QCM Exam DEVOPS

1. Which of the following statements are true regarding immutable servers ? Choose 2 correct answers.

A. In case of small changes, immutable servers must be rebuilt and redeployed.

B. Immutable servers store persistent data and can not be deleted without data loss.

C. Preparation and configuration tasks are moved from the time of deployment to the time of building.

D. Immutable servers cannot use external services such as databases and object stores.

E. All interactions with immutable servers have to happen through shared file systems.

2. If an application consists of multiple microservices which persist data and run on a container platform with multiple hosts. How many databases are typicalyy used ?

A One database per microservice

B One database per microservice instance

C One database per application

D One database per container host

E One database per container

3. Which of the following software developement processes are agile ? Chosse 2 correct

A KANBAN

B Rational Unified Process

C V-Model

D Scrum

E Waterfall

4. Which git command show the changes contained in the last three commits ?

git diff HEAD^^^

5. When compiling an application, the compiler raises an error related to line 587 of the file main.c. If the source code of the application is managed in a git repository, which command reports the last changes made to the erroneous of code ?

git blame -L 586,588 main.c

6. Which of the following goals belong to continuous delivery ? Choose 3 correct answers.

A Avoid uncessary deployments by grouping updates over a specific amount of time.

B Run the same artifacts in production that were used for testing .

C Provide immediate feedback about the functionality of source code changes.

D Minimize the number of automated unit and acceptance tests.

E Reduce the time from developing a feature to delivering it to clients.

7. How do unit tests work ?

A Professional testers run the application to manually investigate its behavior when using new feature.

B The test interacts with the elements of the user interface of the tested application to trigger specific actions.

C A compiler is called to verify the syntax and logic of the source code of the tested application.

D Methods are called with specific parameters and their effect is compared to the desired result.

E The external API of the tested service is called and the returned values are compared to the correct result.

8. What is A/B Testing ?

Two different versions of the same user interface are run in parallel to gather comparable metrics about the competing versions.

9. Which of the following post condition exist in a jenkins declarative pipeline ?

A always

B never

C pending

D success

E partial

10. Which of the following instructions in a Dockerfile can download a file via HTTP into the container image ?

A CURL

B COPY

C WGET

D ADD

E PLACE

11. Which of the following directives in a Dockerfile are evaluated when a new container is created from an existing image built from the Dockerfile ? Choose 2

A COPY

B ADD

C EXPOSE

D RUN

E CMD

12. Which of the following elements exist in a Docker Compose file ? Choose three

A volumes

B services

C containers

D nodes

E networks

13. In a docker Swarm, what is the unique property of a replicated service ? Choose 2

A it can run multiple times in the swarm

B it runs a shadow copy of each container on another swarm node

C it always runs all replicas on the same single node in the swarm

D it can run on an arbitrary number of swarm nodes

E il always runs on every node in the swarm.

14. Which of the following container properties are shared by all containers within a kubernetes Pod ? Choose 2

A all resources limits and requests

B all labels assigned to the containers

C The container base image

D the IP address and networking ports

E all storage volumes

15. What rôle does etcd play in a container cluster ?

Kubernetes stores its cluster configuration and runtime information in etcd.

16. Which cloud-init modules have to be used in order to partition a persistent volume, create file systems on the partitions and mount the file systems ? Choose 3

A mounts

B directories

C disk_setup

D volume_setup

E fs_setup

17. What is the default location of the ansible inventory configuration file ?

/etc/ansible/hosts.

18. What command line option instructs ansible-playbook to switch to a privileged user account before running tasks on a target system ?

--become-user

19. Which ansible keyword allows tasks to be run only under specific conditions ?

When.

20. Which ansible command is used to create and edit encrypted files which contain secrets used by ansible when configuring remote systems ?

Ansible-vault.

21. Which puppet subcommand applies a manifest to the local computer without requiring a Puppet Master ?

apply.

22. Which of the following kinds of metrics types can Prometheus collect ? Choose 3

A State

B Histogram

C Counter

D Dictionary

E Summary