1. You need to ensure your web application's compute resources can scale dynamically based on workload. However, you only want to pay for services you use. Additionally, due to privacy concerns, you must ensure data is stored in your on-premises data center.

Which cloud model should you select?

A. Hybrid cloud

B. Private cloud

C. Community cloud

D. Public cloud

1. What are three benefits of containers when compared to VMs? (Choose 3.)

A. Containers can be created in less than a second.

B. Containers do not support microservice design.

C. Containers contain only the application and its libraries and dependencies.

D. Containers utilize more resources than VMs alone.

E. Containers add little or no overhead to the host machine.

1. The marketing department has been using a SaaS solution that manages sensitive personally identifiable information (PII) for customers. They would like to subscribe to a new solution that has additional features. The contract for the current SaaS solution expires in 10 days. The contract for the new solution will not be in place in time.

What should you advise the marketing department?

A. Work with the current SaaS provider to extend the license until the new provider contract is in place.

B. Find an open-source solution and move all customer data there until the new contract is in place.

C. Move to a Platform as a Service (PaaS) solution and build their own custom solution.

D. Continue to use the expired SaaS solution until the new contract is in place. There's always a grace period.

1. Several development units are building software services that will be deployed in the cloud as parts of a single solution. You need to ensure that each team can choose its underlying technology stack and make changes at its own pace.

Which architecture pattern achieves the goal with maximum flexibility?

A. Microservices architecture

B. Event-driven architecture

C. Client-server architecture

D. Layered (n-tier) architecture

1. Your company uses virtual desktop infrastructure (VDI) to provide employees with a cloud-based desktop. One user complains that they cannot access internet resources. No other users report issues.

What should you verify first?

A. Virtual desktop's IP configuration

B. Configuration of the DNS server

C. Outbound firewall rules

D. User's authorization roles

1. You need to ensure that data sent from end users to your cloud-based server is encrypted while in motion.

Which technology should you use?

A. SHA-256

B. Multifactor authentication (MFA)

C. Intrusion Prevention System (IPS)

D. Transport Layer Security (TLS)

1. The computational processing for your organization's website is performed on cloud-hosted VMs. You expect a lot of website traffic during the holiday season. You need to stay within a fixed budget while still maintaining the ability to scale up VMs to serve the potential increase in traffic.

What will help you achieve this?

A. Implement VM replication

B. Implement auto-scaling

C. Reserve VM instances

D. Create fixed-size VMs

1. You need to secure the data at rest in your SaaS cloud implementation.

Which two actions should you perform? (Choose 2.)

A. Encrypt data

B. Audit access

C. Implement TLS

D. Validate input

E. Install updates

1. You need to create a Continuous Integration/Continuous Deployment (CI/CD) pipeline. In which order should you complete the actions? Move all the actions to the answer area and place them in the correct order.

Actions

* Deployment (put the application on the server)
* Test (perform smoke, unit, integration tests)
* Build (compile the application)
* Source (store the changes in Git)

Ans:

The correct order of actions for a CI/CD pipeline is:

1. Source (store the changes in Git)
2. Build (compile the application)
3. Test (perform smoke, unit, integration tests)
4. Deployment (put the application on the server)
5. You plan to deploy an application designed on a microservice architecture.

You need to guarantee portability, scalability, and reliability while minimizing costs.

What should you do?

A. Create a standalone VM and deploy an instance of the application on it.

B. Containerize the application and deploy it in a multi-node cluster with three replicas.

C. Containerize the application and deploy it on a standalone machine with only one replica.

D. Dedicate three physical servers and deploy instances of the application on them.

1. Your company has discovered a bug and is deploying a patch to your PaaS application. Static application security testing will need to be performed.

Who is responsible for performing this testing?

A. Cloud service provider

B. Cloud architect

C. Cloud customer

D. Cloud auditor

12. What is a benefit of moving your e-commerce application from an on-premises data center to the cloud?

A. The application can scale in response to increased workloads.

B. Your organization will not require redundant internet connections.

C. The application will be immune to Denial of Service (DoS) attacks.

D. You have more control over physical server hardware.

13. What is a benefit of locating your company's web servers in different availability zones in the same region?

A. Improved reliability

B. Reduced latency

C. Reduced costs

D. Increased network speeds

14. During a company meeting you mention cloud technology. The owner asks you about characteristics of the cloud.

Which two characteristics should you mention? (Choose 2.)

A. Less downtime

B. No responsibility for data privacy

C. Lower capital expenditures

D. No responsibility for security

E. Better control over the hardware

15. Several employees who work remotely report that they are unable to connect to cloud services from home using their personal devices. They don't have this problem connecting with company-issued devices.

What should you do first?

A. Advise them that it's a home network issue and they should call their Internet Service Providers.

B. Check that they have enrolled their devices according to BYOD policy.

C. Advise them to request additional access. This seems like a permissions issue.

D. Check that they are using the correct PIN when prompted for MFA.

16. Move each component from the list on the left to the correct location on the right.

Note: You will receive partial credit for each correct response.

Components:

* Containers
* CPUs
* DNS
* Block

A screen shot of a computer

Description automatically generated

* Containers -> Application Level
* CPUs -> Processing Level
* DNS -> Network Level
* Block -> Storage Level

17. Complete the sentence by moving the appropriate phrases from the list on the left to the correct locations on the right. You may use each phrase once, more than once, or not at all.

Phrases:

* underlying layers
* upper service layers
* external service layers
* internal service layers
* underlying layers
* upper service layers
* internal service layers
* external service layers

In general, characteristics of performance measures of the upper service layers depend on those characteristics in the underlying layers (for example, SaaS layer scalability depends on IaaS layer scalability).

18. What is a benefit of cloud storage?

A. Reduced WAN utilization

B. Better data redundancy

C. Increased control of hardware

D. Increased control over software updates

19. Your organization hosts a cloud application with a large Cloud Service Provider (CSP).

You need to store the application encryption keys using the solution that typically provides the best combination of security, cost, and convenience.

What should you do?

A. Generate keys and store them on a USB flash drive managed by your Chief Security Officer.

B. Generate keys and store them with a CSP other than the one hosting your application.

C. Hard-code security keys into the application.

D. Use the Key Management Service provided by the CSP.

20. What should you use to build Identity and Access Management (IAM) cloud authorizations for an action?

A. Labels

B. Tags

C. Users

D. Roles

21. Your company wants to evaluate using a customized cloud solution to manage department revenue. They have only limited time to do this.

Which type of cloud solution will give them the greatest chance to get the functionality to the prototype phase?

A. Platform as a Service (PaaS)

B. Operations as a Service (OaaS)

C. Infrastructure as a Service (IaaS)

D. Off-the-shelf (OTS) solution

22. Which resource would you implement to allow remote-working internal users of your cloud infrastructure access to company resources through a secure tunnel?

A. Public key infrastructure (PKI)

B. Domain Name System (DNS)

C. Identity and access management (IAM)

D. Virtual Private Network (VPN)

23. Your company has a rule that data cannot leave the facility. Which cloud computing type should you evaluate?

A. Hybrid cloud

B. Peer-to-Peer cloud

C. Public cloud

D. Private cloud

24. Your colleague has developed an application. The source code is in GitHub.

You need to add a new feature to the project in a fresh development environment.

In which order should you complete the actions? Move all the actions to the answer area and place them in the correct order.

Actions:

* Store the changes and upload them to GitHub.
* Download the project from GitHub.
* Install the prerequisite packages in the project.
* Add the new functionality by writing code and test your changes.

Actions in Order:

1. Download the project from GitHub.
2. Install the prerequisite packages in the project.
3. Add the new functionality by writing code and test your changes.
4. Store the changes and upload them to GitHub.

25. You plan to host virtual desktops in the cloud using a private subnet protected by a firewall. You need to ensure that each desktop can access the internet.

Which technology should you deploy?

A. Secure Sockets Layer (SSL)

B. Domain Name System (DNS)

C. Network Address Translation (NAT)

D. Intrusion Prevention System (IPS)

26. Your company's IT infrastructure is hosted in the public cloud.

You need to ensure that the infrastructure remains available during power outages.

Which public cloud feature supports this?

A. Automatic resource scaling.

B. Reimbursement for downtime per the SLA.

C. Geographical redundancy of compute and data infrastructure.

D. Granular resource monitoring through cloud provider dashboard.

27. Your organization is opening a new sales office in the European Union, making it subject to GDPR regulations. Your cloud application has instances running in the United States and Japan.

What should you do?

A. Set up an account with a cloud provider in the EU and store the EU customer data there.

B. File a report with the GDPR Data Protection Authority in the EU asking permission to store encrypted data in the U.S.

C. Set up encryption at both the U.S. and Japanese cloud instances to be able to store EU customer data.

D. Set up access policies to limit employee access to the EU customer data.

28. Which type of compute resource makes the most cost-effective use of unused capacity?

A. Clustered

B. Spot

C. Scaled

D. Serverless

29. As a cloud administrator for a public elementary school system, you have been asked to find ways to reduce the cost of using SaaS cloud services without negatively impacting operations or security for students and staff.

Which two actions should you perform? (Choose 2.)

A. Review subscriptions and disable those that have not been used.

B. Reduce on-demand data storage from two years to one year.

C. Disable multifactor authentication for nonsudent accounts.

D. Advise students and staff to use services only during school hours.

E. Require teachers to share accounts and reduce the number of licenses needed.

30. Which component of a version control system, such as GitHub, is responsible for storing code history?

A. Pull request

B. Repository

C. Push request

D. Fork

31. Your company's Chief Information Officer wants to move the company's on-premises applications to a public cloud-hosting provider. The Chief Financial Officer wants to know how this move might impact the company's finances.

Which two configuration options would be directly visible in the cloud-service provider's invoice? (Choose 2.)

A. Hiring new cloud administrators in the public cloud data center.

B. Maintenance of public cloud data center heating and cooling equipment.

C. Building new physical servers in the public cloud data center.

D. Selection of regional data storage in the public cloud data center.

E. Sizing of the selected VMs deployed in the public cloud data center.

32. You must develop a business continuity and disaster recovery (BCDR) plan for your SaaS application.

Which step would you, as the cloud customer, be responsible for?

A. Validating that data has been restored or replicated to a failover service.

B. Validating that access has been restored to cloud data center administrators.

C. Restoring the cloud network hosting infrastructure.

D. Restoring the VM operating system of the SaaS application to the latest patch level.

33. You are the cloud administrator for a SaaS billing application that is used by a Swedish utility company. You have been asked to develop a business continuity and disaster recovery (BCDR) strategy for this application.

Which decision should your plan document?

A. Sufficient workers in the cloud data center

B. Adherence to CCPA regulations

C. VMs that scale automatically

D. Backup hosting location

34. Your in-house software engineering team doesn’t have machine-learning expertise. They would like to experiment with integrating a dynamic chatbot into an existing offering.

Which cloud feature would allow them to do that without having to hire a machine-learning expert?

A. Platform as a Service (PaaS)

B. Infrastructure as a Service (IaaS)

C. Software as a Service (SaaS)

D. Off-the-shelf (OTS) solution

35. You are the cloud administrator of a publicly traded global healthcare company. The company uses both financial and patient-management SaaS solutions.

Which two regulations are relevant to the way you manage your cloud services? (Choose 2.)

A. BIPA

B. FERPA

C. HIPAA

D. SOX

E. COPPA

36. You are the cloud administrator for the SaaS e-commerce solution of a Canadian online retailer. The retailer has customers across Mexico, the United States, and the United Kingdom.

Which two privacy regulations must the e-commerce solution adhere to? (Choose 2.)

A. FERPA

B. APPI

C. GDPR

D. HIPAA

E. CCPA

37. You need to build a virtual machine. In which order should you complete the actions?

Move all the actions to the answer area and place them in the correct order.

Note: There is more than one correct order. You will receive credit for any correct order.

Actions:

* Set up inbound and outbound network rules
* Access cloud portal management plane
* Configure VM settings
* Set username and password to access the VM

One correct order to build a virtual machine is as follows:

1. Access cloud portal management plane
2. Configure VM settings
3. Set username and password to access the VM
4. Set up inbound and outbound network rules

38. You need to get geographical data from an external application using an API. The application requires a license.

How should you interact with the API?

A. Send a request for data without authentication and save the data in the API's database.

B. Send a request to the API with authentication information and the API responds with the requested data.

C. Send a request for data without authentication and the API responds with the requested data.

D. Send a request to the API with authentication information and the API updates its database.

39. You are designing an alerting system for an application that is deployed on a server. You want to be informed when system performance degrades.

For which three events should your system trigger an alert? (Choose 3.)

A. CPU rate is much higher than usual.

B. The application is approaching a critical resource limit.

C. Network traffic is relatively low.

D. Error rate exceeds a predefined threshold.

E. Memory utilization is lower than a predefined threshold.

40. Developers across your organization use the organization’s cloud infrastructure. They ask you to organize the compute, data, and storage needs of each department in a way that allows each department manager to see only the usage statistics, billing information, and access policies for the department they manage.

Which feature helps you achieve this?

A. Separate developer accounts

B. Separate availability zones

C. Separate hosting environments

D. Separate resource groups