



Cairo University
Faculty of Computers and Information
Final Term Exam



Department: Computer Science	
Course Name: Selected Topic 1 (Cloud Computing)	Date: 4/1/2017
Course Code: CS495	Duration: 2 hours
Instructor(s): Prof. Fatma Omara	Total Marks: 60

Answer The Following Questions

Question 1: Define The Following

[10 marks]

- a) Scalability
- b) Jungle Computing
- c) Migration Services
- d) Emulation
- e) Virtualization

Question 2: What The Relationship Between The Following:

[20 marks]

- a) Location transparency and Availability
- b) Public Cloud and Private Cloud
- c) Migration and Green ICT
- d) Cloud, CapEx, and OpEx
- e) VM Migration and SLA

Question 3: What The Similarities and Differences Between The Following:

[25 marks]

- a) P2P Computing and Grid Computing
- b) Over provisioning and Under-Provisioning
- c) Regular Migration and Live Migration
- d) Full Virtualization, Para Virtualization, and OS-Level Virtualization
- e) Process Migration and VM Migration

Question 4: Lab.

[5 marks]

— Assume that a junior developer needs to execute a set of tasks, such as:

- Monthly backup of data
- Daily report generation to report any errors, transactions, etc.
- Sending an email at the end of the day with some information to subscribers.
- Clearing the log files at the end of every week
- Remind yourself of a wonderful weekend coming up, every Friday at 5:00 PM

It is required to advise him with the GAE service that can help him to do these tasks?

- a) What is the PaaS platform that provides developers with 1Dyno for each deployed app/month?
- b) What is the build tool that is used to deploy applications on this platform?
- c) What is the repository that is integrated with this platform?

With My Best Wishes
Prof. Fatma Omara



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Answer The Following Questions

Question 1: Define The Following

[10 marks]

- Scalability *virt os*
- Jungle Computing
- Migration Services *vr*
- Emulation
- Virtualization *to share*

Question 2: What The Relationship Between The Following:

[20 marks]

- Location transparency and Availability *→*
- Public Cloud and Private Cloud
- Migration and Green ICT
- Cloud, CapEx, and OpEx
- VM Migration and SLA

Question 3: What The Similarities and Differences Between The Following:

[25 marks]

- P2P Computing and Grid Computing
- Over provisioning and Under-Provisioning
- Regular Migration and Live Migration
- Full Virtualization, Para Virtualization, and OS-Level Virtualization
- Process Migration and VM Migration

Question 4: Lab.

[5 marks]

— Assume that a junior developer needs to execute a set of tasks, such as:

- Monthly backup of data *data store*
- Daily report generation to report any errors, transactions, etc... *crons*
- Sending an email at the end of the day with some information to subscribers. *cron*
- Clearing the log files at the end of every week *log*
- Remind yourself of a wonderful weekend coming up, every Friday at 5:00 PM

It is required to advise him with the GAE service that can help him to do these tasks?

- What is the PaaS platform that provides developers with 1Dyno for each deployed app/month?
- What is the build tool that is used to deploy applications on this platform?
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