Devops, Docker, Kubernetes, Ansible & Terraform BC-101

Points: **21/30**   Time: **47:45**

✓ **Correct** 1/1 Points

1. Kubernetes cluster data is stored in _____

○ Etcd

○ Kubelet

○ Kube-apiserver

○ None of them

✓ **Correct** 1/1 Points

2. What is a pod in Kubernetes and what does it do?

○ Where you find peas

○ One or more containers grouped together to share resources and run as a unit

○ A collection of physical IT components that supports a group of containers

○ A collection of logic circuitry that evaluates a computer's operationalcode

✕ **Incorrect**   0/1 Points

3. What is the default location of the Ansible inventory file?

○ /etc/ansible/hosts

○ /etc/ansible/inventory

○ /etc/ansible/hosts.ini

⦿ /etc/ansible/inventory.ini

✕ **Incorrect**   0/1 Points

4. What is the command used to run a command inside a running Docker Container?

○ docker cmd

○ docker run

⦿ docker exec

○ docker ls

✓ **Correct**   1/1 Points

5. In the following ansible module, what is the meaning of "become: yes"
   - name: install java using ansible
     become: yes
     apt:
       name: "{{packages}}"
       state: present
     vars:
       packages:

- openjdk-17-jdk

○ Execute the module in all hosts and return yes as the status

○ Return the list of hosts in which the module execution is success.

◉ Execute the module in host machines by-passing the user's input to download & install jdk-17.

○ None of the aboe

✓ **Correct**   1/1 Points

6. Which of the following is a core aspect of monitoring and observability in SRE?

○ Version control

◉ Metrics, logging, and tracing

○ Project management

○ Automated testing

✓ **Correct**   1/1 Points

7. Code in the Terraform language is stored in plain text files with the .... file extension.

○ json

○ .hcl

○ .xml

◉ .tf

✕ Incorrect   0/1 Points

8. What command must be run to configure the backend in Terraform?

○ Terraform fmt

◉ Terraform plan

○ Terraform init

○ Terraform backend

✕ Incorrect   0/1 Points

9. How does Docker differ from tradition virtualisation ?

○ Docker uses hardware-level virtualization

○ Docker provides less isolation of the underlying system

◉ Docker provides full isolation of the underlying system

○ Docker uses software level virtualisation

✓ Correct   1/1 Points

10. Which collaboration tool is commonly used for version control in DevOps?

○ Jenkins

○ Jira

◉ Git

○ Slack

11. What does the following Ansible Play do?
    - hosts: webservers
      tasks:
        command: /bin/touch ~/ansible.txt

   ◉ creates file in /bin folder of hosts identified by [webservers] in the inventory

   ○ creates file in $HOME folder of hosts identified by [webservers] in the inventory

   ○ creates file in $HOME folder of all hosts in the inventory

   ○ Invalid syntax

12. Terraform relies on plugins called ……….. to interact with remote systems.

   ○ Sliders

   ◉ Provider

   ○ Modules

   ○ None of the above

13. What is the basic operational unit of Kubernetes or K8S?

   ◉ Pod

○ Task

○ Nodes

○ Container

✓ **Correct**   1/1 Points

14. What is a key focus area of Site Reliability Engineering (SRE)?

○ Software development

○ Security testing

◉ System monitoring and reliability

○ Project planning

✓ **Correct**   1/1 Points

15. What happens when you apply Terraform configuration? Choose TWO correct answers.

☑ Terraform makes any infrastructure changes defined in your configuration.

☐ Terraform gets the plugins that the configuration requires.

☑ Terraform updates the state file with any configuration changes it made.

☐ Terraform corrects formatting errors in your configuration.

☐ Terraform destroys and recreates all your infrastructure from scratch.

✓ **Correct**   1/1 Points

16. Which one of the following can be considered as the primary data store of Kubernetes ?

○ pod

◉ etcd

○ node

○ None of the above

✕ **Incorrect**   0/1 Points

17. What the command used for listing containers ?

○ Docker run

○ Docker ls

◉ Docker ps

○ Docker build

✓ **Correct**   1/1 Points

18. Which of the following runs on each node and ensures containers are running in a pod?

○ Pod

○ Etcd

◉ Kubelet

○ Scheduler

✓ **Correct**   1/1 Points

19. What is the primary goal of the "Plan" stage in the DevOps lifecycle?

○ Code deployment

◉ Project management and planning

○ Infrastructure monitoring

○ Automated testing

✓ **Correct**   1/1 Points

20. An abstraction in kubernetes which defines a logical set of pods and a policy to access them.

○ Node

◉ Service

○ Container

○ Kubelet

✕ **Incorrect**   0/1 Points

21. What is a Docker image?

○ A running container

○ A snapshot of a container

◉ A blueprint for a container

A configuration file for a container

22. What is the difference between a Docker container and a Docker service?

○ A container is a running instance of an image, while a service is a set of containers that perform a specific task.

○ A container is a virtualized environment for running an application, while a service is a tool for managing Docker images.

○ A container is a lightweight and efficient way to package and run an application, while a service is a more complex tool for deploying and managing applications.

○ container and a service are the same thing.

23. In the shared responsibility model, who is responsible for ensuring secure coding practices?

○ Security team

● Developers

○ Operations team

○ Project managers

24. How can you execute an Ansible playbook?

○ ansible-playbook playbook.yml

○ ansible-play playbook.yml

○ ansible playbook.yml

◉ ansible-execute playbook.yml

✕ **Incorrect**   0/1 Points

25. What is the primary advantage of using Docker?

○ Improved application security

◉ Improved application performance

○ Improved application scalability

○ Improved application portability

✓ **Correct**   1/1 Points

26. What is a Dockerfile?

○ A configuration file for a Docker container

○ A configuration file for a Docker network

○ A configuration file for a Docker volume

◉ A configuration file for Docker Image.

✓ **Correct**   1/1 Points

27. What tool is used for managing Docker containers

○ DockerFile

○ Docker Registry

○ Docker Swarn

◉ Docker Compose

✓ **Correct**   1/1 Points

28. What is the purpose of a Docker volume?

◉ To store persistent data outside of the container file system

○ To store temporary data inside the container file system

○ To manage network traffic between containers

○ To manage container configuration and settings

✓ **Correct**   1/1 Points

29. Which of the following best describes a Terraform state file?

○ A file that contains a list of available Terraform providers

◉ A file that stores the current state of infrastructure managed by Terraform

○ A file that contains a list of Terraform modules used in a configuration

○ A file that stores the output of a Terraform plan

✓ **Correct**   1/1 Points

30. Terraform has .... major commands.

○ 2

○ 3

● 4

○ 6

Microsoft 365

Microsoft Forms | AI-Powered surveys, quizzes and polls Create my own form

Privacy and cookies | Terms of use