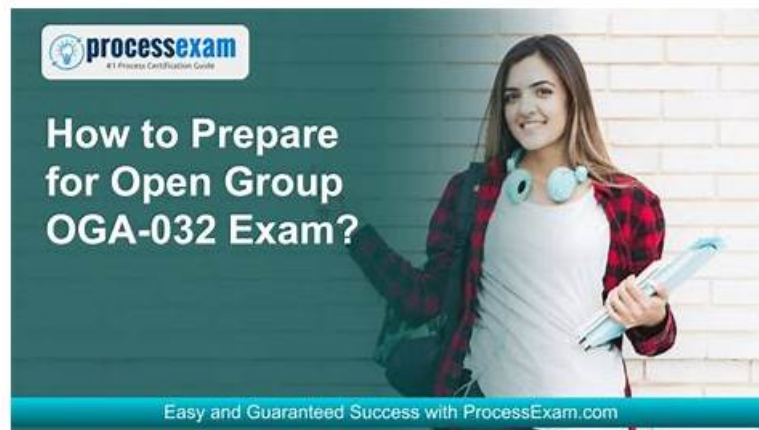


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The Open Group ArchiMate 3 Part 2 Exam Sample Questions (Q11-Q16):

NEW QUESTION # 11

Please read this scenario prior to answering the question

The ArchiSurance enterprise document management solution plays a crucial role in supporting a large number of document types and managing a high volume of document-based transactions each day. Given its business-critical nature, the document management solution is hosted redundantly across two geographically separate data center sites: Site A and Site B. Both sites are configured identically to ensure seamless operations.

Each site has a highly available data center network (DCN) that connects to the resilient ArchiSurance wide area network (WAN). Each claim management server is connected to its respective site's DCN, forming a converged network that interconnects servers and storage arrays. A dedicated physical storage array is allocated to the claim management application within each DCN. Additionally, each site houses four powerful physical servers exclusively dedicated to the claim management application.

Among these servers, one remains on standby at any given time, while the other three take on specific roles in hosting the document, workflow, and application engines.

The standby server is responsible for monitoring the behavior of the other servers, providing a logging and reporting service. The active servers regularly transmit data to facilitate this monitoring functionality. In the event of a server failure, the standby server steps in to perform resource reallocation, replacing the faulty server. However, this task requires manual intervention from a system administrator to reconfigure the logging and reporting service to adapt to the new environment.

Refer to the Scenario

The IT manager has asked you to model the hardware and networks that support the document management solution. This includes

capturing the infrastructure components such as data center sites, servers, storage, and networks. Additionally, you are expected to outline the necessary functionality and services required to enable failover within a server cluster. Given that both data centers share an identical configuration, it is sufficient for Site B to only show the associated networking. Which of the following is the best answer?

- A. A diagram of a server AI-generated content may be incorrect.
□
- B. A diagram of a software server AI-generated content may be incorrect.
□
- C. A diagram of a server AI-generated content may be incorrect.
□
- **D. A diagram of a server AI-generated content may be incorrect.**
□

Answer: D

Explanation:

We need to identify the most accurate and complete model that represents:

- * Infrastructure Components- Including data centers, servers, storage arrays, and networks.
- * Failover Capabilities- Showing the standby server's role in monitoring and switching functionality upon failure.
- * Redundant Setup- Ensuring the representation of both data centers (Site A and Site B), with Site B showing only networking.
- * Interconnectivity- Between servers, DCN, and WAN.

Why D is the Best Choice:

#All required infrastructure components are included, such as:

- * Physical servers (Document, Workflow, and Application Servers).
- * Standby Server for failover.
- * Claim Management Storage Array.
- * DCN (Data Center Network) for Site A and Site B.
- * ArchiSurance WAN for external connectivity.

#The Standby Server is correctly linked to logging, monitoring, and reporting, showing its role in monitoring and failover.

#Networking is modeled properly:

- * Both Site A and Site B have a DCN, correctly interconnecting storage and servers.
- * Site B does not duplicate servers but represents networking, as per the scenario.

#Functionality of Failover is Modeled Accurately:

- * Monitoring and reporting services are depicted.
- * Manual intervention by a system administrator is present.

Why Not A, B, or C?

- * A: Does not fully capture the network and storage relationships clearly.
- * B: Similar to A but misses some essential network connections.
- * C: Incorrect failover representation, and networking elements are not clearly depicted.

NEW QUESTION # 12

Please read this scenario prior to answering the question

The ArchiSurance senior management, board members, customers, and major stockholders have expressed long-standing concerns regarding the business continuity risks associated with relying on a single data center.

Located in an area prone

to flooding, earthquakes, and occasional water leaks from the cafeteria above, the current data center has significant vulnerabilities.

To address these concerns and mitigate the risks, ArchiSurance has developed a comprehensive plan to relocate its existing data center to two separate ready-to-use data centers in different cities. As a major undertaking, the approval of the Board of Directors is required to proceed with the project.

The primary objectives of the data center move are to reduce the risk of business interruptions, reduce both planned and unplanned downtime for critical applications, and provide reassurance to ArchiSurance stakeholders. Ensuring minimal disruption during the transition is crucial. However, several constraints make the planned migration to the new data centers particularly challenging. Certain critical ArchiSurance applications cannot be offline for more than one hour, and any planned downtime must be restricted to specific four-hour windows on weekends. Additionally, the migration cannot take place during quarterly or year-end closing periods to avoid disrupting critical processing operations.

ArchiSurance management has devised a multi-phase data center transformation program to facilitate a smooth transition. Each phase is critical for establishing stable and fully functional data center configurations throughout the transformation process. The initial phase entails detailed scheduling and planning to develop a comprehensive transformation plan aligned with ArchiSurance's timing and scheduling requirements. During the second phase, ArchiSurance will procure the necessary hardware and software for the new

data centers, while also seeking refunds for the hardware and software in the current data center once it is decommissioned. The third phase involves setting up the new data centers and conducting parallel testing of the new hardware and software alongside the existing production environment. The transition between the old and new data centers occurs in the fourth phase, followed by the fifth phase, which is the decommissioning of the old data center. This involves returning the hardware and software to obtain the contracted refunds. Each phase, from the second to the fifth, is initiated once specific conditions outlined in the previous phase have been met.

Refer to the Scenario

The program manager overseeing the data center transformation has asked you to model an outline of the implementation plan which has three stable states defined. You should show the deliverables associated with each plateau in connection with the physical elements. Additionally, you need to show how each phase contributes to achieving a stable state for the data center transformation. Which of the following answers provides the best description?

- A. A diagram of a software process Description automatically generated
-
- B. A diagram of a data center Description automatically generated
-
- C. A diagram of a software system Description automatically generated
-
- D. A diagram of a data processing process Description automatically generated
-

Answer: D

Explanation:

This question focuses on modeling the implementation plan for the data center transformation at ArchiSurance. The goal is to represent how the different phases of the project contribute to achieving the three stable states, or plateaus, while illustrating the deliverables connected to these plateaus and the physical elements involved.

Key ArchiMate® 3.2 Concepts Applied:

* Plateaus: Plateaus represent intermediate stable states within an architecture transformation, showing the condition of the architecture at specific moments in time. In this scenario, the plateaus correspond to the stable data center configurations at different phases:

* Plateau 1: Only the old data center is in use.

* Plateau 2: Both the old and new data centers are in use simultaneously.

* Plateau 3: Only the new data center is in use, and the old data center is fully decommissioned.

* Physical Elements: These refer to the data centers, hardware, software, and networks that make up the infrastructure being migrated.

These should be clearly depicted in connection with each phase of the transformation program.

* Deliverables and Phases: Each phase of the transformation process includes specific deliverables, such as:

* Procurement of new hardware and software.

* Setting up and testing the new data centers.

* Transitioning between the old and new data centers.

* Dismantling the old data center and returning its hardware for refunds.

* Work Packages and Dependencies: Work packages represent activities or tasks in ArchiMate® and are connected to the plateaus. These must be modeled with proper sequencing, showing how each phase contributes to reaching the next stable state.

Why Option A is Correct:

* Option A accurately represents the three plateaus (stable states) and clearly illustrates the deliverables (e.g., the new data center, tested hardware and software, and dismantled old data center) in relation to each phase of the transformation.

* The connections between the physical elements (such as the centralized data center, distributed data center, and backup data center) are properly displayed and aligned with the described multi-phase process.

* The phases are laid out logically, showing how each phase (e.g., procurement, testing, transition) leads to the next stable state (plateau), following the principles of a plateau and work package transformation in ArchiMate®.

* The flow of deliverables from one plateau to the next is consistent with the need for dependencies (e.g., the new data center cannot be fully active until the hardware and software have been tested in parallel).

Why Other Options Are Incorrect:

* Option B and Option D do not show the relationships between the phases and the stable states as clearly as Option A. They lack some critical connections or do not accurately represent the progression between plateaus and the physical infrastructure.

* Option C is closer but misses important sequencing in how the work packages (activities) and plateaus interact, leading to an incomplete representation of the transformation.

Conclusion:

Option A provides the most complete and accurate description based on ArchiMate® 3.2 modeling principles.

It correctly demonstrates how each phase of the data center transformation contributes to achieving the stable states (plateaus) and ensures that the physical elements, work packages, and deliverables are properly aligned.

NEW QUESTION # 13

Please read this scenario prior to answering the question

The ArchiSurance Mobile consumer solution is used for selling and renewing insurance products, providing customer service, enabling accurate and convenient home recordkeeping, and capturing and processing claims. The solution consists of three applications. The Consultant application lets customers review their existing coverage, and update it based on common life events, such as getting a new car, moving into a new home, or having a family member move in or out. If necessary, they can speak or chat with a customer service representative. The Home Manager application helps customers photograph and catalogue their valuable possessions in order to support the filing of accurate claims in case of loss or damage. The Claim Manager application enables customers to quickly file a claim for loss or damage to an insured auto, home or possession. It enables customers to describe the incident by referencing information captured with the Consultant and the Home Manager applications. In addition, it allows the customer to add photographs, audio, video and text to support a claim, submit the claim, and monitor its progress.

The ArchiSurance Mobile applications rely on a number of application services hosted by ArchiSurance. The first is an Auto Identification and Description (AID) service that the Consultant application uses to validate and complete auto information entered by customers. The second service, Home Identification and Description (HID) performs the same function for home information, and is used by the Home Manager application. The Consultant application also uses the Virtual Agent service to guide customers as they select coverage options, the Payment Processor service to arrange premium payments, and the Coverage Activator service to generate policies and put them in force.

ArchiSurance Mobile also relies on a number of technology services. The Home Manager application uses a Multimedia Repository service to store and retrieve information about insured homes. The Claim Manager application also uses this service for claim information entered by customers. All three ArchiSurance Mobile applications use a Personal Security service to register and authenticate customers, and to manage their profiles.

Each application service is realized by an application component with the same name. Each technology service is realized by a system software environment, having the same name. ArchiSurance hosts both the application components and system software environments in a virtualized server pool within its data center. Each service has its own virtual server. Each virtual server is connected to a data center network (DCN) which in turn connects to a commercial wide area network (WAN).

Refer to the Scenario

You have been asked to show the applications that make up the ArchiSurance Mobile solution and the technology that supports these applications.

Which of the following answers provides the best description? Note that it is not necessary to model the networks.

- A. A diagram of a server Description automatically generated
☐
- B. A diagram of a server Description automatically generated
☐
- C. A diagram of a computer server Description automatically generated
☒
- D. A diagram of a server Description automatically generated
☐

Answer: C

Explanation:

In this scenario, the focus is on modeling the ArchiSurance Mobile solution, showing the applications that make up this solution and the technology infrastructure that supports them. This includes applications, application services, and the system software environments (technology services) upon which the applications rely.

Key ArchiMate® 3.2 Concepts Applied:

* Application Components and Services:

* Consultant Application: This allows customers to review, update coverage, and speak with customer service representatives. It uses the following application services:

* Auto Identification and Description (AID) for validating auto information.

* Virtual Agent for helping customers select options.

* Payment Processor to arrange payments.

* Coverage Activator to generate and activate policies.

* Home Manager Application: This allows customers to catalogue possessions and use the Home Identification and Description (HID) service to validate home information.

* Claim Manager Application: Enables filing of claims, referencing data from the Consultant and Home Manager applications and storing information (such as photos, videos) via the Multimedia Repository.

* Technology Services:

* Personal Security Service: Used for customer registration, authentication, and profile management across all three applications.

* Multimedia Repository Service: Used to store and retrieve information related to home possessions and claim details, supporting

both the Home Manager and Claim Manager applications.

* Technology Infrastructure:

* Each application component (Consultant, Home Manager, Claim Manager) is hosted on its own virtual server within a virtualized server pool.

* Each technology service is realized by a corresponding system software environment (e.g., Multimedia Repository, Personal Security), each with its own virtual server.

* The infrastructure is hosted in a data center, but the focus here is on the services rather than the network connections.

Why Option C is Correct:

* Option C accurately represents the key applications (Consultant, Home Manager, Claim Manager) in connection with the appropriate technology services and their respective virtual servers.

* The model shows the relationships between the applications and their dependencies on Personal Security and Multimedia Repository, aligning with the description provided.

* The virtual server pool is depicted clearly, showing how the applications and services are realized within this infrastructure.

* The relationships between applications and application services (AID, HID, Virtual Agent, Payment Processor, Coverage Activator) are not modeled in full detail here, but they are implicitly understood through the applications.

Why Other Options Are Incorrect:

* Option A and Option D both incorrectly depict some relationships between the applications and their supporting technology services or servers, or miss certain dependencies.

* Option B does not provide as clear a depiction of the virtualized infrastructure and how the applications relate to the Multimedia Repository and Personal Security services.

Conclusion:

Option C provides the most accurate and complete description of the ArchiSurance Mobile solution and the supporting technology, as required by the scenario. It correctly illustrates the relationships between the applications, the virtual servers, and the supporting technology services according to ArchiMate® 3.2 principles.

NEW QUESTION # 14

Please read this scenario prior to answering the question

ArchiCar is a specialized company that focuses on manufacturing luxury electric cars and powertrain components, along with producing battery-charging equipment. With its own distribution network and showrooms, ArchiCar adopts a direct-to-customer sales model through online channels.

The manufacturing of ArchiCar's electric cars is carried out on fully automated assembly lines. Leveraging a cutting-edge manufacturing process, the company boasts an impressive ability to sell and deliver a vehicle within just one month from the time of order placement. Anticipating significant growth, the CEO has set ambitious plans to increase annual production from 100,000 to 500,000 vehicles within a three-year timeframe.

To ensure the highest quality standards, ArchiCar relies on locally manufactured finished steel from the renowned ArchiMetal plant. ArchiMetal specializes in lightweight steels that allow ArchiCar to achieve a reduced vehicle weight without compromising strength and crash performance. The finished steel is efficiently transported by rail to ArchiCar's production plant, where it is stored in a dedicated warehouse until required for the automated car assembly process. Conveyor belts facilitate the seamless transfer of the finished steel from the warehouse to the assembly plant.

At the ArchiCar assembly plant, an optimized and streamlined assembly process is implemented, resulting in the production of 12 vehicles per hour. Once assembled, the cars are transported to a nearby distribution center using specialized trucks.

These vehicles are then stored at the distribution center until they are ready for delivery to their eagerly awaiting new owners.

Refer to the Scenario

You are a consultant to the CIO. She has asked you to illustrate the end-to-end technology processes at ArchiCar from raw materials to assembled cars ready for delivery.

Which of the following answers provides the best description?

- A. A diagram of a vehicle assembly Description automatically generated
-
- B. □
- C. □
- D. □

Answer: C

Explanation:

In this scenario, the task is to model the end-to-end technology processes at ArchiCar, showing how raw materials (finished steel) are processed through the company's manufacturing, transportation, and distribution system, ultimately resulting in fully assembled cars ready for delivery.

Key ArchiMate® 3.2 Concepts Applied:

*** Business Processes:**

- * **Steel Making:** ArchiMetal manufactures finished steel, a key raw material for ArchiCar's production.
- * **Transportation:** The finished steel is transported by rail from the ArchiMetal steel plant to ArchiCar's warehouse.
- * **Storage:** The finished steel is stored in the ArchiCar Warehouse until it is required for the assembly process.
- * **Car Assembly:** The conveyor belt moves the steel from the warehouse to the assembly plant, where cars are assembled on automated lines.
- * **Transportation (Specialized Trucks):** Once assembled, the cars are transported to a distribution center using specialized trucks.
- * **Storage (Distribution Center):** The finished cars are stored in the distribution center, awaiting delivery to customers.
- * **Application and Technology Components:**
- * **Conveyor Belt:** The transfer of finished steel between the warehouse and assembly plant is automated via the conveyor belt.
- * **Rail Transport and Specialized Trucks:** Rail transport handles the movement of steel, and specialized trucks are used for car transportation to the distribution center.
- * **End-to-End Flow:**

* The model needs to clearly depict the full process flow from the production of steel, through its transportation and storage, to the automated assembly of luxury cars and their eventual transportation to the distribution center.

* The relationships between processes (e.g., steel making, transportation, car assembly, and storage) must be clear and follow the logical flow of operations.

Why Option D is Correct:

- * Option D provides a clear and accurate representation of the end-to-end process as described in the scenario.
- * It begins with the steel-making process at the ArchiMetal steel plant and follows through with the transportation of the finished steel to the warehouse by rail transport.
- * The process of moving steel via the conveyor belt from the warehouse to the assembly plant for car manufacturing is clearly depicted.
- * Once cars are assembled, they are transported to the distribution center using specialized trucks and are then stored until delivery, completing the end-to-end flow.
- * The relationships between processes and supporting components (e.g., conveyor belt, transportation methods) are clearly illustrated, following ArchiMate® standards.

Why Other Options Are Incorrect:

- * Option A is incorrect because it misses some key elements of the process. It does not fully clarify the role of the warehouse or how the finished steel is transported between locations.
- * Option B misrepresents the process flow, particularly the storage and assembly process. The connection between steel production and car assembly is not as clearly illustrated.
- * Option C also lacks clarity in how the finished steel is moved from the warehouse to the assembly plant, and it does not accurately capture the flow of transportation and storage after car assembly.

Conclusion:

Option D is the best answer because it provides the most complete and clear description of the end-to-end technology processes at ArchiCar, from raw materials (finished steel) to assembled luxury cars ready for delivery. It aligns well with the scenario and adheres to ArchiMate® 3.2 modeling standards, showing all necessary relationships between business processes and supporting components.

NEW QUESTION # 15

Please read this scenario prior to answering the question

ArchiSurance has decided to leverage its financial expertise by offering defined contribution retirement plans.

Each trading day, ArchiSurance submits consolidated mutual fund trading transactions to a stock exchange on behalf of its retirement plan participants.

The daily mutual fund trading cycle consists of four key processes: Transaction capture, pricing, trading and reconciliation.

Transaction capture consists of two sub-processes: manual exchange and loans and distributions (L&D). For transaction capture, retirement plan participants use an online account management application to enter manual fund exchange transactions. For L&D, plan participants use a separate application to enter requests. The L&D application determines whether the request can be fulfilled based on the mutual fund balances held in each plan and a set of business rules. Each day's captured manual exchange transactions accumulate in a transaction database.

ArchiSurance contracts with a third-party information service to receive a file of mutual fund prices at the close of each trading day.

The pricing application uses this file to convert captured transaction into trades, and then validates each trade against the mutual fund balances held in each plan. The pricing application generates a trade file with the minimum number of trades necessary. The trading application sends this file to an external trading service. When the trading application receives a confirmation file back from the trading service, it passes it to the reconciliation application, which updates the plan recordkeeping database.

The lead application Architect has decided to merge the pricing application, the trading application and the reconciliation application into one application, which will be serving the pricing, trading and reconciliation processes respectively. The reason for this is that maintenance costs for these three components are too high and the performance is too slow. This implementation will increase the performance and lower the maintenance cost significantly.

The CIO has agreed on this plan, but wants this to be done in two phases, each in a separate project. Phase 1 should include the merger of the Trading and Pricing applications. Phase 2 should then merge the merged applications with the Reconciliation application respectively. Each project phase has a number of defined deliverables. Phase 1 has two deliverables, 'TraPri application implemented and tested' and 'Active TraPri application', which together form a first transition architecture. Phase 2 has two deliverables, 'Recon 2.0 application implemented and tested' and 'Back-up applications phased out', which together form the second transition architecture. These two projects are part of the ArchiSurance application integration program scheduled for the next 6 months.

Refer to the Scenario

You have been asked by the lead application architect to show how the applications used for daily trading can be migrated. This should include a description of the work packages, deliverables and transition architectures.

Which of the following answers best describes the applications and migration plan?

- A. A diagram of a process flow AI-generated content may be incorrect.
☐
- B. A diagram of a process AI-generated content may be incorrect.
☐
- C. A diagram of a trading application AI-generated content may be incorrect.
☐
- **D. A diagram of a process flow AI-generated content may be incorrect.**
☐

Answer: D

Explanation:

We need to determine the best model that:

- * Shows the current applications and their functions- Pricing, Trading, and Reconciliation applications.
- * Represents the migration phases-
 - * Phase 1: Merges the Trading and Pricing applications into TraPri.
 - * Phase 2: Merges TraPri with the Reconciliation application to create Recon 2.0.
- * Includes transition architectures- Each phase has distinct deliverables marking the transition from old applications to new merged applications.
- * Shows the work packages and dependencies- The sequence of activities leading to the final implementation.

Why D is the Best Choice:

#Clearly distinguishes baseline (existing) applications and the new applications after the migration. # Illustrates the two transition states correctly-

- * First transition: Implementation and activation of the TraPri application.
- * Second transition: Implementation of Recon 2.0 and phase-out of backup applications. #Depicts the migration process sequentially- Ensuring a clear understanding of how the applications evolve over time. #Work packages and deliverables are well structured- Aligning with the phases described in the scenario.

Why Not A, B, or C?

- * A: Does not correctly represent the transition phases and their deliverables.
- * B: Lacks clarity in differentiating baseline applications from transition architectures.
- * C: Misrepresents dependencies and transition states, making the migration process unclear.

NEW QUESTION # 16

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