

The correct answer is: Communication between services and database interactions

Question 3 Correct Mark 0.25 out of 0.25	What's the purpose of automated testing in a CI/CD pipeline?  ■ a. To verify code quality and functionality before deployment  ■ b. To reduce developer workload permanently ■ c. To make code fail intentionally ■ d. To delay production release	<b>↑</b>
	Your answer is correct.  The correct answer is: To verify code quality and functionality before deployment	
Question 4 Correct Mark 0.25 out of 0.25	What does rate limiting help protect a service from?  a. Serverless function timeouts  b. Memory leaks  c. Receiving too many requests in a short time   d. Logging too much information	
	Your answer is correct.  The correct answer is: Receiving too many requests in a short time	
Question 5 Correct Mark 0.25 out of 0.25	<ul> <li>What is the main difference between authentication and authorization?</li> <li>■ a. Authentication verifies identity, authorization checks permissions </li> <li>□ b. Authentication checks permissions, authorization verifies identity</li> <li>□ c. Both mean the same</li> <li>□ d. Authentication applies to services only</li> </ul>	
	Your answer is correct.  The correct answer is: Authentication verifies identity, authorization checks permissions	

Question <b>6</b>	Which deployment strategy releases the new version to a small percentage of users before full rollout?
Correct	
Mark 0.25 out of 0.25	a. Blue-Green Deployment
	b. Rolling Deployment
	<ul><li>● c. Canary Deployment ⊙</li></ul>
	O d. Recreate Deployment
	Your answer is correct.
	The correct answer is: Canary Deployment
Question <b>7</b> Correct	What is a key requirement during microservice startup to ensure smooth deployment?
Mark 0.25 out of	a. Manual IP configuration
0.25	O b. UI rendering
	o. Long startup delays for testing
	<ul> <li>● d. Quick initialization and readiness probes ②</li> </ul>
	Your answer is correct.
	The correct answer is: Quick initialization and readiness probes
Question 8 Correct	Which practice helps in securing source code repositories?
Mark 0.25 out of	<ul><li>■ a. Enabling multi-factor authentication (MFA)</li></ul>
0.25	<ul> <li>b. Sharing admin access with all team members</li> </ul>
	c. Hardcoding credentials in code
	O d. Disabling version history
	Your answer is correct.
	The correct answer is: Enabling multi-factor authentication (MFA)

Question 9 Correct	Which pattern helps prevent a failed service from causing repeated failures in dependent services?
Mark 0.25 out of 0.25	a. Load Balancer
	<ul><li>● b. Circuit Breaker ⊙</li></ul>
	o. Rate Limiting
	d. Service Discovery
	Your answer is correct.
	The correct answer is: Circuit Breaker
Question 10 Correct	What is the main goal of zero-downtime deployment?
Mark 0.25 out of	<ul> <li>a. Avoiding service interruption during deployment ⊙</li> </ul>
0.25	○ b. Reducing CPU usage
	○ c. Improving UI design
	d. Increasing logging verbosity
	Your answer is correct.
	The correct answer is: Avoiding service interruption during deployment
Question 11 Correct	What is a common cause of cascading failures in a microservices architecture?
Mark 0.25 out of 0.25	<ul> <li>● a. Synchronous communication without timeouts ⊙</li> </ul>
	<ul> <li>b. Too many load balancers</li> </ul>
	o. Excessive logging
	O d. Using REST APIs
	Your answer is correct.
	The correct answer is: Synchronous communication without timeouts

Question 12 Correct Mark 0.25 out of 0.25	What does the "Single Service Instance per Host" model imply?  a. A single server runs all services  b. Each host runs exactly one instance of a service ⊙  c. Services are not deployed on hosts  d. Services use static IPs only
	Your answer is correct.  The correct answer is: Each host runs exactly one instance of a service
Question 13 Correct	What is the purpose of using retries in service communication?
Mark 0.25 out of 0.25	<ul> <li>a. To ensure requests are logged</li> <li>b. To overload the service intentionally</li> <li>c. To handle transient failures by reattempting the request ⊙</li> <li>d. To introduce delay in processing</li> </ul>
	Your answer is correct.  The correct answer is: To handle transient failures by reattempting the request
Question 14 Correct	In the "Multiple Static Services per Host" model, what's a key limitation?
Mark 0.25 out of 0.25	<ul><li>a. Load balancing is built-in</li><li>b. No need for containerization</li></ul>
	<ul> <li>● c. Deployment is tightly coupled to the host ⊙</li> <li>O d. Dynamic scheduling is possible</li> </ul>
	Your answer is correct. The correct answer is: Deployment is tightly coupled to the host

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Question 15 Correct Mark 0.25 out of 0.25	What is a container in the context of microservices? <ul> <li>a. A lightweight, isolated environment to run software ⊙</li> <li>b. A form of database</li> <li>c. A networking protocol</li> </ul>
	O d. A physical server  Your answer is correct.  The correct answer is: A lightweight, isolated environment to run software
Question 16 Correct Mark 0.25 out of 0.25	What is a drawback of the "Single Service Instance per Host" model?  o a. Poor resource utilization  o b. Enhanced scaling o c. Better fault tolerance o d. Easy to manage
	Your answer is correct.  The correct answer is: Poor resource utilization
Question 17 Correct Mark 0.25 out of 0.25	Which repository pattern is more suitable for highly independent teams working on separate services?  o a. Multi-repo o  b. Mono-repo  c. Git submodules  d. Hybrid repo
	Your answer is correct. The correct answer is: Multi-repo

Question 18	In serverless deployments, how is scaling handled?
Correct	
Mark 0.25 out of 0.25	a. Manually by the admin
	○ b. Not supported
	<ul> <li>● c. Automatically by the cloud provider based on request volume </li> </ul>
	<ul> <li>d. Through container orchestration</li> </ul>
	Your answer is correct.
	The correct answer is: Automatically by the cloud provider based on request volume
Question 19 Correct	Which component is commonly used in a service mesh for proxying traffic between services?
Mark 0.25 out of	a. Load Balancer
0.25	<ul><li>● b. Sidecar Proxy ②</li></ul>
	O c. API Gateway
	O d. Firewall
	Your answer is correct.
	The correct answer is: Sidecar Proxy
Question <b>20</b> Correct	What role does a load balancer play in microservice architecture?
Mark 0.25 out of 0.25	<ul> <li>● a. It distributes incoming traffic across multiple service instances ②</li> </ul>
	<ul> <li>b. It directly stores logs</li> </ul>
	○ c. It encrypts data
	O d. It compiles services
	Your answer is correct.
	The correct answer is: It distributes incoming traffic across multiple service instances
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