org.uk

OCR Customer Support Centre

Vocational qualifications

Telephone 02476 851509 Facsimile 02476 851633

Email vocational.qualifications@ocr.org.uk

OCR is part of Cambridge Assessment, a department of the University of Cambridge. For staff training purposes and as part of our quality assurance programme your call may be recorded or monitored.

© **OCR 2019** Oxford Cambridge and RSA Examinations is a Company Limited by Guarantee. Registered in England. Registered office The Triangle Building, Shaftesbury Road, Cambridge, CB2 8EA. Registered company number 3484466. OCR is an exempt charity.



