

TheOpenGroup.OGEA-102.v2026-06-13.q14

Exam Code:	OGEA-102
Exam Name:	TOGAF Enterprise Architecture Part 2 Exam
Certification Provider:	The Open Group
Free Question Number:	14
Version:	v2026-06-13
# of views:	105
# of Questions views:	140
https://www.freecram.net/torrent/TheOpenGroup.OGEA-102.v2026-06-13.q14.html	

NEW QUESTION: 1

Please read this scenario prior to answering the question

You are employed as an Enterprise Architect working within the Enterprise Architecture (EA) team at an electric vehicle manufacturer. The company focuses on designing, manufacturing, and advancing battery technology for sustainable transportation, while also investing in charging infrastructure, autonomous driving systems, and renewable energy integration.

The company is introducing a major change to its vehicle design over a five-year period. This will be a cross-functional effort between hardware and software teams, delivering significant new features in the vehicles they manufacture. It is planned to be developed in phases. An architecture to support strategy has been completed with a roadmap for a set of projects.

The EA team has taken over the architecture for the hardware and software automotive platform used by current vehicles, some of which will be used again in the new vehicle design. The EA team has started to pick which parts of the architecture to use again.

The presentation and access to different variations of data that the company plans to offer through its vehicles creates a design challenge. The application portfolio and supporting infrastructure must connect with multiple cloud services and data repositories in different countries to be able to handle the data at a large scale.

Enough of the Business Architecture has been defined, so that work can commence on the Information Systems and Technology Architectures. Those architectures need to be defined to support the primary business services that the company plans to provide. These services will handle and use the data created by vehicles, preparing the way for self-driving vehicles in the future.

The company uses the TOGAF standard as the basis for its Enterprise Architecture framework. The EA team reports to the Chief Technical Officer (CTO), who is the sponsor of the EA program. The CTO requires that the EA team follow the purpose-based EA Capability model as described in the TOGAF Series Guide: A Practitioners' Approach to Developing Enterprise Architecture Following the TOGAF® ADM.

Refer to the scenario

How would you plan, organize, and manage the architecture development at this stage?

Based on the TOGAF standard which of the following is the best answer?

A. The superior architecture should be used to guide the approach. Review the identified projects, dependencies, and potential overlaps, then decide the order for starting the projects. Develop high-level architecture descriptions. For each project determine how much work is needed, identify reference architectures, and candidate building blocks. Identify the resource needs, considering cost and value. Document the different options, risks, and ways to control them to enable feasibility analysis and trade-off with the stakeholders.

B. Start an iteration of ADM Phase A, perform a Stakeholder Analysis, identifying the key stakeholders and revising the Architecture Vision. Update the Stakeholder map created for the strategic architecture, so it reflects the stakeholders who are now the most important for the projects that are to be developed. Hold a formal review with the CTO, who should decide which projects to include in the Architecture Roadmap and update the Implementation and Migration Plan to reflect the decisions.

C. Follow a standard pattern for cloud solutions that manage complex data, and which fits with the architecture to support strategy. Develop high-level Target Data, Application and Technology Architectures. Review the Architecture Vision to determine the level of detail, time, and scope of the ADM cycle phases required for architecture development for the project. Identify and estimate the cost of the main work packages. Create an Architecture Roadmap and request the Architecture Board to approve the roadmap. Start the project.

D. Architecture descriptions for the Application, Data, and Technology Architectures should be developed at a suitable level to address the problems, and to identify the different options. For each project this includes identification of candidate architecture and solution building blocks. Solution providers should be identified, a readiness assessment performed, and an assessment of the viability and fitness of the solution options. The results should be added to the draft Implementation and Migration plan.

Answer: ([SHOW ANSWER](#))

The scenario states that:

A strategic architecture and roadmap already exist.

Business Architecture is complete, so the work now shifts to Information Systems and Technology Architectures (ADM Phases B-D).

The CTO requires use of the purpose-based EA Capability model (from the TOGAF Series Guide: A Practitioner's Approach to Developing Enterprise Architecture Following the TOGAF ADM).

The EA team has to plan, organize, and manage the next stage of architecture development, including re-use of existing hardware/software platform components, candidate solutions, feasibility, risks, and prioritization.

Under the purpose-based EA approach, when moving from strategy into defining the next layers of architecture, TOGAF emphasizes:

Using the superior (already-approved) architecture to guide the next ADM cycles

- This corresponds to the strategic architecture that is already completed.

Analyzing project dependencies, overlaps, and sequencing

Defining high-level architecture descriptions for the next iteration

Identifying reference architectures and candidate building blocks (especially when reusing existing platform components)

Assessing feasibility, value, cost, and risk for each project

Preparing for stakeholder trade-offs before formalizing the roadmap
These tasks map directly to Option A.

Why Option A is correct

Option A includes exactly what the purpose-based EA approach prescribes at this stage:

"The superior architecture should be used to guide the approach."

✓ Correct - strategic architecture guides the work.

"Review the identified projects, dependencies, and potential overlaps, then decide the order..."

✓ Correct - sequencing and dependency assessment are core early tasks in Phases B-D planning.

"Develop high-level architecture descriptions."

✓ Correct - Business Architecture is done; now high-level IS/Tech Architecture descriptions are needed.

"Identify reference architectures and candidate building blocks."

✓ Correct - aligns with TOGAF building-block approach, and specifically fits the scenario where existing platform components will be reused.

"Identify resource needs, considering cost and value."

✓ Correct - mandatory for feasibility and planning.

"Document options, risks, and ways to control them to enable feasibility analysis and trade-off with stakeholders."

✓ Correct - this matches ADM guidelines for preparing options and addressing complexity before deeper development.

This is precisely how TOGAF expects the architecture team to plan, organize, and manage an ADM cycle after strategy is set.

NEW QUESTION: 2

Please read this scenario prior to answering the question

You are the Lead Enterprise Architect at a major agribusiness company. The company's main annual harvest is lentils, a highly valued food grown worldwide. The lentil parasite, broomrape, has been an increasing concern for many years and is now becoming resistant to chemical controls. In addition, changes in climate favor the propagation and growth of the parasite. As a result, the parasite cannot realistically be exterminated, and it has become pandemic, with lentil yields falling globally.

The CEO appreciates the seriousness of the situation and has set out a change in direction that is effectively a new business for the company. There are opportunities for new products, and new markets. The company will use the fields for another harvest and will cease to process third-party lentils. Thus, the target market will change, and the end-products will be different and more

varied. This is a major decision and the CEO has stated a desire to repurpose rather than replace so as to manage the risks and limit the costs.

The company has a mature Enterprise Architecture practice based in its headquarters and uses the TOGAF standard as the method and guiding framework. The practice has an established Architecture Capability, and uses iteration for architecture development. The CIO is the sponsor of the activity.

The CIO has assigned the Enterprise Architecture team to this activity. At this stage there is no shared vision, or requirements.

Refer to the scenario

You have been asked to propose the best approach for architecture development to realize the CEO's change in direction for the company.

Based on the TOGAF standard which of the following is the best answer?

- A.** You propose that the team focus on architecture definition, with emphasis on defining the change parameters to support this new business strategy that the CEO has identified. Once understood, the team will be in the best position to identify the requirements, drivers, issues, and constraints for the change. You would ensure that the architecture development addresses non-functional requirements to assure that the target architecture is robust and secure.
- B.** You propose that this engagement define the baseline Technology Architecture first in order to assess the current infrastructure capacity and capability for the company. Then the focus should be on transition planning and incremental architecture deployment.
- C.** You propose that the priority is to understand and bring structure to the definition of the change. The team should focus iteration cycles on a baseline first approach to architecture development, and then transition planning. This will identify what needs to change in order to transition from the baseline to the target, and can be used to work out in detail what the shared vision is for the change.
- D.** You propose that the team focus its iteration cycles on architecture development by going through the architecture definition phases (B-D) with a baseline first approach.

This will support the change in direction as stated by the CEO. It will ensure that the change can be defined in a structured manner and address the requirements needed to realize the change.

Answer: (SHOW ANSWER)

Based on the TOGAF standard, this answer is the best approach for architecture development to realize the CEO's change in direction for the company. The reason is as follows:

The scenario describes a major business transformation that requires a clear understanding of the current and future states of the enterprise, as well as the gaps and opportunities for change. Therefore, the priority is to understand and bring structure to the definition of the change, rather than focusing on the implementation details or the technology aspects.

The team should use the TOGAF ADM as the method and guiding framework for architecture development, and adapt it to suit the specific needs and context of the enterprise. The team

should also leverage the existing Architecture Capability and the Architecture Repository to reuse and integrate relevant architecture assets and resources.

The team should focus iteration cycles on a baseline first approach to architecture development, which means starting with the definition of the Baseline Architecture in each domain (Business, Data, Application, and Technology), and then defining the Target Architecture in each domain. This will help to identify the current and desired states of the enterprise, and to perform a gap analysis to determine what needs to change in order to achieve the business goals and objectives.

The team should then focus on transition planning, which involves identifying and prioritizing the work packages, projects, and activities that will deliver the change. The team should also create an Architecture Roadmap and an Implementation and Migration Plan that will guide the execution and governance of the change.

The team should use the Architecture Vision phase and the Requirements Management phase to work out in detail what the shared vision is for the change, and to capture and validate the stakeholder requirements and expectations. The team should also use the Architecture Governance framework to ensure the quality, consistency, and compliance of the architecture work.

NEW QUESTION: 3

Scenario

You are working as an Enterprise Architect within an Enterprise Architecture (EA) team at a global company that sells consumer products. The company produces many products that buyers use and enjoy.

The company has announced a major change to its products that will occur over a four-year period. This change includes the introduction of digital products and services. An architecture to support this strategy has been finished, along with a roadmap for a set of projects to implement this significant change. This will be a cross-functional effort between the product design and software teams. It is planned to be developed in phases.

The company faces a challenge in presenting and providing access to different services through its products and digital platforms while ensuring compliance with data privacy laws. In some countries and regions, the data residency requirements mean that the company has to store certain data within the region where it is collected. As a result, the company's application portfolio and infrastructure must connect with various cloud services and data repositories in different countries.

The EA team has inherited the architecture used by the current products, some of which can be carried over to the new products. The EA team has started to define which parts of the architecture to carry forward. Enough of the Business Architecture has been defined so that work can commence on the Information Systems and Technology Architectures. Those architectures need to be defined to support the key digital services that the company plans to provide.

The company uses the TOGAF Standard as the foundation for its Enterprise Architecture framework, and architecture development follows the purpose-based EA Capability model

outlined in the TOGAF Series Guide: A Practitioner's Approach to Developing Enterprise Architecture Following the TOGAF ADM. The EA team reports to the Chief Information Officer (CIO), who oversees the program.

You have been asked how to decide and organize the work to deliver the requested architectures. Based on the TOGAF standard, which of the following is the best answer?

A. You refer to the superior architecture for guidance. You review the projects identified, their dependencies, and synergies, then decide the sequence for starting the projects. You develop high-level architecture descriptions. For each project, you determine how much work is needed, identify reference architectures, and candidate building blocks. You identify the resource needs taking into account cost and value. You document the different options, risks, and ways to control them to enable feasibility analysis and trade-off with the stakeholders.

B. You look outside the company to study how other companies organize their data models and application portfolios. You create just enough architecture description for the Application, Data, and Technology Architectures to identify the different options. For each project, this includes identification of candidate architecture and solution building blocks. You then identify solution providers, perform a readiness assessment, and assess the viability and fitness of the solution options. You then write the draft Implementation and Migration plan.

C. You research leading data companies, using your findings to help in developing high-level Target Data, Application, and Technology Architectures. You review the Architecture Vision to determine the level of detail, time, and scope of the ADM cycle phases required for each project. You identify and estimate the cost of the main resources. You then prepare an Architecture Roadmap and request the Architecture Board to review the roadmap. You then start the project.

D. You commence an iteration of ADM Phase A, identifying the stakeholders and revising the Architecture Vision. You perform a Stakeholder Analysis and update the Stakeholder Map. You conduct workshops and interviews to reflect the stakeholders who are now the key drivers for the digital products and services. You coordinate with the CIO to ensure alignment with the overall roadmap and update the Implementation and Migration Plan accordingly.

Answer: ([SHOW ANSWER](#))

Comprehensive and Detailed Step-by-Step Explanation

Context of the Scenario

The company is in the process of delivering requested architectures to support the introduction of digital products and services. The Business Architecture is sufficiently defined, and the focus is on developing the Information Systems and Technology Architectures.

TOGAF emphasizes breaking down large, complex transformation programs into manageable projects, focusing on dependencies, risks, trade-offs, and sequencing of efforts. Based on the scenario, the company must deal with:

Data privacy and residency compliance across different regions.

Re-use of existing architecture for efficiency.

Alignment of digital services with a global roadmap.

The activity described aligns with ADM Phases B (Business Architecture), C (Information Systems Architecture), and D (Technology Architecture), with a focus on delivering architectures for implementation.

Option Analysis

Option A:

Strengths:

Refers to developing high-level architecture descriptions and identifying reference architectures and candidate building blocks, which align with ADM Phases B, C, and D.

Addresses feasibility analysis, trade-offs, and stakeholder engagement, which are part of architecture development and decision-making in TOGAF.

Ensures that the architecture descriptions are resource-conscious, including cost and value analysis, dependencies, risks, and synergies between projects.

Conclusion: Correct, as it provides a complete approach to organizing the work to deliver architectures while adhering to TOGAF principles.

Option B:

Strengths:

Suggests creating architecture descriptions for the Application, Data, and Technology Architectures, which are necessary for delivering requested architectures.

Addresses readiness assessments and the fitness of solutions.

Weaknesses:

Emphasizes looking outside the company and studying other companies' models, which is not necessarily aligned with TOGAF unless justified by specific gaps.

Skips essential TOGAF steps like feasibility analysis and detailed stakeholder engagement.

Conclusion: Incorrect, as it places undue emphasis on external research instead of leveraging TOGAF's structured ADM.

Option C:

Strengths:

Suggests reviewing the Architecture Vision and determining scope, which aligns with TOGAF principles.

Proposes preparing an Architecture Roadmap and involving the Architecture Board for review.

Weaknesses:

Does not cover important elements such as candidate building blocks, feasibility analysis, or stakeholder engagement.

Suggests starting the project prematurely without proper sequencing or risk trade-offs.

Conclusion: Incorrect, as it skips key steps and lacks a structured approach to dependencies and resource management.

Option D:

Strengths:

Suggests revising the Architecture Vision and conducting a Stakeholder Analysis, which aligns with Phase A of the ADM.

Weaknesses:

Returning to Phase A is not required here, as the Architecture Vision has already been defined. Revising the vision at this stage indicates a step backward.

Lacks focus on feasibility analysis, dependencies, and sequencing, which are the immediate needs in this phase.

Conclusion: Incorrect, as it unnecessarily revisits earlier ADM phases instead of progressing.

TOGAF Reference

ADM Phases B, C, D: Emphasizes developing detailed architectures, identifying candidate building blocks, and addressing dependencies, risks, and resource needs (TOGAF 9.2, Chapters 8-10).

Architecture Roadmap and Feasibility Analysis: Guides sequencing and trade-offs for implementation (TOGAF 9.2, Section 12.4).

Stakeholder Engagement: Critical for ensuring alignment and feasibility (TOGAF 9.2, Section 24.2).

Decision-Making and Trade-offs: TOGAF emphasizes documenting risks and trade-offs as part of feasibility analysis (TOGAF 9.2, Section 6.4.1).

NEW QUESTION: 4

Please read this scenario prior to answering the question

You are working as an Enterprise Architect within a healthcare and life science company. The company is a leading player in its industry, dedicated to transforming healthcare with new ideas and advancements. The company has multiple divisions that cover different aspects of the business.

The company's Enterprise Architecture (EA) department has been operating for several years and has mature, well-developed architecture governance and development processes following the TOGAF Standard. In addition to the EA program, the company has a number of management frameworks in use.

The Architecture Board includes representatives from each division of the company.

Many of the company's rivals have begun utilizing Artificial Intelligence (AI) in their operations, and the indications are that this will be transformative for healthcare delivery. This is something the EA department has been interested in for a while, and they had recently submitted an architecture Change Request which was approved. As a result, the CIO has approved a Request for Architecture Work to investigate the implementation of AI in the company.

Areas for evaluation include:

How can staff use AI daily in their current role?

How AI can enhance access to care for patients, and how to make that experience seamless?

How AI can offer new workplace platforms and tools to increase efficiency?

Some of the top managers are worried about a change in the way of working, and if it will achieve the goals.

Many are not confident that the company's risk management processes are adequate for a company-wide integration of generative AI. There are also questions from staff about whether enough specific guidelines and policies have been put in place for responsible use of AI.

The Chief Information Officer (CIO) is the sponsor of the Enterprise Architecture program. The CIO has actively encouraged architecting with agility within the EA department as her preferred approach for projects.

The CIO wants to know how to address these concerns and reduce risks.

Refer to the scenario

You have been tasked with starting the architecture development. How do you begin?

Based on the TOGAF standard which of the following is the best answer?

A. You recommend that an analysis of the stakeholders is undertaken. This will allow the architects to define groups of partners (the stakeholders) who have common concerns and include development of a Stakeholder Map. The concerns and relevant views should then be defined for each group and recorded in the Architecture Vision document. To mitigate risk, you include a requirement that there be progressive development of the target architecture to ensure there is regular feedback.

B. You recommend that a Communications Plan be created to address the key stakeholders, that is the most powerful and influential partners. This plan should include a report that summarizes the key features of the architecture with respect to each location and reflects the stakeholders' requirements.

You will check with each key stakeholder that their concerns are being addressed. Risk mitigation should be explicitly addressed as a component of the architecture being developed.

C. You recommend that models be created for the Draft Business, Data, Application, and Technology Architectures. These can be used to ensure that the system will be compliant with the local regulations for each division. Together with the problem description, and requirements, this ensures that all the necessary data and detail is addressed. A formal review should be held with the stakeholders to verify that their concerns have been properly addressed by the models.

D. You recommend creation of a set of business models that can be applied uniformly across all AI- related architecture projects. These should be developed in the portable format to ensure maximum portability across the many tools used in the firm. Each architecture should then be defined based on this fixed set of models. All concerned parties can then examine the models to ensure that their needs have been addressed.

Answer: ([SHOW ANSWER](#))

Key aspects of the scenario:

Objective:

Integrating Artificial Intelligence (AI) into healthcare delivery, with a focus on improving patient care, enhancing workplace efficiency, and enabling seamless experiences.

Challenges:

Stakeholder concerns about risk management, adaptability to change, and ensuring alignment with regulations and policies.

Addressing the concerns of staff and top management about AI integration and achieving the desired goals.

CIO's Perspective:

Encouraging an agile approach to architecture development.

Addressing risks and ensuring stakeholder concerns are managed.

Areas for Evaluation:

AI usage by staff and impact on workflows.

Patient experience enhancement via AI.

New workplace platforms and tools powered by AI.

Option Analysis:

Option 1: Analysis of stakeholders and development of a Stakeholder Map Pros:

Stakeholder analysis is critical for identifying concerns, viewpoints, and requirements.

TOGAF emphasizes stakeholder engagement early in the process to mitigate risks and align expectations.

Developing a Stakeholder Map ensures clear alignment with their interests and creates a foundation for regular feedback loops.

Cons:

Does not explicitly address the creation of architecture models or policies upfront.

Option 2: Creation of a Communications Plan

Pros:

A communications plan fosters effective stakeholder engagement by addressing their concerns and ensuring transparent reporting.

Risk mitigation as part of communication aligns with TOGAF's stakeholder management practices.

Cons:

This focuses more on communication mechanics rather than advancing architectural development directly.

Option 3: Models for Draft Business, Data, Application, and Technology Architectures Pros:

Aligns with the Architecture Development Method (ADM), ensuring compliance with requirements and regulations.

Helps formalize stakeholder feedback by verifying their concerns against tangible models.

Cons:

Developing detailed models early on may delay immediate resolution of stakeholder concerns and risk mitigation.

Option 4: Set of reusable business models for AI-related projects

Pros:

Standardized models ensure consistency and portability across the organization's AI-related efforts.

Cons:

Too narrow in focus for the initial architecture development phase; does not address risk management or stakeholder concerns adequately.

Recommended answer:

Option 1: You recommend that an analysis of the stakeholders is undertaken.

Reasoning:

The scenario highlights stakeholder concerns about risks, adaptability, and compliance.

Addressing these concerns requires stakeholder analysis as the first step.

A Stakeholder Map aligns with TOGAF's emphasis on stakeholder engagement, providing a structured way to manage their concerns and expectations.

Identifying concerns early and integrating feedback into the Architecture Vision document ensures alignment with goals and smooth progress.

Option 1 sets the foundation for collaboration and risk management, making it the best fit for the current phase.

NEW QUESTION: 5

Please read this scenario prior to answering the question

You are employed as an Enterprise Architect within a clinical research and health technologies company. The company is dedicated to transforming healthcare with new ideas and advancements. The company has multiple divisions that cover different aspects of the business. The company's Enterprise Architecture (EA) department has mature, well-developed architecture governance and development processes following the TOGAF standard.

In addition to the EA program, the company has a number of management frameworks in use. The Architecture Board includes representatives from each division of the company. The Chief Information Officer (CIO) is the sponsor of the Enterprise Architecture program. The CIO has actively encouraged architecting with agility within the EA department as the preferred approach for projects.

Many of the company's rivals have begun using Artificial Intelligence (AI) in their operations, and the indications are that this will be transformative for healthcare delivery. This is something the EA department has been interested in for a while, and they had recently submitted an architecture Change Request which was approved. As a result, the CIO has approved a Request for Architecture Work to investigate the implementation of AI in the company.

Areas for evaluation include:

How can staff use AI daily in their current roles?

How can AI enhance access to care for patients, and how to make that experience seamless?

How can AI offer new workplace platforms and tools to increase efficiency?

Some of the top managers are worried about a change in the way of working, and if it will achieve the goals. Many are not confident that the company's risk management processes are adequate for a company-wide integration of generative AI. There are also questions from staff about whether enough specific guidelines and policies have been put in place for responsible use of AI.

Refer to the scenario

You have been assigned to the architecture development and asked how to address the concerns and manage risk for the project. How do you begin?

Based on the TOGAF standard which of the following is the best answer?

A. You recommend that an analysis of the stakeholders is carried out. This will allow the architects to define groups of stakeholders who have common concerns and include development of a Stakeholder Map. The concerns and relevant views should then be defined for each group

and recorded in the Architecture Vision document. To mitigate risk, you include a requirement that there be progressive development of the target architecture to ensure there is regular feedback.

B. You recommend that all the stakeholders be identified, and a Communications Plan created to address the most powerful and influential stakeholders. This plan should include a report that summarizes the key features of the architecture with respect to each division and reflects the stakeholders' requirements. You will check with each key stakeholder that their concerns are being addressed. Risk mitigation should be explicitly addressed as a component of the architecture being developed.

C. You recommend creation of a simple solution concept diagram to show how the stakeholders will be impacted, and the benefits to the firm. You would also create a benefits diagram showing the various opportunities from adoption of AI-based solutions. A meeting should be held with the main stakeholders to review the diagrams. They can then decide the priorities and sequencing decisions for the architecture development. Risk will be evaluated when defining the Architecture Roadmap.

D. You recommend that models be created for the Draft Business, Data, Application, and Technology Architectures. These can be used to minimize risk, and make sure that the system meets the local regulations for each division. Together with the problem description, and requirements, these should be included in the Architecture Vision document. A formal review should be held with the stakeholders to verify that their concerns are included in the Architecture Vision.

Answer: (SHOW ANSWER)

In this scenario you are right at the start of an ADM cycle: a Request for Architecture Work has been approved to investigate AI, and there are strong stakeholder concerns and risk questions. According to the TOGAF standard, the correct place to start is Phase A: Architecture Vision, with a strong focus on stakeholder management and capturing their concerns and required views.

Option A is the only answer that correctly reflects this:

Stakeholder analysis & Stakeholder Map (Phase A core task)

TOGAF explicitly states that in Phase A you must:

Identify stakeholders

Analyze and group them by common concerns

Use a Stakeholder Map to understand their influence, interest, and required engagement

Determine which views/viewpoints are needed to address their concerns in the architecture description coe.qualiware.com+1 Option A says:

"analysis of the stakeholders ... define groups of stakeholders who have common concerns and include development of a Stakeholder Map. The concerns and relevant views should then be defined for each group and recorded in the Architecture Vision document." This is exactly how TOGAF describes stakeholder management and views in Phase A:

Stakeholder Map to classify and prioritize stakeholders

Concerns and required views captured and traced

These elements feeding into the Architecture Vision deliverable Visual Paradigm TOGAF+1

Concerns, views, and Architecture Vision TOGAF emphasizes that architecture views are

constructed to address specific stakeholder concerns; you do not just build generic models.

opengroup.org+1 Option A explicitly links concerns → views → Architecture Vision, which aligns with TOGAF guidance for early phases.

Capturing this in the Architecture Vision provides a high-level, shared understanding of what the AI initiative is trying to achieve and how stakeholder issues (e.g., responsible AI, risk processes, change in way of working) will be addressed.

Risk management and "architecting with agility"

In the scenario, the CIO has encouraged architecting with agility. TOGAF is compatible with incremental and iterative development of the target architecture, especially when there is high uncertainty and risk. conexiam.com Option A includes:

"a requirement that there be progressive development of the target architecture to ensure there is regular feedback." This "progressive development" and frequent feedback loop is exactly how you mitigate risk in an AI-heavy, change-sensitive initiative:

Frequent stakeholder feedback

Early validation of assumptions

Ability to adjust scope, constraints, and principles as risk and understanding evolve This directly addresses management's worry about the change in the way of working and whether risk management and responsible AI policies are adequate: these become explicit stakeholder concerns and requirements that are iteratively refined.

Why the other options are weaker / not TOGAF-aligned as a starting point Option B Focuses mainly on a Communications Plan and powerful stakeholders.

While TOGAF does expect a stakeholder communications plan, it is derived from a proper stakeholder analysis and Stakeholder Map, not a substitute for it.

It also treats risk as a "component of the architecture" rather than something to be addressed early through stakeholder concerns, principles, and iteration.

Option C

Jumps straight to a solution concept diagram and benefits diagram and defers risk evaluation to when the Architecture Roadmap is defined (Phase E).

In TOGAF, risk and stakeholder concerns must be addressed already in Phase A and refined throughout, not postponed to roadmap development.

Option D

Proposes creating draft Business, Data, Application, and Technology models and putting them into the Architecture Vision.

This is too detailed for the starting point: Phase A is about high-level vision, not full draft core architecture models (those belong in Phases B, C, D).

It also doesn't emphasize Stakeholder Mapping and grouping by concerns, which is central to resolving the worries about way of working, risk, and responsible AI.

In summary, Option A is the best and TOGAF-consistent way to begin:

Start in Phase A: Architecture Vision

Perform stakeholder analysis and create a Stakeholder Map

Define stakeholder concerns and relevant views

Record them in the Architecture Vision

Add an explicit requirement for progressive (iterative) development of the target architecture for continuous feedback and risk mitigation

NEW QUESTION: 6

Please read this scenario prior to answering the question

You are serving as the Lead Architect for an Enterprise Architecture team within a leading multinational biotechnology company. The company works in three major industries, including healthcare, crop production, and agriculture. Your team works within the healthcare division. The healthcare division is developing a new vaccine, and has to demonstrate its effectiveness and safety in a set of clinical trials that satisfy the regulatory requirements of the relevant health authorities. The clinical trials are undertaken by its research laboratories at multiple facilities worldwide. In addition to internal research and development activities, the healthcare division is also involved in publicly funded collaborative research projects with industrial and academic partners.

The Enterprise Architecture team has been engaged in an architecture project to develop a secure system that will allow the healthcare researchers to share information more easily about their clinical trials, and work more collaboratively across the organization and also with its partners. This system will also connect with external partners.

The Enterprise Architecture team uses the TOGAF ADM with extensions required to support healthcare manufacturing practices and laboratory practices. Due to the highly sensitive nature of the information that is managed, special care has been taken to ensure that each architecture domain considers the security and privacy issues that are relevant.

The Vice President for Worldwide Clinical Research is the sponsor of the Enterprise Architecture activity. She has stated that disruptions must be minimized for the clinical trials, and that the rollout must be undertaken incrementally.

Refer to the scenario

You have been asked to recommend the approach to identify the work packages for an incremental rollout meeting the requirements.

Based on the TOGAF standard which of the following is the best answer?

- A.** You recommend that the Solution Building Blocks from a Consolidated Gaps, Solutions and Dependencies Matrix be grouped into a set of work packages. Using the matrix as a planning tool, regroup the work packages to account for dependencies. Sequence the work packages into the Capability Increments needed to achieve the Target Architecture, so that the implementation team can schedule the rollout one region at a time to minimize disruption. Document the work packages for the Enterprise Architecture using a Transition Architecture State Evolution Table.
- B.** You recommend that a Consolidated Gaps, Solutions and Dependencies Matrix is used as a planning tool for creating work packages. For each gap classify whether the solution is either a new development, purchased solution, or based on an existing product. Group the similar solutions together to define the work packages. Regroup the work packages into a set of

Capability Increments to transition to the Target Architecture considering the schedule for clinical trials, and document in an Architecture Definition Increments Table.

C. You recommend that an Implementation Factor Catalog is drawn up to indicate actions and constraints. A Consolidated Gaps, Solutions and Dependencies Matrix should also be created. For each gap, identify a proposed solution and classify it as new development, purchased solution, or based on an existing product. Group similar activities together to form work packages. Identify dependencies between work packages factoring in the clinical trial schedules. Regroup the work packages into a set of Capability Increments scheduled into a series of Transition Architectures.

D. You recommend that the set of required Solution Building Blocks be determined by identifying those which need to be developed and which need to be procured. Eliminate any duplicates. Group the remaining Solution Building Blocks together to create the work packages using a CRUD (create, read, update, delete) matrix. Rank the work packages and select the most cost-effective options for inclusion in a series of Transition Architectures. Schedule the roll out of the work packages to be sequential across the geographic regions.

Answer: ([SHOW ANSWER](#))

A Consolidated Gaps, Solutions and Dependencies Matrix is a technique that can be used to create work packages for an incremental rollout of the architecture. A work package is a set of actions or tasks that are required to implement a specific part of the architecture. A work package can be associated with one or more Architecture Building Blocks (ABBs) or Solution Building Blocks (SBBs), which are reusable components of business, IT, or architectural capability. A work package can also be associated with one or more Capability Increments, which are defined, discrete portions of the overall capability that deliver business value. A Capability Increment can be realized by one or more Transition Architectures, which are intermediate states of the architecture that enable the transition from the Baseline Architecture to the Target Architecture.¹²³ The steps for creating work packages using this technique are:

For each gap between the Baseline Architecture and the Target Architecture, identify a proposed solution and classify it as new development, purchased solution, or based on an existing product. A gap is a difference or deficiency in the current state of the architecture that needs to be addressed by the future state of the architecture. A solution is a way of resolving a gap by implementing one or more ABBs or SBBs.

Group similar solutions together to define the work packages. Similar solutions are those that have common characteristics, such as functionality, technology, vendor, or location.

Identify dependencies between work packages, such as logical, temporal, or resource dependencies. Dependencies indicate the order or priority of the work packages, and the constraints or risks that may affect their implementation.

Regroup the work packages into a set of Capability Increments to transition to the Target Architecture. Capability Increments should be defined based on the business value, effort, and risk associated with each work package, and the schedule and objectives of the clinical trials. Capability Increments should also be aligned with the Architecture Vision and the Architecture Principles.

Document the work packages and the Capability Increments in an Architecture Definition Increments Table, which shows the mapping between the work packages, the ABBs, the SBBs, and the Capability Increments. The table also shows the dependencies, assumptions, and issues related to each work package and Capability Increment.

Therefore, the best answer is B, because it describes the approach to identify the work packages for an incremental rollout meeting the requirements, using the Consolidated Gaps, Solutions and Dependencies Matrix as a planning tool.

NEW QUESTION: 7

Please read this scenario prior to answering the question

You have been appointed as senior architect working for an autonomous driving technology development company. The mission of the company is to build an industry leading unified technology and software platform to support connected cars and autonomous driving.

The company uses the TOGAF Standard as the basis for its Enterprise Architecture (EA) framework. Architecture development within the company follows the purpose-based EA Capability model as described in the TOGAF Series Guide: A Practitioners' Approach to Developing Enterprise Architecture Following the TOGAF® ADM.

An architecture to support strategy has been completed defining a long-range Target Architecture with a roadmap spanning five years. This has identified the need for a portfolio of projects over the next two years. The portfolio includes development of travel assistance systems using swarm data from vehicles on the road.

The current phase of architecture development is focused on the Business Architecture which needs to support the core travel assistance services that the company plans to provide. The core services will manage and process the swarm data generated by vehicles, paving the way for autonomous driving in the future.

The presentation and access to different variations of data that the company plans to offer through its platform poses an architecture challenge. The application portfolio needs to interact securely with various third-party cloud services, and V2X (Vehicle-to-Everything) service providers in many countries to be able to manage the data at scale. The security of V2X is a key concern for the stakeholders. Regulators have stated that the user's privacy be always protected, for example, so that the drivers' journey cannot be tracked or reconstructed by compiling data sent or received by the car.

Refer to the scenario

You have been asked to describe the risk and security considerations you would include in the current phase of the architecture development?

Based on the TOGAF standard which of the following is the best answer?

A. You will focus on the relationship with the third parties required for the travel assistance systems and define a trust framework. This will describe the relationship with each party. Digital certificates are a key part of the framework and will be used to create trust between parties. You will monitor legal and regulatory changes across all the countries to keep the trust framework in compliance.

B. You will perform a qualitative risk assessment for the data assets exchanged with partners. This will deliver a set of priorities, high to medium to low, based on identified threats, the likelihood of occurrence, and the impact if it did occur. Using the priorities, you would then develop a Business Risk Model which will detail the risk strategy including classifications to determine what mitigation is enough.

C. You will focus on data quality as it is a key factor in risk management. You will identify the datasets that need to be safeguarded. For each dataset, you will assign ownership and responsibility for the quality of data needs. A security classification will be defined and applied to each dataset. The dataset owner will then be able to authorize processes that are trusted for a certain activity on the dataset under certain circumstances.

D. You will create a security domain model so that assets with the same level can be managed under one security policy. Since data is being shared across partners, you will establish a security federation to include them. This would include contractual arrangements, and a definition of the responsibility areas for the data exchanged, as well as security implications. You would undertake a risk assessment determining risks relevant to specific data assets.

Answer: ([SHOW ANSWER](#))

A security domain model is a technique that can be used to define the security requirements and policies for the architecture. A security domain is a grouping of assets that share a common level of security and trust. A security policy is a set of rules and procedures that govern the access and protection of the assets within a security domain. A security domain model can help to identify the security domains, the assets within each domain, the security policies for each domain, and the relationships and dependencies between the domains¹ Since the data is being shared across partners, a security federation is needed to establish a trust relationship and a common security framework among the different parties. A security federation is a collection of security domains that have agreed to interoperate under a set of shared security policies and standards. A security federation can enable secure data exchange and collaboration across organizational boundaries, while preserving the autonomy and privacy of each party. A security federation requires contractual arrangements, and a definition of the responsibility areas for the data exchanged, as well as security implications² A risk assessment is a process that identifies, analyzes, and evaluates the risks that may affect the architecture. A risk assessment can help to determine the likelihood and impact of the threats and vulnerabilities that may compromise the security and privacy of the data assets. A risk assessment can also help to prioritize and mitigate the risks, and to monitor and review the risk situation³ Therefore, the best answer is D, because it describes the risk and security considerations that would be included in the current phase of the architecture development, which is focused on the Business Architecture. The answer covers the security domain model, the security federation, and the risk assessment techniques that are relevant to the scenario.

NEW QUESTION: 8

You are working as an Enterprise Architect at a large company. The company runs many retail stores as well as an online marketplace that allows hundreds of brands to partner with the

company. The company has a mature Enterprise Architecture (EA) practice and uses the TOGAF standard for its architecture development method. The EA practice is involved in all aspects of the business, with oversight provided by an Architecture Board with representatives from different parts of the business. The EA program is sponsored by the Chief Information Officer (CIO). Many of the stores remain open all day and night. Each store uses a standard method to track sales and inventory, which involves sending accurate, timely sales data to a central AI-based inventory management system that can predict demand, adjust stock levels, and automate reordering. The central inventory management system is housed at the company's central data center.

The company has acquired a major rival. The Chief Executive Officer (CEO) believes that the merger will enable growth through combined offerings and cost savings. The decision has been made to fully integrate the two organizations, including merging retail operations and systems. Duplicated systems will be replaced with one standard retail management system. The CIO expects significant savings from these changes across the newly merged company.

The rival company has successfully implemented the use of hand-held devices within stores for both customers and staff, which has increased satisfaction due to time savings. The CIO has approved the rollout of these devices to all stores but has stated that training should be brief, as there are many part-time employees.

You have been asked to confirm the most relevant architecture principles for this transformation. Based on the TOGAF Standard, which of the following is the best answer?

- A.** Common Vocabulary and Data Definitions, Compliance with the Law, Requirements Based Change, Responsive Change Management, Data Security
- B.** Control Technical Diversity, Interoperability, Data is an Asset, Data is Shared, Business Continuity
- C.** Common Use Applications, Data is an Asset, Data is Accessible, Ease of Use, Business Continuity
- D.** Maximize Benefit to the Enterprise, Common Use Applications, Data is an Asset, Responsive Change Management, Technology Independence

Answer: (SHOW ANSWER)

In this scenario, the enterprise is undergoing significant transformation due to a merger and the adoption of new technology (hand-held devices). Several key principles from TOGAF's ADM Techniques-particularly those focused on promoting enterprise-wide standardization, adaptability, and data utilization-are pertinent here:

Maximize Benefit to the Enterprise:

This principle emphasizes that all architectural decisions should deliver maximum business value. Given that the company is integrating systems to cut costs and improve offerings, maximizing the benefit is crucial. Ensuring that the EA efforts align with enterprise-wide benefits supports the goal of optimizing costs and enhancing offerings, which aligns with the CEO's vision for the merger.

Common Use Applications:

Standardizing applications across the merged entity will be essential to achieve cost savings and to simplify operations. The goal of reducing the number of applications fits with this principle,

ensuring that reusable and widely adopted applications support business functions across the organization. Adopting this principle will also aid in harmonizing the systems from both organizations and avoiding unnecessary diversity.

Data is an Asset:

Data plays a central role in the company's operations, especially with the use of AI-driven inventory management and the integration of systems. Treating data as an asset is essential for reliable and accurate decision-making. This principle ensures that data is viewed as a critical enterprise resource and is managed with care, maintaining integrity, accuracy, and value.

Responsive Change Management:

The organization's ability to adapt quickly and effectively to changes, such as integrating new handheld devices and merging systems, is essential. This principle will facilitate the smooth transition required for integrating the new handheld devices and the merger-related system updates while minimizing disruption to store operations.

Technology Independence:

Since the enterprise will likely encounter varied technologies from the merger, it is crucial to maintain flexibility. This principle advocates for using technology solutions that are adaptable and not bound to a single vendor or specific technology. This ensures that the enterprise can integrate various technological components from both organizations and evolve with minimal constraints.

These principles align well with TOGAF's broader recommendations for guiding architectural changes, as found in Section 2.6 of the TOGAF ADM Techniques. They ensure that the EA practice is aligned with business objectives while maintaining flexibility, data integrity, and a focus on enterprise-wide benefits. These guiding principles are critical for the successful execution of the integration and adoption of new technologies while achieving cost efficiencies and improving service delivery.

For reference, TOGAF's ADM Techniques highlight the importance of architectural principles in guiding transformational initiatives, ensuring that decisions are made consistently across the enterprise. Each principle supports organizational agility, system integration, and the efficient use of technology resources, all of which are vital for the enterprise's stated objectives.

NEW QUESTION: 9

Please read this scenario prior to answering the question

You are employed as an Enterprise Architect working at a vehicle manufacturing company. The company specializes in buses and coaches. You are part of an Enterprise Architecture (EA) team that has responsibilities across multiple divisions of the company. EA provides the company with a comprehensive framework to develop and manage their manufacturing infrastructure, processes for component production, and design and testing systems.

The company has a corporate strategy that focuses on switching to electric power for its vehicles. It has invested heavily in a new standardized design, production efforts, and major components to use across all its product range. The company has multiple manufacturing plants in North America, Europe, and in Asia.

Customer demand has caused a backlog of orders because many customers want to have more environmentally friendly public transportation. There are not enough electronic components available, which is making it hard to produce products and meet customer demand. To address this issue, the company has started making the battery packs themselves and has hired new suppliers.

The EA team is working on a project to improve the process and systems to design, produce, and test the battery pack. As part of putting the new battery pack into production, changes to the assembly processes need to be made. A trial has been completed at a single location. The Chief Engineer, sponsor of the project, and the Architecture Board have approved the plan to roll out these changes to all plants.

Preliminary Architecture Contracts are being developed to detail the work needed to put in place the new processes for each location. The EA team leader has called a meeting to discuss the contracts. It is emphasized that the Architecture Contract will serve as the key connection between architecture and implementation organizations.

The company mixes internal teams with a few third-party contractors at the locations.

The Chief Engineer is worried that the implementation and deployment will not be consistent and of satisfactory quality.

The company has an established EA practice. It uses the TOGAF standard as the foundation for its work including the internal EA framework. Additionally, the company uses various management frameworks such as business planning, project management, and operations management.

Refer to the scenario

The EA team leader asks you how you would address the Chief Engineer's concern.

Based on the TOGAF standard, which of the following is the best answer?

A. The contracts must be checked to ensure they have flexibility. For changes undertaken by internal teams, a memorandum of understanding between the Architecture Board and the implementation organization is needed. If a contract is issued to a contractor, it must be a fully enforceable legal contract. If a deviation from the Architecture Contract is found, the Architecture Board must grant a dispensation to allow the implementation organization to customize the process to meet their local needs.

B. The contracts must be checked to ensure they can be used to direct and control the implementation teams. For contracts issued to third-party contractors, they must be enforceable legal contracts. For internal development teams, a memorandum of understanding with the Architecture Board is needed. The Architecture Board must review all deviations from the Architecture Contract and decide whether to grant a dispensation to allow the implementation organization to customize the process to meet their local needs.

C. The contracts must specify goals, measures, acceptance terms, and risks.

Third-party contracts must be legally enforceable. It is advisable to establish a schedule of compliance reviews at key points in the implementation process.

The Architecture Board must review all deviations from the Architecture Contract and consider whether to grant a dispensation to allow the process to be customized for local needs. Ensure that all dispensations are time-bound rather than indefinite.

D. The contracts must be used to manage the architecture governance processes across the locations. Monitoring tools must be put in place to assess the performance of each completed battery pack at each location. If a deviation from the contract is needed, the Architecture Board should allow the Architecture Contract to be modified for the location. In such cases they should issue a new Request for Architecture Work to implement a modification to the Architecture Definition.

Answer: ([SHOW ANSWER](#))

The Chief Engineer is concerned that implementation across multiple plants and mixed teams (internal + contractors) may be inconsistent and of poor quality.

The question asks: How should Architecture Contracts be used to address this concern according to the TOGAF standard?

TOGAF states that an Architecture Contract must:

Define obligations of both architecture and implementation organizations
Specify metrics, measures, acceptance criteria, and success factors
Identify risks and mitigation
Support Architecture Governance through compliance reviews
Apply to BOTH internal teams and external suppliers (external contracts must be legally enforceable)
Option C is the only one that correctly reflects these TOGAF requirements.

✓ Why Option C is correct

1. Architecture Contracts must specify goals, measures, acceptance terms, and risks
TOGAF explicitly states that Architecture Contracts should include:

Statement of Architecture Work

Performance metrics and measures

Acceptance criteria

Risks and issues

Compliance and conformance requirements

Option C includes all of these.

2. Third-party contracts must be legally enforceable

True - TOGAF states that when external suppliers are involved, Architecture Contracts often take the form of legally binding contracts.

Option C:

"Third-party contracts must be legally enforceable."

Correct.

3. Compliance reviews must be scheduled

TOGAF's Architecture Governance Framework prescribes scheduled Architecture Compliance Reviews to ensure that implementation conforms to the Architecture Contract.

Option C:

"establish a schedule of compliance reviews at key points"

Correct - this directly addresses the Chief Engineer's concern about consistency and quality.

4. Deviations must be reviewed by the Architecture Board and any dispensations should be time-bound TOGAF allows dispensations but requires:

Formal review

Approval by the Architecture Board

Time-bound accommodations rather than permanent exceptions

Option C includes exactly this guidance.

NEW QUESTION: 10

You are working as an Enterprise Architect within an Enterprise Architecture (EA) team at a multinational energy company. The company is committed to becoming a net-zero emissions energy business by 2050. To achieve this, the company is focusing on shifting to renewable energy production and adopting eco-friendly practices.

The EA team, which reports to the Chief Technical Officer (CTO), has been tasked with overseeing the transformation to make the company more effective through acquisitions. The company plans to fully integrate these acquisitions, including merging operations and systems.

To address the integration challenges, the EA team leader wants to know how to manage risks and ensure that the company succeeds with the proposed changes. Based on the TOGAF Standard, which of the following is the best answer?

A. The EA team should create a Business Scenario to fully describe the business problem that is being addressed by the transformation. Once requirements are identified, they should be evaluated in terms of risks. Any residual risks should be escalated to the Architecture Board.

B. The EA team should develop Business Architecture views that demonstrate how stakeholder concerns are addressed and assess each factor for readiness, urgency, and degree of difficulty.

C. The EA team should evaluate the company's readiness for change by identifying factors that will impact the transformation. These factors will be used to determine initial risks associated with the initiative.

D. The EA team should document the risks associated with the transformation in an Implementation Factor Catalog to inform decisions during implementation and deployment.

Answer: ([SHOW ANSWER](#))

In TOGAF, creating a Business Scenario is a foundational step in defining and understanding the business problem, especially for complex transformations involving multiple stakeholders and systems, such as in this scenario. This method aligns with Phase A (Architecture Vision) of the TOGAF Architecture Development Method (ADM). Here's why this approach is the most effective:

Understanding Business Requirements:

A Business Scenario provides a structured way to capture and analyze the business requirements, stakeholder concerns, and the contextual elements related to the problem. In this scenario, the company faces challenges in integrating newly acquired companies with existing operations, which includes complex stakeholder concerns across different functional areas.

Developing a Business Scenario allows the EA team to break down these complexities into identifiable and manageable parts.

Risk Evaluation and Management:

By using the Business Scenario approach, the EA team can not only define the requirements but also assess associated risks systematically. TOGAF emphasizes the importance of risk management through identifying potential risks, evaluating their impact, and defining strategies for handling these risks. The process includes assessing how risks can be avoided, transferred, or reduced—a necessary step in large-scale transformations to ensure that risks are proactively managed.

Residual Risks and Governance:

Any risks that cannot be fully resolved should be identified as residual risks and escalated to the Architecture Board, which is aligned with TOGAF's governance approach. The Architecture Board's role in TOGAF is to provide oversight and make critical decisions on risks that exceed the control of the EA team. This ensures that unresolved risks are managed at the appropriate level of the organization.

Alignment with TOGAF ADM Phases:

The Business Scenario approach directly aligns with the Preliminary and Architecture Vision phases of the TOGAF ADM, which focuses on establishing a baseline understanding of the business context and the strategic transformation required. The detailed understanding of requirements, stakeholder concerns, and risks identified here will guide the subsequent phases of the ADM, including Business Architecture and Information Systems Architecture.

TOGAF Reference (Section 2.6, ADM Techniques):

TOGAF provides guidelines on the creation of Business Scenarios as part of ADM Techniques, highlighting the importance of defining a business problem comprehensively to ensure successful transformation. This method includes identification of stakeholders, business requirements, and associated risks, which aligns well with the company's need for strategic and systematic integration of new business units.

By utilizing a Business Scenario, the EA team ensures that all aspects of the transformation are well understood, risks are identified early, and residual risks are managed effectively, aligning with the company's strategic objectives and the TOGAF framework's guidance on risk management and stakeholder alignment.

NEW QUESTION: 11

Please read this scenario prior to answering the question

You are working as an Enterprise Architect at a large supermarket. The company runs many retail stores, as well as an online grocery shop. Many of the stores used to remain open 24/7, but the number has decreased in recent years. Instead, they now focus on fulfilling online orders during the night.

The company has a mature Enterprise Architecture (EA) practice and uses the TOGAF standard for its architecture development method. The EA practice is involved in all aspects of the business, with oversight provided by an Architecture Board with representatives from different parts of the business. The EA program is sponsored by the Chief Information Officer (CIO). Each store uses a standard method to track sales and inventory. This involves sending accurate timely sales data to a central AI-based inventory management system that can predict demand,

adjust stock levels and automate reordering. The central inventory management system is housed at the company's central data center.

The company has bought a major rival. The Chief Executive Officer believes that a merger will enable growth through combined offerings and cost savings. The decision has been taken to fully integrate the two organizations, including merging retail operations and systems. This means that duplicated systems will be replaced with one standard retail management system. Also, the company will reduce the number of applications that are used. The CIO expects significant savings will be achieved by implementing these changes across the newly merged company. One improvement that the rival has successfully implemented is the use of hand-held devices within stores, for both customers and staff. This has increased both customer and staff employee satisfaction due to the time savings this has brought. The CIO has given the go-ahead to roll out the devices in all stores but has stated that training on how to use the hand-held devices should be brief because there are a lot of employees, many of whom are part-time.

The Request for Architecture Work to oversee the merger has been approved. The project has been scoped and you have been assigned to work on it. Your role includes managing the architecture for the retail stores.

Refer to the scenario

You have been asked to confirm the most relevant architecture principles for the transformation.

Based on the TOGAF Standard, which of the following is the best answer?

[Note: The sequence of the principles listed in each answer does not matter. You should assume the company follows the set of principles that are provided in the TOGAF Standard, ADM Techniques, Architecture Principles chapter. You may need to refer to section 2.6 located in ADM Techniques within the reference text to answer this question.]

- A.** Maximize Benefit to the Enterprise, Common Use Applications, Data is an Asset, Responsive Change Management, Technology Independence
- B.** Control Technical Diversity, Interoperability, Data is an Asset, Data is Shared, Business Continuity
- C.** Common Vocabulary and Data Definitions, Compliance with the Law, Requirements Based Change, Responsive Change Management, Data Security
- D.** Common Use Applications, Data is an Asset, Data is Accessible, Ease of Use, Business Continuity

Answer: A ([LEAVE A REPLY](#))

Key aspects of the scenario:

Business Objective:

A merger is happening to combine offerings, reduce costs, and achieve operational efficiency. The goal includes fully integrating retail operations and systems, replacing duplicated systems, and reducing the number of applications used.

Technological Improvements:

A central AI-based inventory system is in place.

Hand-held devices for stores have improved customer and staff satisfaction and increased efficiency.

Scope of Architecture Work:

Integrating the merged systems.

Managing retail architecture to optimize operations.

TOGAF Alignment:

TOGAF principles aim to ensure the architecture supports business transformation effectively while aligning with governance and best practices.

Best answer analysis:

Option 1:

Maximize Benefit to the Enterprise: Aligns with the merger goals of cost reduction and efficiency.

Common Use Applications: Matches the goal to reduce duplicated systems.

Data is an Asset: Central AI system depends on accurate and reliable data.

Responsive Change Management: Necessary to support the transition and manage organizational impacts.

Technology Independence: Encourages selecting flexible, scalable solutions post-merger.

This option comprehensively aligns with the scenario.

Option 2:

Control Technical Diversity: Important but less emphasized than cost reduction and application unification.

Interoperability: Relevant, but less critical compared to principles addressing business value.

Data is an Asset: Relevant.

Data is Shared: Implied in centralized inventory but not directly stated.

Business Continuity: Important but not the main focus here.

This option partially fits but lacks emphasis on business outcomes.

Option 3:

Common Vocabulary and Data Definitions: Indirectly helpful but not central to the transformation.

Compliance with the Law: Always critical, but no explicit legal issues are mentioned.

Requirements-Based Change: General principle but not transformation-specific.

Responsive Change Management: Relevant.

Data Security: Important but not a central concern in the scenario.

This option focuses more on governance and less on merger goals.

Option 4:

Common Use Applications: Relevant to reducing duplicate systems.

Data is an Asset: Relevant.

Data is Accessible: Fits with AI system and handheld devices but is a subset of "Data is an Asset." Ease of Use: Relevant to handheld devices but not a core transformation principle.

Business Continuity: Important but secondary to cost and efficiency.

This option focuses more on usability and accessibility rather than transformation objectives.

NEW QUESTION: 12

You are working as an Enterprise Architect within an Enterprise Architecture (EA) team at a large government agency with multiple divisions. The agency has a well-established EA practice and

follows the TOGAF standard as its method for architecture development. The government has mandated that the agency prepare for an "AI-first" world.

The agency wants to determine the impact and role of AI in its future services. The CIO has approved a Request for Architecture Work to explore the use of AI in services. Some leaders are concerned about reliance on AI, security, and employees' need to acquire new skills.

The EA team leader seeks suggestions on managing the risks associated with a new architecture for the AI-first project. Based on the TOGAF standard, which of the following is the best answer?

- A.** Conduct an analysis of stakeholders, documenting their concerns and recording them in the Architecture Vision document. Risks should be recorded in the Architecture Requirements Specification and reviewed regularly.
- B.** Identify key stakeholders and develop a Communication Plan that addresses their needs. Ensure the architecture addresses risk management and summarizes features of the architecture.
- C.** Separate stakeholders into groups and categorize them. Develop models for each group and verify that their concerns are addressed in Phase G, Implementation Governance.
- D.** Create an organization map to show the links between different agency parts. Hold a meeting to teach stakeholders to interpret the models. Manage risks as part of Security Architecture development.

Answer: (SHOW ANSWER)

In the context of the TOGAF standard, stakeholder management and addressing stakeholder concerns are critical components, especially for high-impact initiatives like adopting an AI-first approach. Here's why the selected answer aligns best with TOGAF principles and the scenario: Stakeholder Analysis and Engagement:

Conducting a stakeholder analysis is essential as it helps identify and document the concerns, issues, and cultural factors influencing each stakeholder group. This aligns with TOGAF's emphasis on understanding and managing stakeholder concerns, particularly in the Preliminary and Architecture Vision phases of the ADM (Architecture Development Method). Since the scenario highlights diverse concerns about AI, understanding each group's unique perspective will help the EA team tailor the architecture to address these effectively.

Architecture Vision Document:

By documenting these concerns in the Architecture Vision document, the EA team can provide a clear, high-level representation of how AI will be adopted, its benefits, and how it addresses specific stakeholder concerns. This is critical for communicating the intent and value of the AI-first approach in a way that aligns with the agency's strategic goals, including addressing apprehensions about job security, skill development, and cyber resilience.

Risk Management and Architecture Requirements Specification:

TOGAF highlights the importance of identifying and managing risks early in the process. By documenting the requirements related to risk in the Architecture Requirements Specification, the EA team ensures that these concerns are formally integrated into the architecture and addressed throughout the ADM phases. Regular assessments and feedback loops will provide a mechanism for continual risk monitoring and adjustment as the AI-first initiative progresses.

Alignment with TOGAF's ADM Phases:

The approach specified aligns with TOGAF's guidance on managing risk and stakeholder concerns during the early ADM phases, specifically Architecture Vision and Requirements Management. In these phases, the framework emphasizes identifying and addressing risks associated with stakeholders' concerns to build a resilient and widely accepted architecture.

Reference to TOGAF Stakeholder Management Techniques:

TOGAF's stakeholder management techniques underscore the importance of understanding and addressing stakeholder needs as a foundational step. This involves assessing the influence and interest of various stakeholders and integrating their views into architectural development, ensuring that the architecture aligns with both business goals and operational realities.

In conclusion, by conducting a thorough stakeholder analysis and documenting concerns in both the Architecture Vision and Architecture Requirements Specification, the EA team can ensure that stakeholder concerns are addressed, that the architecture supports AI adoption effectively, and that potential risks are managed proactively. This approach will foster acceptance among stakeholders and ensure that the architecture aligns with the agency's strategic goals and risk management requirements as recommended by TOGAF.

NEW QUESTION: 13

Scenario

Your role is that of an Enterprise Architect, reporting to the Chief Enterprise Architect, at a technology company.

The company uses the TOGAF standard as the method and guiding framework for its Enterprise Architecture (EA) practice. The Chief Technology Officer (CTO) is the sponsor of the activity. The EA practice uses an iterative approach for its architecture development. This has enabled the decision-makers to gain valuable insights into the different aspects of the business.

The nature of the business is such that the data and the information stored on the company systems is the company's major asset and is highly confidential. The company employees travel a lot for work and need to communicate over public infrastructure. They use message encryption, secure internet connections using Virtual Private Networks (VPNs), and other standard security measures. The company has provided computer security awareness training for all its staff. However, despite good education and system security, there is still a need to rely on third-party suppliers for infrastructure and software.

The Chief Security Officer (CSO) has noted an increase in ransomware (malicious software used in ransom demands) attacks on companies with a similar profile. The CSO recognizes that no matter how much is spent on education and support, the company could be a victim of a significant attack that could completely lock them out of their important data.

A risk assessment has been completed, and the company has looked for cyber insurance that covers ransomware. The price for this insurance is very high. The CTO recently saw a survey that said 1 out of 4 businesses that paid ransoms could not get their data back, and almost the same number were able to recover the data without paying. The CTO has decided not to get cyber insurance to cover ransom payment.

You have been asked to describe the steps you would take to strengthen the current architecture to improve data protection.

Based on the TOGAF standard, which of the following is the best answer?

- A.** You would ensure that the company has in place up-to-date processes for managing change to the current Enterprise Architecture. Based on the scope of the concerns raised, you recommend that this be managed at the infrastructure level. Changes should be made to the baseline description of the Technology Architecture. The changes should be approved by the Architecture Board and implemented by change management techniques.
- B.** You would request an Architecture Compliance Review with the scope to examine the company's ability to respond to ransomware attacks. You would identify the departments involved and have them nominate representatives. You would then tailor checklists to address the requirement for increased resilience. You would circulate to the nominated representatives for them to complete. You would then review the completed checklists, identifying and resolving issues. You would then determine and present your recommendations.
- C.** You would monitor for technology updates from your existing suppliers that could enhance the company's capabilities to detect, react, and recover from an IT security incident. You would prepare and run a disaster recovery planning exercise for a ransomware attack and analyze the performance of the current Enterprise Architecture. Using the findings, you would prepare a gap analysis of the current Enterprise Architecture. You would prepare change requests to address identified gaps. You would add the changes implemented to the Architecture Repository.
- D.** You would assess business continuity requirements and analyze the current Enterprise Architecture for gaps. You would recommend changes to address the situation and create a change request. You would engage the Architecture Board to assess and approve the change request. Once approved, you would create a new Request for Architecture Work to begin an ADM cycle to implement the changes.

Answer: ([SHOW ANSWER](#))

Comprehensive and Detailed Step-by-Step Explanation

Context of the Scenario

The scenario highlights significant risks due to ransomware attacks and the need to strengthen the company's Enterprise Architecture to improve data protection and resilience. TOGAF emphasizes the Architecture Compliance Review as a mechanism for ensuring the architecture meets its objectives and addresses specific concerns such as security, resilience, and compliance with organizational goals.

The organization has already conducted a risk assessment but requires actionable steps to:

Address ransomware attack risks.

Increase the resilience of the Technology Architecture.

Ensure proper alignment with governance and compliance frameworks.

Option Analysis

Option A:

Strengths:

Highlights the need for up-to-date processes for managing changes in the Enterprise Architecture.

Recognizes the importance of governance through the Architecture Board and change management techniques.

Weaknesses:

The approach focuses solely on the Technology Architecture baseline but does not address the need for specific steps such as compliance review, gap analysis, or tailored resilience measures for ransomware risks.

It provides a broad and generic approach rather than a targeted plan for ransomware and data protection issues.

Conclusion: Incorrect. While it adheres to governance processes, it lacks specific actions to improve resilience and address the immediate security concerns.

Option B:

Strengths:

Proposes an Architecture Compliance Review, which is a core TOGAF process used to evaluate architecture implementation against defined objectives, ensuring it is fit for purpose.

Involves identifying stakeholders (departments) and tailoring checklists specific to ransomware resilience.

Emphasizes issue identification and resolution through structured review processes.

Weaknesses:

Does not explicitly address longer-term updates to the Enterprise Architecture, but this can be inferred as a next step following compliance recommendations.

Conclusion: Correct. This is the most suitable approach based on TOGAF principles, as it uses an established process to evaluate and improve the architecture's resilience.

Option C:

Strengths:

Includes monitoring for updates from suppliers to enhance detection and recovery capabilities, which is relevant to addressing ransomware risks.

Proposes a gap analysis to identify shortcomings in the current Enterprise Architecture and recommends addressing gaps through change requests.

Incorporates disaster recovery planning exercises, which are useful for testing resilience.

Weaknesses:

While thorough, the approach lacks the Architecture Compliance Review process, which is a more structured way to ensure the architecture meets resilience requirements.

Monitoring suppliers and running disaster recovery exercises are operational steps rather than strategic architectural improvements.

Conclusion: Incorrect. While it includes valid activities, it does not adhere to TOGAF's structured approach for architecture assessment and compliance.

Option D:

Strengths:

Proposes analyzing business continuity requirements and assessing the architecture for gaps, which is relevant to the scenario.

Suggests initiating an ADM cycle to address gaps, which aligns with TOGAF principles.

Weaknesses:

Focusing on initiating a new ADM cycle may be premature, as the immediate priority is to evaluate the existing architecture and address specific resilience concerns.

Does not mention compliance review or tailored resilience measures for ransomware attacks, which are central to the scenario.

Conclusion: Incorrect. It proposes a broader approach that may not adequately address the immediate concerns highlighted by the CSO.

TOGAF Reference

Architecture Compliance Review: A structured process used to evaluate whether an architecture meets the stated goals, objectives, and requirements (TOGAF 9.2, Chapter 19). It is particularly useful for identifying and addressing resilience requirements in scenarios involving security risks.

Stakeholder Engagement: Identifying and involving stakeholders (e.g., departments) is a critical part of architecture governance and compliance review (TOGAF 9.2, Section 24.2).

Change Management: The Architecture Compliance Review supports identifying necessary changes, which are then managed through governance and change management processes (TOGAF 9.2, Section 21.6).

By choosing Option B, you align with TOGAF's structured approach to compliance, resilience, and addressing security concerns.

NEW QUESTION: 14

Please read this scenario prior to answering the question

Your role is that of a senior architect, reporting to the Chief Enterprise Architect, at a medium-sized company with 400 employees. The nature of the business is such that the data and the information stored on the company systems is their major asset and is highly confidential.

The company employees travel extensively for work and must communicate over public infrastructure using message encryption, VPNs, and other standard safeguards. The company has invested in cybersecurity awareness training for all its staff. However, it is recognized that even with good education as well as system security, there is a dependency on third-party suppliers of infrastructure and software.

The company uses the TOGAF standard as the method and guiding framework for its Enterprise Architecture (EA) practice. The CTO is the sponsor of the activity.

The Chief Security Officer (CSO) has noted an increase in ransomware (malicious software used in ransom demands) attacks on companies with a similar profile. The CSO recognizes that no matter how much is spent on education, and support, it is likely just a matter of time before the company suffers a significant attack that could completely lock them out of their information assets.

A risk assessment has been done and the company has sought cyber insurance that includes ransomware coverage. The quotation for this insurance is hugely expensive. The CTO has

recently read a survey that stated that one in four organizations paying ransoms were still unable to recover their data, while nearly as many were able to recover the data without paying a ransom. The CTO has concluded that taking out cyber insurance in case they need to pay a ransom is not an option.

Refer to the scenario

You have been asked to describe the steps you would take to improve the resilience of the current architecture?

Based on the TOGAF standard which of the following is the best answer?

- A.** You would determine business continuity requirements, and undertake a gap analysis of the current Enterprise Architecture. You would make recommendations for change requirements to address the situation and create a change request. You would manage a meeting of the Architecture Board to assess and approve the change request. Once approved you would produce a new Request for Architecture Work to activate an ADM cycle to carry out a project to define the change.
- B.** You would monitor for technology changes from your existing suppliers that could improve resilience. You would prepare and run a disaster recovery planning exercise for a ransomware attack and analyze the performance of the current Enterprise Architecture. Using the findings, you would prepare a gap analysis of the current Enterprise Architecture. You would prepare change requests to address identified gaps. You would add the changes implemented to the Architecture Repository.
- C.** You would ensure that the company has in place up-to-date processes for managing change to the current Enterprise Architecture. Based on the scope of the concerns raised you recommend that this be managed at the infrastructure level. Changes should be made to the baseline description of the Technology Architecture. The changes should be approved by the Architecture Board and implemented by change management techniques.
- D.** You would request an Architecture Compliance Review with the scope to examine the company's resilience to ransomware attacks. You would identify the departments involved and have them nominate representatives. You would then tailor checklists to address the requirement for increased resilience. You would circulate to the nominated representatives for them to complete. You would then review the completed checklists, identifying and resolving issues. You would then determine and present your recommendations.

Answer: ([SHOW ANSWER](#))

Business continuity is the ability of an organization to maintain essential functions during and after a disaster or disruption. Business continuity requirements are the specifications and criteria that define the acceptable level of performance and availability of the business processes and services in the event of a disaster or disruption. A gap analysis is a technique that compares the current state of the architecture with the desired state, and identifies the gaps or differences that need to be addressed. A change request is a formal proposal for an amendment to some product or system, such as the architecture. A Request for Architecture Work is a document that describes the scope, approach, and expected outcomes of an architecture project¹²³ The best answer is A, because it describes the steps that would improve the resilience of the current

architecture, which is the ability to withstand and recover from a ransomware attack or any other disruption. The steps are:

Determine the business continuity requirements, which specify the minimum acceptable level of performance and availability of the business processes and services in case of a ransomware attack. This would involve identifying the critical business functions, the recovery time objectives, the recovery point objectives, and the dependencies and resources needed for recovery.

Undertake a gap analysis of the current Enterprise Architecture, which compares the current state of the architecture with the desired state based on the business continuity requirements. This would involve assessing the strengths and weaknesses of the current architecture, the risks and opportunities for improvement, and the gaps or differences that need to be addressed.

Make recommendations for change requirements to address the situation and create a change request. This would involve proposing solutions and alternatives to close the gaps, enhance the resilience, and mitigate the risks of the current architecture. The change request would document the rationale, scope, impact, and benefits of the proposed changes, and seek approval from the relevant stakeholders.

Manage a meeting of the Architecture Board to assess and approve the change request. The Architecture Board is a governance body that oversees the architecture work and ensures compliance with the architecture principles, standards, and goals. The meeting would involve presenting the change request, discussing the pros and cons, resolving any issues or conflicts, and obtaining the approval or rejection of the change request.

Once approved, produce a new Request for Architecture Work to activate an ADM cycle to carry out a project to define the change. The Request for Architecture Work would describe the scope, approach, and expected outcomes of the architecture project that would implement the approved change request. The Request for Architecture Work would initiate a new cycle of the Architecture Development Method (ADM), which is the core process of the TOGAF standard that guides the development and management of the enterprise architecture.

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