


# My grades for **Final**



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FINAL-2a6b7  
#158 Page 2 of 16


**Part 1: Multiple Choice (15 points total)**

(1 point per question) Choose the correct answer for each question. There is a bubble sheet attached to the end of this exam, flip to it and fill in the bubble for the letter corresponding to the right answer. If you make a mistake, erase or cross out the bubble for the incorrect choice and fill in the bubble for the correct answer.

- Which statement is false?
  - Horizontal scaling out increases the number of the same resources
  - Horizontal scaling in decreases the number of the same resources
  - Vertical scaling up upgrades the resources
  - Vertical scaling down decreases the number of the same resources
- After generating a key pair for an EC2 instance, what key do you provide to connect to the instance?
  - Private key
  - Public key
  - Both keys
  - No key is needed
- This cloud characteristic is defined as the ability to increase or decrease the resources a cloud-based application uses:
  - Multitenancy
  - Elasticity
  - Ubiquitous Access
  - Measured Usage
- This cloud characteristic is defined as the capability to recover when stressed by load (more requests for service), attacks (either accidental through a bug, or deliberate through intention), and failure of any component in the workload's components:
  - Ubiquitous Access
  - Multitenancy
  - Elasticity
  - Resiliency

Page 2 of 14

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Final-2a8b7  
#159 Page 3 of 16




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5. The delivery models of AWS Beanstalk, AWS Lambda, and Amazon EC2 are:

- a. SaaS, PaaS, and IaaS
- b. PaaS, SaaS, and FaaS
- c. PaaS, SaaS, and IaaS
- d. PaaS, FaaS, and IaaS

6. Which statement of serverless is correct?

- a. The name, serverless, explains that there aren't any compute resources behind the scenes and that's why serverless computing is so cool and popular.
- b. Cloud consumers don't concern themselves with the provisioning and scalability of the compute resources.
- c. Serverless computing is always cheaper than other compute solutions because you don't use servers.
- d. Amazon S3 is not an example of serverless.

7. Google Kubernetes Engine (GKE) helps you deploy, manage, and scale Kubernetes environments for your \_\_\_\_\_ applications on Google Cloud.

- a. Virtualized
- b. Encapsulated
- c. Containerized
- d. Serverless

8. Which of these is not a benefit of Infrastructure as Code (IaC)?

- a. Integrated AI technology
- b. Cost reduction
- c. Improved infrastructure consistency
- d. Error reduction

9. This principle is not in the three ways of DevOps:

- a. The principles of Feedback
- b. The principles of Flow
- c. The principles of Continuous Integration and Continuous Delivery
- d. The principles of Continuous Learning and Experimentation

Page 3 of 14

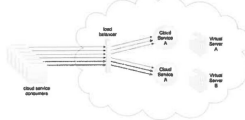


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\$158 Page 4 of 16

10. This release is a deployment strategy whereby changes are initially released to a small subset of users. The system is then carefully monitored for signs of trouble, using both business KPIs and operational metrics. Once you're confident that your changes have not adversely impacted functionality, performance, or security, you can roll out the changes to remaining users either in further increments or all at once.

- a. Feature Toggles and Dark Launches
- b. Canary Release
- c. Cluster Immune Release
- d. Blue/Green Deployment

11. This figure represents the \_\_\_\_\_. In this architecture, \_\_\_\_\_.



- a. Workload Distribution Architecture; a load balancer that provides runtime logic capable of evenly distributing the workload among the available IT resources
- b. Cloud Balancing Architecture; IT resources can be load-balanced across multiple clouds
- c. Workload Distribution Architecture; IT resources can be load-balanced across multiple clouds
- d. Cloud Balancing Architecture; a load balancer that provides runtime logic capable of evenly distributing the workload among the available IT resources

12. This is not part of the 6 pillars of the AWS well-architected framework:

- a. Security
- b. Sustainability
- c. Operational Excellence
- d. Availability

Page 4 of 14

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#158 Page 5 of 16



- (13) This threat agent is a "non-trusted cloud service consumer without permissions in the cloud":
- a. Malicious Service Agent
  - ☒ b. Anonymous Attacker
  - c. Trusted Attacker
  - d. Malicious Insider
- (14) This is the cost that you pay when you make your initial purchase of the hardware required to host a modern webapp on-premise that may require a loan, or investment:
- a. Lock-in costs
  - b. Sunk costs
  - ☒ c. Cost of capital
  - d. Integration costs
- (15) Which of the following is an ideal goal for microservices architectures?
- ☒ a. Independent coupling
  - ☐ b. Loosely coupled
  - ☐ c. Dependently deployable
  - ☐ d. Resilient load balancing

Q16

1

Q17

2

Q18

0

Q19

2

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#158 Page 6 of 16

Part 2 – Short Answer (15 points total)

Concisely answer each question in the space provided, do not write information dumps.

16. (1 point) Lead time is the time between when a ticket is created in our tracking system, and when the solution is delivered to the customer. When does deployment lead time begin?

after the development is done once deployed

17. (1 point) In our DevOps lecture we learned that generative cultures are more agile, and therefore fix bugs and deliver features better and faster than other corporate cultures. List one thing that generative cultures do to achieve this agility.

Encourage each individual in the team for new developments, way of solutions.

18. (2 points) Why is symmetric encryption faster than asymmetric encryption? Explain the difference between the two types of encryption.

Symmetric encryption – where we use only one

19. (2 points) Why is symmetric encryption faster than asymmetric encryption? Explain the difference between the two types of encryption.

Symmetric encryption – where we use only one

Student mentions "When work is completed (checked into source control)"

1

Answer: Information is actively sought, messengers are trained, responsibilities are shared, bridging between teams is rewarded, failure causes inquiry, new ideas are welcomed.

0

Student mentions that symmetric encryption employs a single share key for encryption and decryption which makes it faster.

1

https://app.crowdmark.com/score/e78ccbb0-b3bb-4e6c-ae78-454c8eeb0bfc?print=true

5/16

Q20

2

Student mentions that a load balancer distributes workload amongst the many servers and directs traffic away from failing servers.

Q21

1

21. (1 point) The Department of Defense is conducting simulations to optimize their computing architecture to handle compute demands you use to resolve cloud computing architecture will be used. What cloud computing architecture will be used?

Q22

2

22. (2 points) We defend our data when it is in transit through encrypted TLS via HTTPS, where else do we need to protect our data? Give a solution to protect the data.  
We need to protect our data at rest mainly. Like we can use encryption of data.  
to store passwords, credit card data, etc.

Student mentions cloud bursting architecture that we must protect data at rest.

Q23

0



23 (1 point) Is there a way to save money on EC2 instances? Explain how.

- we can make use of lambda functions
- By using Free-tier

Q24

3

24 (3 points) In a microservices architecture, what is the consequence of having a coupled goal?

- If we make our services
- ① One service will be coupled to another service which is a coupled goal
  - ② The network traffic
  - ③ Authentication and Authorization a complicated issue
  - ④ Database access also
  - ⑤ Integration of services is a problem.

Page 8 of 14

Answer:

Spot instances, reserved instances or having a savings plan.

0

plexity increases.

1

1

microservices are outweighed by increased difficulty.

1

Q25A

1

Q25B

3

Final-Exam?

8:58 Page 9 of 16

Part 3 – Long Answer (23 points total)

These questions assess your ability to analyze and synthesize the concepts covered throughout the course. Do not give us information dumps. Information dumps are where you just write everything you know about the subject in question. These do not answer the question asked, and generally earn no points. They waste your time and ours. Make sure you understand the scenario being described and the question asked.

25. (7 points total) An organization has undertaken the initiative to modernize and refactor their on-premises application, with the ultimate goal of migrating it to the cloud. The application, currently monolithic and intricate, necessitates a transformation into a microservice architecture to meet the requirements of scalability and flexibility in the cloud environment.

(1 point) How do the services communicate?

Rest API

After six months of running the application in the cloud, the DevOps microservices architecture is running smoothly and all is well.

(4 points) List at least 4 benefits that the team obtained from the microservice architecture.

- ① loosely coupled
- ② easily developed, tested
- ③ If a microservice is confined to that
- ④ Each microservice is

Student mentions the services communicate via APIs

1

Page 9 of 14



Student mentions that any service is allowed to call any other service, or there is a lack of orchestration and or throttling.

Q26

0

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#158 Page 11 of 16



Answer: Malicious insiders may have administrator level privileges for accessing cloud consumer IT resources. Applying the principle of least privilege will limit the extent of damage a malicious insider may cause.

0

Q27

3

Student's comments about availability mention amount of up (or down) and

1

Student's comments about reliability in some way of a workload form its intention correctly consistently when expected to.

1

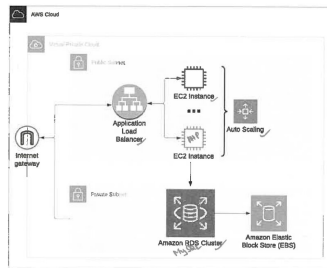
Student's comments about resiliency mentions in some way the ability of a cloud-based system to withstand or recover from potential disruptions, failures, or unexpected events while ensuring the continuity of critical services and operations.

1



28. (5 points total) Use and consider the following architectural diagram of a traditional web app deployed on AWS when answering the following questions. Take note of the following:

- There is an autoscaling listener
- There is a load balancer that balances traffic across the pool of EC2 servers
- The EC2 servers run a web app using the LAMP (Linux/Apache/MySQL/PHP) stack
- The RDS instances store their database and logs on EBS volumes
- The PHP app connects to MySQL through an Amazon RDS cluster
- There is a virtual private cloud featuring two subnets, one public and one private. The EC2 servers are in the public subnet which allows HTTPS traffic into the subnet. The RDS cluster is in a private subnet that only allows traffic on port 3306 from the public subnet.



Page 12 of 14

Q28A

1

Q28B

1

Q28C

0

Q28D

1

They monitor the load on the system, and instruct the load balancer to scale in **and** out.

Answer: The el... mentions any of the boundaries of scaling ability to connect to the database on the EC2 servers RDS servers, nothing else, therefore any servers they only need the DB port 3306.

0 scale vertically, what are the CPU/memory/storage, etc.).

1 "u", or the "programmer".

1

Q29A

1

29. (6 points total) A company has successfully designed and implemented a CI/CD pipeline for their application. However, they currently face a manual step in their workflow, wherein they must manually run their infrastructure as Code (IaC) scripts to provision the required infrastructure for the CI/CD pipeline in different environments. As a result, there is a growing demand to integrate IaC seamlessly into the CI/CD pipeline to automate the provisioning process and streamline the deployment workflow.

Q29B

3

(1 point) List two IaC tools that are widely used.  
③ Terraform by HashiCorp  
④ CloudFormation by AWS  
(3 points) List 3 benefits of IaC.  
Cost reduction.  
Improved infrastructure consistency.

Q29D

1

(1 point) How many of these steps can IaC be integrated into?

Q29E

1

Correct: 2  
Between 2 and 3, and between 4 and 5.


Student mentions two known infrastructure as code tools.

MC p1 13

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#158 Page 15 of 16



Name: Giri Hasan Kelly Russell

Student ID Number: 800913644

Instructions:  
Please completely fill in the rectangle associated with your response. Example: ☐ A ☐ B ☐ C ☐ D ☐ E

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
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