Quiz 13: DevOps

Due May 4 at 10pm   **Points** 10   **Questions** 6   **Time Limit** None

Instructions

You **may** use the slides from the lecture and other sources to answer these questions.   Please be sure to cite any references but be sure to answer the following questions in your own words. Do NOT simply cut and paste the information from the slides.   You will receive a score of 0 if you copy the prose from the slides.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	46 minutes	0 out of 10 *

* Some questions not yet graded

Score for this quiz: **0** out of 10 *
Submitted May 4 at 8:44pm
This attempt took 46 minutes.

Question 1   Not yet graded / 2 pts

Identify four things that might be important to monitor in a cloud-based application with a web interface.

Your Answer:
- Failure probability
- Loading speed of pages
- Who are the end users, what kind of users, which activity they perform.

Mean time to failure

Mean time between failures

Mean time to resolution

Server capacity: disk, memory, network

User behavior, e.g. which pages are customers requesting

Response times

Question 2   Not yet graded / 2 pts

Describe how DevOps teams might use Lean techniques.

Your Answer:

Lean techniques play a vital role in achieving DevOps:

- First technique is Continuous Improvement : As something gets developed integrate it at the same moment. Don't wait for anybody, for example : A developer might be waiting for tester to test it, so don't wait and start integrating. Make frequent releases so that you can get fast feedback from customers . Fix the bugs as quickly as possible. So this gives continuous improvement.
- Second one is to eliminate waste : Lean follows a good strategy of eliminating waste. Something that does not add values to customer is a waste. Eliminate the things at the same time you find that they are wasteful. Otherwise the system may get into deadlock if there are waste in it and it will become more complex to solve it.

Lean is mainly about eliminating waste. This is done in DevOps by automating everything, so no wasteful testing or resources are taken up. This also has to do with continuously improving their process to be faster which can be accomplished with better, more concise testing and deployment automation. One Lean technique that could be used by DevOps is Value stream mapping which would compare the current method of deployment with a new proposed method to visualize how the process could be improved

Question 3   Not yet graded / 2 pts

Describe the difference between continuous delivery and continuous deployment.

Your Answer:

Continuous delivery means the frequent deliveries to the customers , you can get frequent feedback from customers so that it makes easy for all people. Continuous delivery is delivery given from developers to Ops. While Continuous deployment means that Delivery is directly made from developers to customers.

Continuous delivery means that new features are continuously delivered to Ops, ready for deployment but deployment is done manually.   Continuous deployment automatically deploys new features to the customer.

Question 4   Not yet graded / 2 pts

Why does DevOps automate everything?

Your Answer:

DevOps Automate everything because :

- It improves the speed of frequent releases.
- Bugs get detected very fast and process moves faster.
- Provides high quality release.
- It maintains consistency and reliability.

Manual processes are slow and error prone. Identify and automate the hardest parts. It creates a repeatable and reliable process for software releases

Question 5   Not yet graded / 2 pts

According to Mueller, DevOps is the result of merging which two trends?

Your Answer:
- Agile System Administration
- Value of collaboration between Dev and Ops.

1. agile system administration/agile operations
2. benefits of collaboration between development and operations staffs

Question 6   0 / 0 pts

"I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination. I further pledge that I have not copied any material from a book, article, the Internet or any other source except where I have expressly cited the source."

Correct!

- ◉ True

- ○ False

Quiz Score: **0** out of 10