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Submitted Nov 20 at 5:57pm

**Question 1**

**6 / 6 pts**

Which of the following are NOT considered as Fowler’s 10 best practices for Continuous Integration (CI)?

**Select all that apply**

**Correct!**

Manually build the code

**Correct!**

Everyone commits after discussing with team members

Maintain a single source repository

**Correct!**

Do regular builds on a timed schedule, for example, perform builds every night

Make it easy for anyone to get the latest executable

Everyone can see what’s happening

Automate deployment

**Question 2**

**0 / 4 pts**

What does the following piece of code do? **Select all that apply.**

import express from 'express';

const app = express();

app.get('/health’, (req, res) => {

 res.status(200).send({

   status: 'running'

 })

});

**Correct!**

Creates a GET endpoint and sets the route to ‘/health’

**You Answered**

Sets the request status to 200

**Correct Answer**

Sets the response status to 200

All of the above

**Question 3**

**2 / 6 pts**

Match the following Cloud Service Models with the description that best fits it:

**Correct!**

**IaaS**

               A virtual or physical cloud service providing infrastructure - computers, networking resources, storage

**You Answered**

**PaaS**

               A cloud service that provides fully functional applications

**Correct Answer**

A cloud service that provides the Operating environment and the system ensures the application has the necessary infrastructure to run and scale

**You Answered**

**SaaS**

               A cloud service that provides the Operating environment and the system ensures the application has the necessary infrastructure to run and scale

**Correct Answer**

A cloud service that provides fully functional applications

**Question 4**

**6 / 6 pts**

Which statement(s) below best describe(s) why your organization might choose to employ CLOUD COMPUTING over computing on equipment within our own internal data center?

(Choose all that apply.)

Cloud computing gives me better monitoring of my servers.

**Correct!**

Deploying new equipment in my organization's data center can be very costly.

Cloud computing always provides better security for my data.

**Correct!**

Deploying new equipment in my organization's data center might require long lead times.

**Question 5**

**2 / 2 pts**

Which method passes arguments from one page to next as a part of the uniform resource locator?

**Correct!**

GET

POST

PUT

DELETE

**Question 6**

**4 / 4 pts**

SOAP is a  Protocol and REST is a  Architecture

**Answer 1:**

**Correct!**

Protocol

**Answer 2:**

**Correct!**

Architecture

**Question 7**

**6 / 6 pts**

You are one day from the published release date on your software package, and you are putting the finishing touches on your release. However, you discover a critical security flaw that you estimate will take several weeks to fix, and it could potentially expose sensitive information of your users. You have already missed your initial deadline, and are worried that your company's stock will drop if you miss another deadline. What should you do?

**Correct!**

Delay the release, citing the discovery of a security flaw and the desire for customers' security, and hope that your stock doesn't drop.

Release the software anyway, without disclosing the flaw, and fix the flaw as soon as you can.

Release the software anyway, but disclose the flaw, fixing it as soon as you can.

Delay the release, inventing a non-security related reason, because security flaws could scare investors.

**Question 8**

**4 / 4 pts**

Which of the following does NOT contribute to creating self-documenting code?

**Correct!**

Writing detailed comments describing each step of the code.

Using consistent naming scheme.

Using consistent coding style.

Including rationale in comments.

**Question 9**

**0 / 2 pts**

what does console.log("Hello World!!!") in your server.js file (Node server) do?

**Correct Answer**

Print "Hello World!!!" in the terminal

Print "Hello World!!!" in the browser console

**You Answered**

Print "Hello World!!!" in the html code

Destroys your machine

**Question 10**

**2 / 2 pts**

All open-source software licensees (MIT, GPLv3, BSD) allow you to use, and change the software, as you see fit in your commercial product.

True

**Correct!**

False

**Question 11**

**2 / 2 pts**

Heroku is an example of what type of cloud service?

**Correct!**

Platform as a service (PaaS)

Infrastructure as a service (IaaS)

Software as a service (SaaS)

Function as a service (FaaS)

**Question 12**

**6 / 6 pts**

With reference to the data model shown here,  list the first name and last name of the staff that have sold more than 100  different products in increasing order of distinct products sold. **Select all that apply.**

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**Correct!**

SELECT s.first\_name, s.last\_name, COUNT(DISTINCT pip.product\_id)

FROM Retail\_purchases rp

INNER JOIN Staff s

ON rp.staff\_id = s.staff\_id

INNER JOIN products\_in\_purchase pip

ON rp.purchase\_id = pip.purchase\_id

GROUP BY first\_name, last\_name

HAVING  COUNT(DISTINCT pip.product\_id) >100

ORDER BY 3;

**Correct!**

SELECT s.first\_name, s.last\_name, COUNT(DISTINCT pip.product\_id)

FROM Retail\_purchases rp

INNER JOIN Staff s

ON rp.staff\_id = s.staff\_id

INNER JOIN products\_in\_purchase pip

ON rp.purchase\_id = pip.purchase\_id

GROUP BY first\_name, last\_name

HAVING  COUNT(DISTINCT pip.product\_id) >100

ORDER BY COUNT(DISTINCT pip.product\_id);

SELECT s.first\_name, s.last\_name, COUNT(DISTINCT pip.product\_id)

FROM Retail\_purchases rp

INNER JOIN Staff s

ON rp.staff\_id = s.staff\_id

INNER JOIN products\_in\_purchase pip

ON rp.purchase\_id = pip.purchase\_id

HAVING  COUNT(DISTINCT pip.product\_id) >100

ORDER BY COUNT(DISTINCT pip.product\_id);

SELECT s.first\_name, s.last\_name, COUNT(pip.product\_id)

FROM Retail\_purchases rp

INNER JOIN Staff s

ON rp.staff\_id = s.staff\_id

INNER JOIN products\_in\_purchase pip

ON rp.purchase\_id = pip.purchase\_id

GROUP BY first\_name, last\_name

HAVING  COUNT(pip.product\_id) >100;

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|  |  |
| --- | --- |
| **Time:** | 106 minutes |
| **Current Score:** | 40 out of 50 |
| **Kept Score:** | 40 out of 50 |

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(Will keep the highest of all your scores)A screenshot of a social media post

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