1 Consider that when designing the architecture of a web application, the architect intends to guarantee the confidentiality of persistent data in the face of an attack from a system administrator. Which tactic should be applied?

A It is not possible to achieve this requirement. A non-architectural solution is to be careful when hiring system administrators.

B It is necessary to use the authenticate authors tactic to authenticate system administrators before they access the database.

C It is necessary to use the encrypt data tactic to encrypt the information with a password that is in a configuration file.

✓ It is necessary to use the encrypt data tactic to encrypt the information on the client web browser, before it is sent to the web server.

2 Which tactic should be used in a system where there is sensitive data?

A Change default settings, because default passwords are sensitive.

B Limit exposure, locate the database system in the intranet.

C Limit access, to restrict the access to the database system.

✓ Separate entities, such that the sensitive data can be in a server where extra security tactics are applied.

3 Consider the following security scenario:

"When an identified user tries to execute a service for which she has no authorization, the system blocks the access to the service, informs the user that she has no permission, and the system continues its normal operation."

A The stimulus is of the type display data.

✓ Informs the user is part of the response.

C The identified user is the stimulus.

D The system blocks the access is the response measure.

4 Consider the design of YouTube. Which performance tactic should be applied to reduce the latency of the processing of an uploaded video?

A Maintain multiple copies of data.

✓ Introduce concurrency.

C Limit event response.

D Reduce computational overhead.

5 Consider the design of YouTube. Which quality can be improved by uploading a video using Group Of Pictures (GOP) instead of the whole video at once?

✓ Availability.

B Security.

C Performance.

D Modifiability.