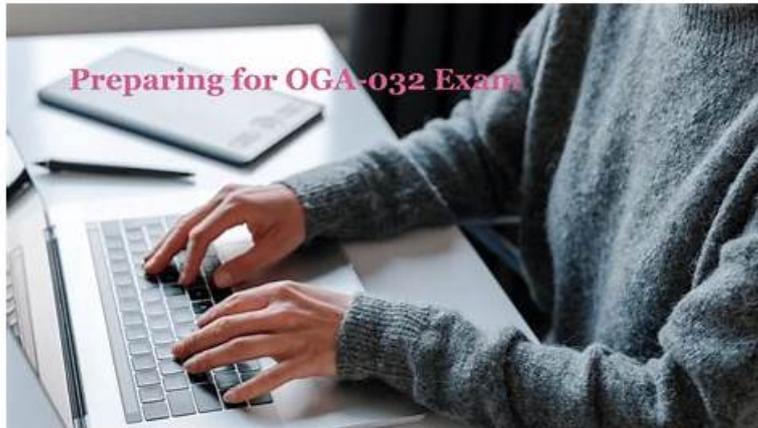


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## The Open Group ArchiMate 3 Part 2 Exam Sample Questions (Q10-Q15):

### NEW QUESTION # 10

Please read this scenario prior to answering the question

The ArchiSurance enterprise document management solution includes a sophisticated ecosystem of applications and technologies. Designed with a strong emphasis on high availability, it plays a vital role in providing support for a diverse range of document types and managing a substantial volume of document-based transactions on a daily basis.

Recognizing its importance to the business, the document management solution is redundantly hosted at two geographically separate data center sites, both configured identically for seamless operations.

The system software at the core of the document management solution is comprised of three key modules.

The Document Engine serves as a repository, facilitating document storage, retrieval, and various other operations. The Workflow Engine acts as a host for document management applications, while the Application Engine powers the most advanced and sophisticated applications within the system.

Two key factors have driven the Architecture Board's approval of a project aimed at updating this critical solution. Firstly, the supplier of the Workflow Engine has given notice of the end of support for the current software version, necessitating an upgrade.

Secondly, the system administrator responsible for the Application Engine has flagged the need for hardware replacement on the server where the software is currently running. Given that the Claim Management application shares infrastructure with the Application Engine, the involvement of the system administrator responsible for this application is crucial in the project planning and execution.

Refer to the Scenario

You are the Enterprise Architect within this organization. You have been assigned the task of modeling the applications and technology for this solution, as well as outlining the motivations driving the need for its update.

Based on the scenario, which answer provides the most complete and accurate description?

- **A. A diagram of software development Description automatically generated**  
□
- B. A diagram of a software project Description automatically generated  
□
- C. A diagram of software development Description automatically generated  
□
- D. A diagram of software development Description automatically generated  
□

**Answer: A**

Explanation:

This scenario revolves around ArchiSurance's document management solution and the motivations behind updating the solution due to software and hardware challenges. The task is to model both the applications and technology components involved, along with the motivations driving the need for an update.

Key ArchiMate® 3.2 Concepts Applied:

\* Applications and Components:

\* Claim Management Application: This application handles key processes such as filing claims and assigning claims, and it shares infrastructure with the Application Engine.

\* Document Management Solution: Includes several subsystems such as:

\* Document Engine: Manages document storage, retrieval, and processing operations.

\* Workflow Engine: Facilitates document workflows and supports document-related operations.

\* Application Engine: Hosts sophisticated applications like Claim Management.

\* Data Objects:

\* Proof of Loss Documents and Proof of Loss Data are critical components managed by the Document Management Solution. This data is processed and handled by both the Document Engine and the Claim Management application.

\* Technology and Infrastructure:

\* Hardware Platform Needs Replacing: The Application Engine runs on hardware that needs replacement. This drives a part of the motivation for updating the infrastructure.

\* Software Version Needs to Be Updated: The Workflow Engine is running on outdated software, necessitating an upgrade to ensure continued support and functionality.

\* High Availability of Infrastructure: Given that the system is redundantly hosted across two data centers, high availability is crucial for seamless operations. This includes continuous availability for the document management processes.

\* Motivations and Drivers:

\* The end-of-support notice from the Workflow Engine supplier requires an upgrade to maintain operational continuity.

\* The system administrator responsible for the Application Engine has raised concerns about hardware needing replacement, adding urgency to the infrastructure upgrade.

Why Option D is Correct:

\* Option D provides the most comprehensive representation of the applications, infrastructure, and motivations for updating the solution.

\* It clearly shows the Claim Management Application and its interaction with the Claim Assignment Business Rules Data, as well as how it relies on the Application Engine.

\* The Document Management Solution and its subsystems (Document Engine, Workflow Engine, and Application Engine) are correctly depicted, with clear relationships to the data they manage (Proof of Loss Documents and Data).

\* The motivations for change—specifically, the need to update the Workflow Engine software and replace the hardware platform—are clearly shown, alongside their impact on the overall system.

\* The diagram shows the involvement of the system administrator in the update process, which is important for ensuring smooth project execution.

Why Other Options Are Incorrect:

\* Option A and Option B do not accurately capture all necessary relationships, particularly the connections between the Claim Management application and its reliance on the Application Engine infrastructure. They also miss some of the drivers related to the required hardware replacement.

\* Option C omits some key details regarding how the Claim Management Application and Document Management Solution components interact with the system, particularly the Claim Assignment Business Rules Data and Proof of Loss Data.

Conclusion:

Option D is the best answer because it offers the most complete and accurate representation of the applications, technology infrastructure, and drivers for the update project. It clearly illustrates how the Claim Management and Document Management systems work together, along with the necessary infrastructure updates, in line with ArchiMate® 3.2 modeling standards.

## NEW QUESTION # 11

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 transactions 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 causes the reconciliation application to update the plan recordkeeping database.

The account management and L&D applications are hosted on separate application server clusters. Each cluster is a physically separate host that runs application server software on a set of virtualized hosts. All of these applications use a database server infrastructure that is hosted on another separate cluster of virtualized servers also on a dedicated physical host. The pricing, consolidation, trading and reconciliation applications, however, are batch applications that run on the ArchiSurance mainframe computer. All application hosts are connected via a converged data center network (DCN), which also connects them to a storage area network (SAN) as well as a wide area network (WAN) that is used to communicate with the external trading service. The SAN includes two physically separate storage arrays, one of which holds data for all databases, and another that holds data for all files.

Refer to the Scenario

The systems analysts would like to better understand the business processes and applications for daily fund trading. You have been asked to describe the business processes and sub-processes, the applications that they use, the data objects accessed by those applications, and the external application services that access some of those data objects.

Which of the following is the best answer? Note that you are not required to model the business actors/roles.

- A.
- B.
- C.
- D.

**Answer: D**

Explanation:

In this scenario, the goal is to model the business processes, their sub-processes, the applications supporting these processes, and the data objects these applications access. Additionally, external services that access some of these data objects need to be shown. This includes capturing the key processes and their dependencies, as well as understanding how the applications interact with data and external services.

Key ArchiMate® 3.2 Concepts Applied:

\* Business Processes and Sub-Processes:

\* Transaction Capture Process: Consists of two sub-processes:

\* Manual Exchange

\* Loans & Distribution (L&D) This process is responsible for capturing transactions from users through different applications (Online Account Management, L&D Application).

\* Pricing Process: This process uses the Mutual Fund Prices from a third-party service and the Plan Balances to validate and price trades.

\* Trading Process: This process generates a Trade File and interacts with an external Trading Service.

- \* Reconciliation Process: This final process updates the Plan Recordkeeping Data after confirming trades from the External Trading Service.
- \* Applications and Data:
- \* Online Account Management Application and L&D Application: These capture user inputs for transactions and maintain Transaction Data and Plan Balances.
- \* Pricing Application: Uses Mutual Fund Prices and Transaction Data to generate Trade Data.
- \* Trading Application: Submits Trade Data and receives a Confirmation File from the external Trading Service.
- \* Reconciliation Application: Uses the Confirmation File to update Plan Recordkeeping Data.
- \* External Application Services:
- \* Third-Party Information Service: Provides Mutual Fund Prices.
- \* External Trading Service: Processes trades and returns a Confirmation File.
- \* Data Objects:
- \* Transaction Data: Captured by the transaction capture processes.
- \* Mutual Fund Prices: Received from the third-party service.
- \* Trade Data: Generated by the pricing and trading applications.
- \* Plan Recordkeeping Data: Updated by the reconciliation process after trade confirmation.

Why Option B is Correct:

- \* Option B provides the most complete and accurate representation of the scenario. It captures the business processes (Transaction Capture, Pricing, Trading, Reconciliation) and their sub-processes, while showing the appropriate connections to the applications that support these processes.
- \* It clearly depicts the data objects (Transaction Data, Plan Balances, Trade File, Mutual Fund Prices, Plan Recordkeeping Data) and their flows between the processes and applications.
- \* The model also includes the external services (Third-Party Information Service and External Trading Service), showing how these interact with the internal applications and data objects.
- \* It accurately represents the flow of Trade Data from the Pricing Application to the Trading Application, and the use of Mutual Fund Prices by the Pricing Process.

Why Other Options Are Incorrect:

- \* Option A and Option D miss some critical connections between the applications and the external services. They also lack clarity in how the data flows between the processes and applications.
- \* Option C does not adequately represent the interaction between the applications and the external services (e.g., Third-Party Information Service), which is a key requirement in this scenario.

Conclusion:

Option B provides the best and most accurate description of the business processes, applications, data objects, and external services involved in ArchiSurance's daily fund trading operations, following ArchiMate® 3.2 standards for modeling business processes and applications.

## NEW QUESTION # 12

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 server Description automatically generated  
□
- **D. A diagram of a computer server Description automatically generated**  
□

**Answer: D**

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 pools are 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 # 13

Please read this scenario prior to answering the question

ArchiCar has been a market leader in the premium priced luxury car sector for the last decade. Its product leadership strategy has brought superior products to market, and enabled ArchiCar to achieve premium prices for its cars. This strategy has been widely successful in the past, but recently competitors have been offering comparable products and taking significant market share. The governing board of ArchiCar has identified opportunities in emerging markets where the ArchiCar brand is associated with luxury and high performance products, but is thought to be too expensive for mass-market success.

Based on this assessment, the board has made the decision to setup a subsidiary company to mass-produce affordable cars locally. This will be achieved by focusing on a strategy of operational excellence. Such a strategy is ideal for such markets where customers value cost over other factors.

To facilitate this strategic transformation, the project has been divided into multiple phases within a five-year program. The initial phase, known as "Achieving Operational Excellence," is underway. The engineering team has begun devising an action plan to drive the necessary changes and outlining the technological conditions that must be met. The product architect has identified three current capabilities - industry-leading engineering, high-quality materials sourcing, and cutting-edge focused R&D - along with their contributions to the new production philosophy.

Moving forward, it has been determined that two out of the three current capabilities require revision.

Materials sourcing needs to be adjusted to meet optimization demands, and R&D targets must align with future goals to enable affordable production.

Additionally, process engineering is introduced as a fourth capability to shift the company's focus from products to a process-oriented approach.

The Enterprise Architecture team has been tasked with migration planning, and identifying keywork packages and deliverables. They have identified two transition states between the current and future scenario. The first transition aims to adjust current capabilities, including revising the R&D approach and procurement strategy. The second transition aims to shift from a product-centric mindset to a process-focused approach and adjust materials sourcing accordingly.

It is important to consider existing supplier contracts that cannot be immediately canceled during this process.

The Enterprise Architecture team has identified that the second transition must implement a process framework, in order to shift to a process focus and meet a number of requirements, including the requirement for end-to-end process thinking. As this requirement impacts procurement processes, it also impacts the procurement strategy.

Refer to the Scenario

You have been tasked with modeling the current capabilities of ArchiCar, identifying the capabilities necessary for the company to achieve Operational Excellence, and showing the motivations behind these changes Which of the following models best answers this?

- A. A diagram of a process AI-generated content may be incorrect.
- B. A diagram of a process AI-generated content may be incorrect.
- C. A diagram of a process AI-generated content may be incorrect.
- D. A diagram of a process AI-generated content may be incorrect.

**Answer: B**

Explanation:

We need to find the model that best represents:

\* Current Capabilities- Industry-leading engineering, high-quality materials sourcing, and cutting-edge focused R&D.

\* Strategic Shift- Moving from product leadership to operational excellence to enter emerging markets.

\* Required Changes-

\* Adjusting R&D targets to support cost-effective production.

\* Revising materials sourcing for optimization.

\* Introducing process engineering to enable a process-oriented mindset.

\* Motivations Behind the Changes-

\* Competitor pressure.

\* Emerging market opportunities.

\* High costs limiting mass-market success.

Why D is the Best Choice:

#Includes all current and future capabilities- Shows the existing strengths of engineering, R&D, and materials sourcing while introducing process engineering as required for operational excellence. #Clearly depicts the shift in strategy- From product leadership to operational excellence and the necessary transformations. #Captures stakeholder concerns and motivations-

Including competition, cost concerns, and emerging market opportunities. #Represents dependencies and sequencing correctly- Reflecting how each capability change contributes to the transition states and ultimate business goals.

Why Not A, B, or C?

\* A: Does not properly represent the transition between product leadership and operational excellence.

\* B: Fails to clearly define the required capability changes and motivations.

\* C: Lacks key relationships between strategy shifts and operational changes.

#### NEW QUESTION # 14

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

**Answer: B**

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.

