



Vendor: The Open Group

Exam Code: OGA-032

Exam Name: ArchiMate 3 Part 2

Version: DEMO

QUESTION 1

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 balances 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.

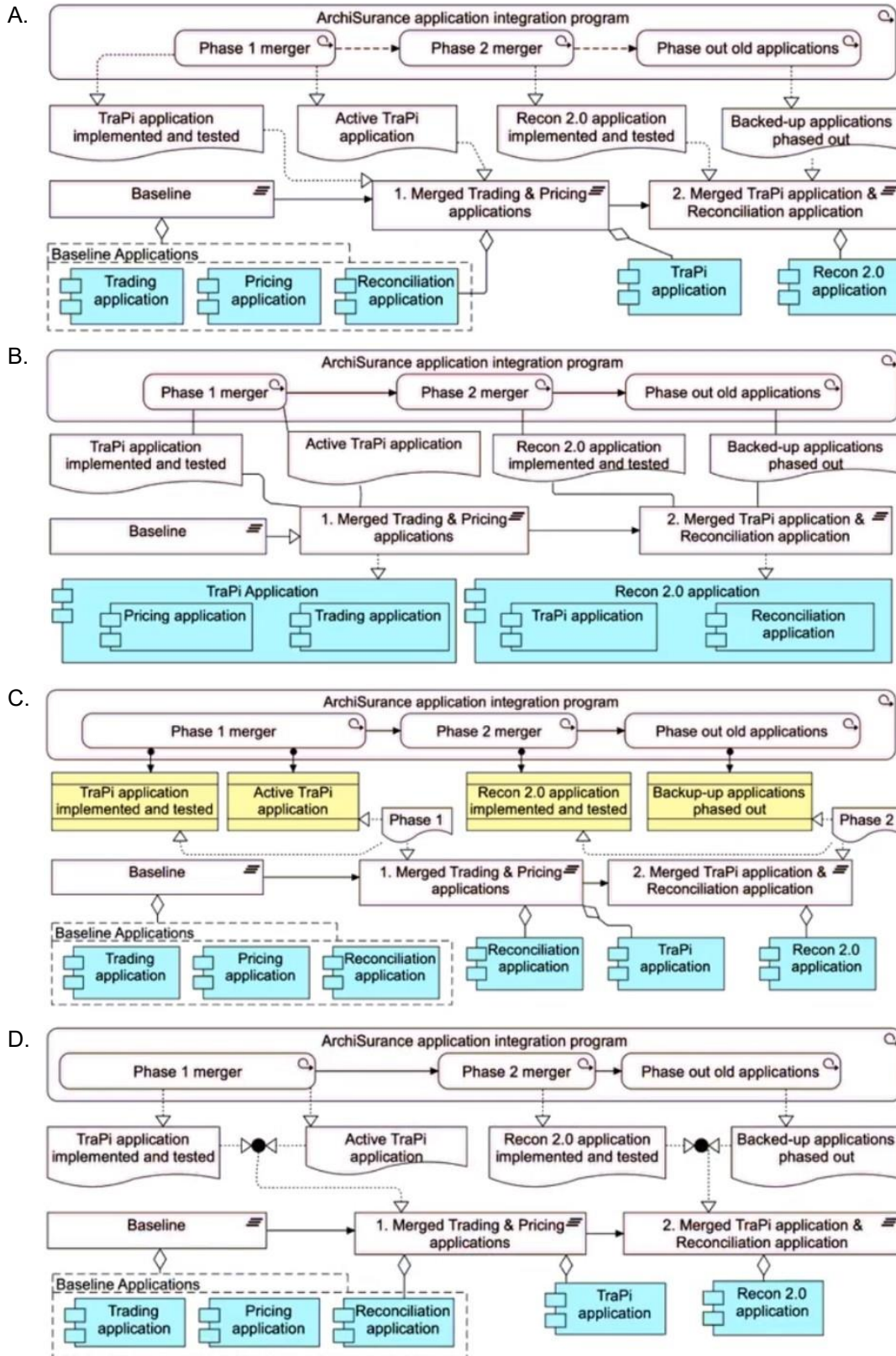
The lead application Architect has decided to merge the pricing application, the trading application and the reconciliation application into one application, which will be serving the pricing, trading and reconciliation processes respectively. The reason for this is that maintenance costs for these three 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?



Answer: A
Explanation:

This diagram is the one that correctly captures:

- Program with three sequential projects (Phase 1 merger, Phase 2 merger, Phase out old applications) at the top.
- Each phase's deliverables ("TraPri application implemented and tested" + "Active TraPri application" → first transition; "Recon 2.0 application implemented and tested" + "Back-up applications phased out" → second transition) linked into two distinct plateaus ("1. Merged Trading & Pricing applications" and "2. Merged TraPri application & Reconciliation application").
- A clear baseline on the left showing the three existing applications, and the final target apps on the right (TraPi application and Recon 2.0 application).

QUESTION 2

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 focussed R&D - along with their contributions to the new production philosophy.

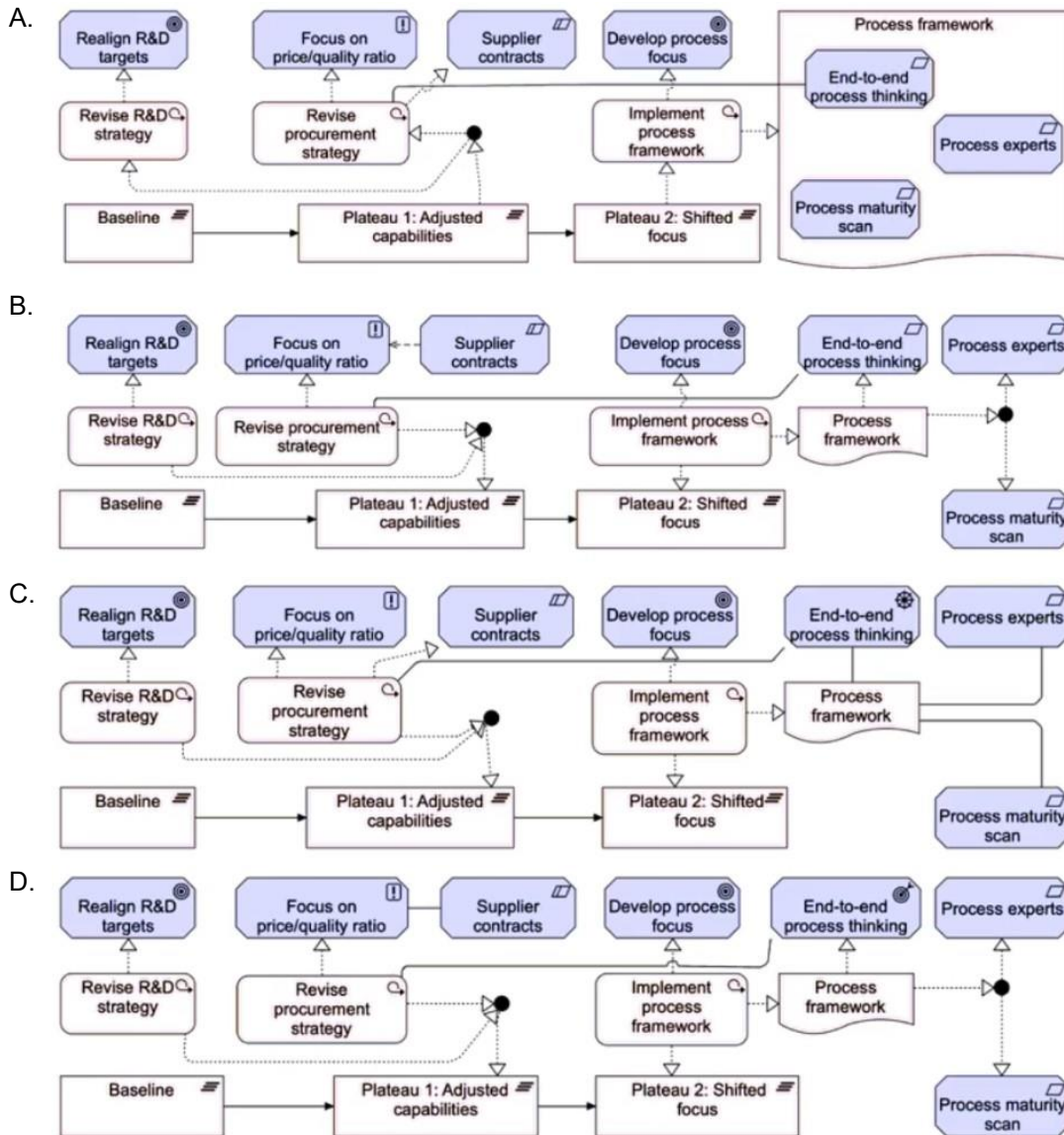
Moving forward, it has been determined that two out of the three current capabilities require revision. Materials sourcing needs to be adjusted to meet optimization demands, and R&D targets must align with future goals to enable affordable production. Additionally, process engineering is introduced as 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 key work 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.

Refer to the Scenario

You have been asked to model parts of the overall scenario, including migration planning, the motivations driving the migration, and the work packages necessary to achieve the desired deliverables.

Which of the following answers best describes the scenario?



Answer: A

Explanation:

This diagram is the only one that cleanly captures all of the required pieces:

- Migration Program at the top, showing the three sequential projects (Phase 1 merger → Phase 2 merger → Phase-out old applications).
- Work packages (“TraPri application implemented and tested,” “Active TraPri application” for Phase 1; “Recon 2.0 application implemented and tested,” “Back-up applications phased out” for Phase 2) tied into each project.
- Two distinct transition plateaus (“1. Merged Trading & Pricing applications” and “2. Merged TraPi application & Reconciliation application”).
- A clear baseline on the left (Trading, Pricing, Reconciliation apps) and the final target applications on the right (TraPi and Recon 2.0).

QUESTION 3

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.

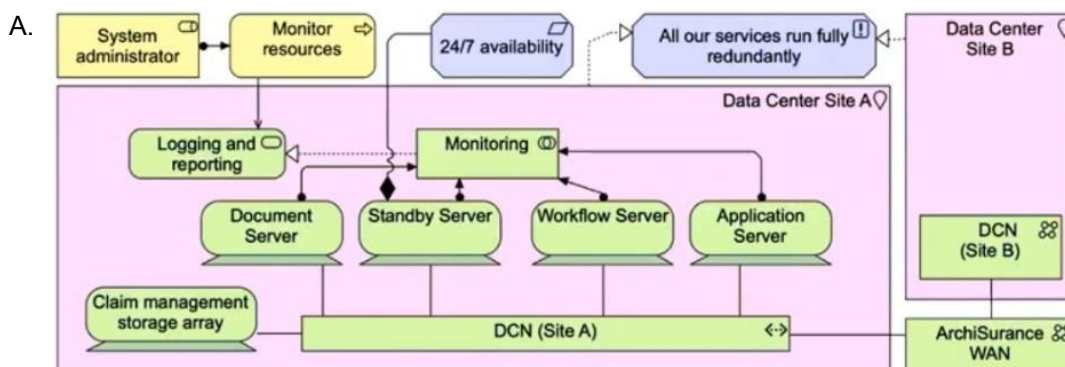
Each site has a highly available data center network (DCN) that connects to the resilient ArchiSurance wide area network (WAN). Each claim management server is connected to its respective site's DCN, forming a converged network that interconnects servers and storage arrays. A dedicated physical storage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

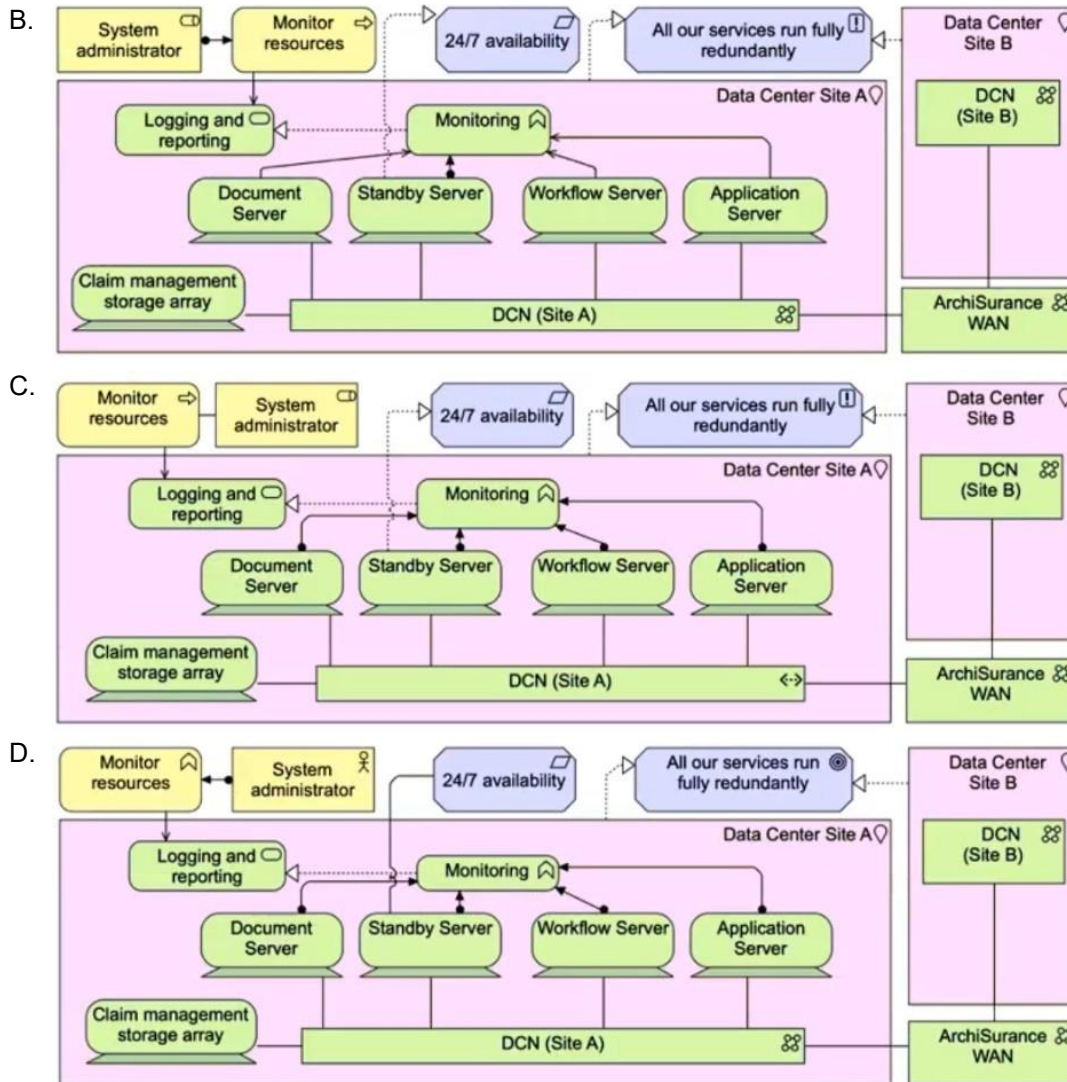
The standby server is responsible for monitoring the behavior of the other servers, providing a logging and reporting service. The active servers regularly transmit data to facilitate this monitoring functionality. In the event of a server failure, the standby server steps in to perform resource reallocation, 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?





Answer: D

Explanation:

Business Layer

- System Administrator is shown as a Business Actor (stick-figure badge).
- Monitor resources is a Business Function (chevron badge) assigned to the System Administrator.

Motivation

- "24/7 availability" is modeled as a Goal,
- "All our services run fully redundantly" as a Requirement.
- Both link into the technology-layer failover design.

Technology Layer

- Monitoring is a Technology Function (up-arrow badge) realized by the standby server.
- Logging and reporting is a Technology ("infrastructure") Service (circle badge) offered by that same node.
- The four physical machines (Document, Workflow, Application, Standby Servers) are all Technology Nodes (the 3D-style server shapes).
- The claim storage is a Technology Artifact (cylinder); the DCNs and WAN are Technology

Network elements.

Locations

- Both sites are captured as Location elements (the pin icon), but only Site B's networking is shown to avoid unnecessary duplication.

Fail-over Flow

- Arrows from the active servers into the Monitoring function capture the regular "heartbeat."
- The standby node realizes Monitoring and Logging/Reporting, and a manual triggering relationship back to the System Administrator models the human re-configuration step.

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