Module 2 - Graded Quiz

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Graded Quiz due Dec 13, 2023 09:58 IST Completed

Question 1

1.0/1.0 point (graded)

What is the primary reason for DevOps initiative failure?

- ○ Lack of communication
- ○ Lack of skills
- ○ Lack of tools
- ◉ Lack of organizational learning and cultural change ✔

Answer

Correct:
The first reason for failing to meet DevOps expectations is a lack of organizational learning and cultural change.

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Question 2

1.0/1.0 point (graded)

What is the TDD workflow?

- ○ Write the code, test it manually, and refactor it if necessary.
- ○ Write the perfect code, refactor it, and then write failing test cases.
- ○ Write a passing test case and refactor the code to improve it.
- ◉ Write a failing test case, write enough code to make it pass, refactor the code to increase quality, and repeat the process. ✔

Answer

Correct:
Broad Network Access is accessing cloud computing resources through the network using standard mechanisms and platforms.

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Question 3

1.0/1.0 point (graded)

What is the purpose of unit testing?

- ○ To test the system for acceptability.
- ○ To test the complete system end to end.
- ○ To combine individual units and test them as a group.
- ◉ To validate that each unit is performing as designed.

Answer
Correct:
Unit testing aims to test individual units or components of a software application in isolation to ensure that each unit functions as intended and produces the expected output.

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Question 4

1.0/1.0 point (graded)
What levels are BDDs usually performed?

- Unit and user acceptance testing
- Unit and integration testing
- Unit and system testing
- Integration and system testing

Answer
Correct: BDD takes place at the Integration and system testing levels.

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Question 5

1.0/1.0 point (graded)
How does CI/CD reduce code integration risk?

- By automating the deployment process
- By providing opportunities for code review with every pull request
- By ensuring that the code in the main or master branch is always deployable
- By automatically building, testing, and deploying code changes

Answer
Correct:
CI/CD reduces code integration risk by automatically building, testing, and deploying code changes.

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Question 6

1.0/1.0 point (graded)
Which of the following is true regarding Continuous Deployment?

- Continuous Deployment prepares the code for the release of your application and automates the process required to deploy and build your application.
- Continuous Deployment means continuously integrating your code with the main codebase.
- Continuous Deployment is the automation process that allows you to integrate your work into

your repository.

- (●) Continuous Deployment is continuously pushing your code changes to production.

✔

Answer
Correct:
Continuous Deployment automatically pushes your code changes to production after it passes through Continuous Integration and Continuous Delivery.

Submit

Question 7

1.0/1.0 point (graded)

How does CI help reduce the risk of code integration issues?

- ( ) By eliminating the need for testing.
- ( ) By enabling larger changes to the code.
- ( ) By increasing the chances of errors during integration.
- (●) By reducing the probability of errors during integration.

✔

Answer
Correct:
With CI, you're integrating smaller changes more frequently, which means less risk of something going wrong during integration.

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Question 8

1.0/1.0 point (graded)

What does Git allow developers to dothat other version control systems may not?

- (●) Check out the entire file
- ( ) Check out only the section of code they are working on
- ( ) Collaborate linearly with other developers
- ( ) None of the above

✔

Answer
Correct:
Unlike other version control systems, Git allows developers to check out the entire code file by providing a local copy of the work history and managing commits locally before pushing to a remote branch.

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Question 9

1.0/1.0 point (graded)

Which CI/CD tool is an open-source, flexible framework for building fully portable pipelines?

- ○ Travis CI
- ○ Jenkins
- ○ GitLab
- ● Tekton

✔

Answer
Correct:
Tekton is a CI/CD tool that is an open-source, flexible framework for building fully portable pipelines. The design of the platform aims to provide a powerful, flexible, and extensible solution for building and deploying applications in a Kubernetes environment.

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Question 10

1.0/1.0 point (graded)

What is the programming language used to write the Jenkinsfile?

- ○ Docker
- ○ YAML
- ○ Python
- ● Groovy

✔

Answer
Correct: You can describe the Jenkinsfile using the Groovy programming language.

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‹ Previous Next ›