Day 43 DIY

DIY Questions:

1.An organization wants to increase its competitive efficiency. The management team decides to release features on a daily or hourly basis. They also want to ensure cross - department coordination. Which of the following steps of CI/CD pipelines will the organization adapt in this scenario?

a)Continuous integration b)Continuous delivery c)Continuous deployment d)Continuous development

Answer; c)Continuous deployment

2.If Alice is required to integrate the Continuous Integration workflow in her software development process, then which of the following sequences of steps should she follow in order to complete this action:

1.The Continuous Integration server detects changes in the version control repository, so the Continuous Integration server retrieves the latest copy of the code from the repository and then executes a build script, which integrates the software.

2.The developer commits the code to the version control

repository. Meanwhile, the Continuous Integration server on the integration bui

ld machine polls the source code repository for changes.

3.The Continuous Integration server generates feedback of the build results to the specified project members.

4.The Continuous Integration server continues to poll for changes in the version control repository, and the process repeats.

5.Unit tests are then carried out if the build of that project passes.

If the tests are successful, the code is ready to be deployed to

either the staging or production server.

a)2 -> 3 -> 4 -> 1-> 5 b)3 -> 2 -> 1 -> 5 -> 4 c)3 -> 1 -> 5-> 2 -> 4 d)2 -> 1 -> 3 - > 5 -> 4

Answer; d)2 -> 1 -> 3 - > 5 -> 4

3.Which of the following statements represent the advantages of using Continuous Integration (CI) and Continuous Deployment (CD):

a)Reduces overhead across the development and deployment process.b)Reduces the time and effort for integrations of different code changesc)Enables a quick feedback mechanism on every change

Answer; a)Reduces overhead across the development and deployment process.

4.Which of the following steps of CI/CD pipelines mainly focus on:

•Instant responses to bugs

•Reliable and stable releases

a)Continuous Integration

b)Continuous Delivery

c)Continuous Deployment

d)All of these Answer; b)Continuous Delivery

5.In the Software Development Life Cycle (SDLC), testing is a phase where developers check whether the software satisfies the specific requirements and expectations of the customer by testing for bugs and errors. Testing tools help testers find issues in their products before the users do, resulting in better quality software. You are using CI/CD pipelines in your software development process.

a)Wercker b)Terraform c)Google Chrome Developer d)Go continuous delivery

Answer; c)Google Chrome Developer

6.What are the benefits of using version control?

**Benefits of Version Control**

* Streamline merging and branching. ...
* Examine and experiment with code. ...
* Keep track of every change made to the code. ...
* Access every file's entire long-term modification history. ...
* Discover the ability to operate offline. ...
* Create regular, automated backups. ...
* Communicate through open channels.

7.Which are the top DevOps tools?

**Some of the most popular DevOps automation tools include Puppet, Chef, Ansible, and SaltStack.**

* Puppet is a configuration management tool that helps you manage your infrastructure as code. ...
* Chef is another configuration management tool that helps you automate the provisioning and management of your infrastructure.