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Exam : **CAS-003**

Title : CompTIA Advanced
Security Practitioner (CASP)

Version : DEMO

1.DRAG DROP

Drag and drop the cloud deployment model to the associated use-case scenario. Options may be used only once or not at all.

Use-case scenario	Cloud deployment model			
Large multinational organization wants to improve elasticity and resource usage of hardware that is housing on-premise critical internal services				
Collection of organizations in the same industry vertical developing services based on a common application stack				
Organization that has an orchestration but that integrates with a large on-premise footprint, subscribing to a small amount of external software services and starting to move workloads to a variety of other cloud models				
Marketing organization that outsources email delivery to An online provider				
Organization that has migrated their highly customized external websites into the cloud				
Community cloud with IaaS	Community cloud with PaaS	Community cloud with SaaS	Hybrid cloud	
Private cloud with IaaS	Private cloud with PaaS	Private cloud with SaaS	Public cloud with IaaS	
	Public cloud with PaaS	Public cloud with SaaS		

Answer:

Use-case scenario

Cloud deployment model

Large multinational organization wants to improve elasticity and resource usage of hardware that is housing on-premise critical internal services

Private cloud with IaaS

Collection of organizations in the same industry vertical developing services based on a common application stack

Community cloud with PaaS

Organization that has an orchestration but that integrates with a large on-premise footprint, subscribing to a small amount of external software services and starting to move workloads to a variety of other cloud models

Hybrid cloud

Marketing organization that outsources email delivery to An online provider

Public cloud with SaaS

Organization that has migrated their highly customized external websites into the cloud

Public cloud with PaaS

Community cloud with IaaS	Community cloud with PaaS	Community cloud with SaaS	Hybrid cloud
Private cloud with IaaS	Private cloud with PaaS	Private cloud with SaaS	Public cloud with IaaS
	Public cloud with PaaS	Public cloud with SaaS	

2.DRAG DROP

A security consultant is considering authentication options for a financial institution. The following authentication options are available. Drag and drop the security mechanism to the appropriate use case. Options may be used once.

Use case	Security mechanism
Where users are attached to the corporate network, single sign-on will be utilized	<input type="text"/>
Authentication to cloud-based corporate portals will feature single sign-on	<input type="text"/>
Any infrastructure portal will require time-based authentication	<input type="text"/>
Customers will have delegated access to multiple digital services	<input type="text"/>

Kerberos	oAuth
OTP	SAML

Answer:

Use case	Security mechanism
Where users are attached to the corporate network, single sign-on will be utilized	oAuth
Authentication to cloud-based corporate portals will feature single sign-on	SAML
Any infrastructure portal will require time-based authentication	OTP
Customers will have delegated access to multiple digital services	Kerberos



3.An infrastructure team is at the end of a procurement process and has selected a vendor. As part of the final negotiations, there are a number of outstanding issues, including:

Indemnity clauses have identified the maximum liability

The data will be hosted and managed outside of the company’s geographical location
The number of users accessing the system will be small, and no sensitive data will be hosted in the solution.

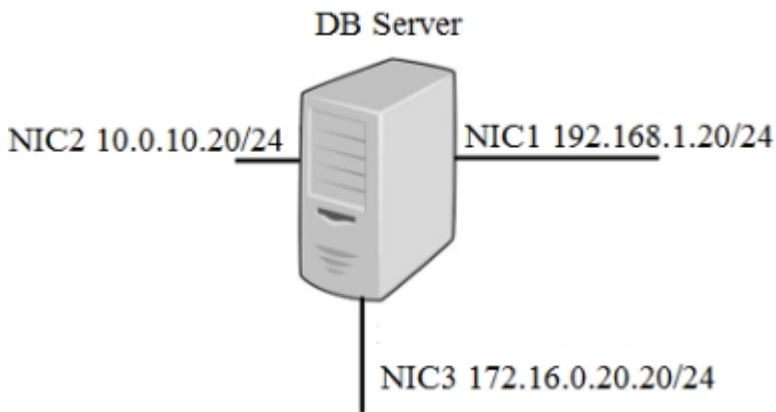
As the security consultant on the project, which of the following should the project’s security consultant recommend as the NEXT step?

- A. Develop a security exemption, as it does not meet the security policies
- B. Mitigate the risk by asking the vendor to accept the in-country privacy principles
- C. Require the solution owner to accept the identified risks and consequences
- D. Review the entire procurement process to determine the lessons learned

Answer: C

4.DRAG DROP

A security administrator must configure the database server shown below to comply with the four requirements listed.



Drag and drop the appropriate ACL that should be configured on the database server to its corresponding requirement. Answer options may be used once or not at all.

- 1) The DB server can only be managed from NIC3 via RDP from the sysadmin 10.100.2.0/24 network
- 2) The web server in the 10.10.10.0/25 network should connect to the DB via NIC1
- 3) The backup server at 172.30.10.3 should perform BD backups by connecting via the 192.168.1.0/24 network
- 4) The DB server should not initiate outbound connections on NIC2

Permit TCP from 172.16.0.20/32 to 10.10.10.0/25 port 1433	Permit TCP from 10.100.2.0/24 to 172.16.0.20/32 port 3389	Permit UDP from 192.168.1.20 to 172.30.10.3
Deny TCP from 10.0.10.20/24 to ANY	Permit IP from 172.30.10.3 to 10.100.2.0	Permit TCP from 10.10.10.0/25 to 192.168.1.20/24 port 1433
Permit TCP from 10.100.2.0/24 to 172.16.0.20/24 port 1433	Permit IP from 172.30.10.3 to 192.168.1.20	Deny IP from 10.0.10.20 to ANY

Answer:

- | | |
|--|---|
| 1) The DB server can only be managed from NIC3 via RDP from the sysadmin 10.100.2.0/24 network | Permit TCP from 10.100.2.0/24 to 172.16.0.20/32 port 3389 |
| 2) The web server in the 10.10.10.0/25 network should connect to the DB via NIC1 | Permit UDP from 192.168.1.20 to 172.30.10.3 |
| 3) The backup server at 172.30.10.3 should perform BD backups by connecting via the 192.168.1.0/24 network | Permit IP from 172.30.10.3 to 192.168.1.20 |
| 4) The DB server should not initiate outbound connections on NIC2 | Deny IP from 10.0.10.20 to ANY |

Permit TCP from 172.16.0.20/32 to 10.10.10.0/25 port 1433	Permit TCP from 10.100.2.0/24 to 172.16.0.20/32 port 3389	Permit UDP from 192.168.1.20 to 172.30.10.3
Deny TCP from 10.0.10.20/24 to ANY	Permit IP from 172.30.10.3 to 10.100.2.0	Permit TCP from 10.10.10.0/25 to 192.168.1.20/24 port 1433
Permit TCP from 10.100.2.0/24 to 172.16.0.20/24 port 1433	Permit IP from 172.30.10.3 to 192.168.1.20	Deny IP from 10.0.10.20 to ANY

5. A security administrator is hardening a TrustedSolaris server that processes sensitive data. The data owner has established the following security requirements:

- The data is for internal consumption only and shall not be distributed to outside individuals
- The systems administrator should not have access to the data processed by the server
- The integrity of the kernel image is maintained

Which of the following host-based security controls BEST enforce the data owner's requirements? (Choose three.)

- A. SELinux
- B. DLP
- C. HIDS
- D. Host-based firewall
- E. Measured boot
- F. Data encryption
- G. Watermarking

Answer: CEF