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Exam Questions OGEA-102

TOGAF Enterprise Architecture Part 2 Exam (English)

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NEW QUESTION 1

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 Architectur
- B. You would make recommendations for change requirements to address the situation and create a change reques
- C. You would manage a meeting of the Architecture Board to assess and approve the change reques
- D. 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.
- E. 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 Architectur
- F. Using the findings, you would prepare a gap analysis of the current Enterprise Architectur
- G. You would prepare change requests to address identified gap
- H. You would add the changes implemented to the Architecture Repository.
- I. You would ensure that the company has in place up-to-date processes for managing change to the current Enterprise Architectur
- J. Based on the scope of the concerns raised you recommend that this be managed at the infrastructure leve
- K. Changes should be made to the baseline description of the Technology Architectur
- L. The changes should be approved by the Architecture Board and implemented by change management techniques.
- M. You would request an Architecture Compliance Review with the scope to examine the company's resilience to ransomware attack
- N. You would identify the departments involved and have them nominate representative
- O. You would then tailor checklists to address the requirement for increased resilienc
- P. You would circulate to the nominated representatives for them to complet
- Q. You would then review the completed checklists, identifying and resolving issue
- R. You would then determine and present your recommendations.

Answer: A

Explanation:

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.

References: 1: The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 33: Business Scenarios 2: The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 30: Gap Analysis 3: The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 31: Architecture Change Management : The TOGAF Standard, Version 9.2, Part II: Architecture Development Method (ADM), Chapter 7: Request for Architecture Work : The TOGAF Standard, Version 9.2, Part III:

ADM Guidelines and Techniques, Chapter 34: Business Transformation Readiness Assessment : The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 30: Gap Analysis : The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 31: Architecture Change Management : The TOGAF Standard, Version 9.2, Part VI: Architecture Capability Framework, Chapter 50: Architecture Governance : The TOGAF Standard, Version 9.2, Part II: Architecture Development Method (ADM), Chapter 7: Request for Architecture Work

NEW QUESTION 2

Please read this scenario prior to answering the question

You are working as the Chief Enterprise Architect within a law firm specializing in personal injury cases.

Many of the firm's competitors have improved their litigation strategies, and efficiency by streamlining their processes using Artificial Intelligence (AI).

The CIO has approved a Request for Architecture Work to examine the use of Machine Learning in defining a new AI-driven litigation and finance process for the

firm. This process would instruct the lawyers and analysts as to what tasks and portfolio they should work on. The key objectives are to increase task profitability, maximize staff utilization, and increase individual profitability.

The CIO has emphasized that the architecture should enable the fast implementation of continuous Machine Learning. The solution will need to be constantly measured for delivered value and be quickly iterated to success.

Some of the partners have expressed concerns about letting the AI make the decisions, others about the risks associated with use of it for the type of service they deliver. The CIO wants to know if these concerns can be addressed, and how risks will be covered by a new architecture enabling AI and Machine Learning.

Refer to the scenario

You have been asked to respond to the CIO recommending an approach that would enable the development of an architecture that addresses the concerns of the CIO and the concerns of the partners.

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

- A. You recommend that a Communications Plan be created to address the key stakeholders, the most powerful and influential partner
- B. This plan should include a report that summarizes the key features of the architecture reflecting their requirement
- C. You will check with each key stakeholder that their concerns are being addressed
- D. Risk mitigation and agility will be explicitly addressed as a component of the architecture being developed.
- E. You recommend that an analysis of the stakeholders is undertaken resulting in documenting the stakeholders and their concerns in a Stakeholder Map
- F. The concerns and relevant views should then be defined for each group and recorded in the Architecture Vision document
- G. The requirements will include risk mitigation through regular assessment
- H. This will also allow a supervised agile implementation of the continuous Machine Learning.
- I. You recommend that all possible models be created for each candidate architecture that will enable the AI and Machine Learning solution
- J. This ensures that all the necessary data and detail is addressed
- K. A formal review should be held with the stakeholders to verify that their concerns have been properly addressed by the model
- L. Agility will be considered during Phase G Implementation Governance.
- M. You recommend creation of a set of business models that can be applied uniformly across all architecture project
- N. The stakeholders will be trained to understand the business models to ensure they can see that their concerns are being addressed
- O. Risk will be addressed once the Security Architecture is developed, which will happen later to avoid slowing down the agility required by the CIO.

Answer: B

Explanation:

A Stakeholder Map is a technique that can be used to identify and classify the stakeholders of the architecture work, and to document their key interests, requirements, and concerns. A stakeholder is any person, group, or organization that has a stake in the outcome of the architecture work, such as the sponsor, the client, the users, the suppliers, the regulators, or the competitors. A Stakeholder Map can help to understand the needs and expectations of the stakeholders, and to communicate and engage with them effectively¹

The steps for creating a Stakeholder Map are:

- Identify the stakeholders of the architecture work, using various sources and methods, such as interviews, surveys, workshops, or existing documents.
 - Classify the stakeholders according to their roles, responsibilities, and relationships, using various criteria and dimensions, such as power, influence, interest, attitude, or impact.
 - Define the concerns and relevant views for each stakeholder group, using various techniques, such as business scenarios, use cases, or value propositions. A concern is a key interest or issue that is relevant to the stakeholder, such as a goal, a problem, a need, or a risk. A view is a representation of the system of interest from the perspective of one or more stakeholders and their concerns.
 - Record the stakeholders and their concerns in a Stakeholder Map, which shows the mapping between the stakeholder groups, the concerns, and the views. The Stakeholder Map also shows the dependencies, assumptions, and issues related to each stakeholder and concern.
- Therefore, the best answer is B, because it recommends the approach that would enable the development of an architecture that addresses the concerns of the CIO and the partners, using the Stakeholder Map technique. The answer covers the following aspects:
- An analysis of the stakeholders is undertaken, which involves identifying, classifying, and defining the stakeholders and their concerns.
 - The stakeholders and their concerns are documented in a Stakeholder Map, which provides a clear and comprehensive picture of the stakeholder landscape and their interests.
 - The concerns and relevant views are recorded in the Architecture Vision document, which is the output of Phase A: Architecture Vision 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. The Architecture Vision defines the scope and approach of the architecture work, and establishes the business goals and drivers that motivate the architecture work. The Architecture Vision also involves obtaining the approval and commitment of the sponsors and other key stakeholders, and initiating the Architecture Governance process²
 - The requirements include risk mitigation through regular assessments, which involves identifying, analyzing, and evaluating the risks that may affect the architecture, and determining the appropriate measures or actions to prevent, reduce, or mitigate the risks. Risk mitigation can also involve monitoring and reviewing the risk situation, and communicating and reporting the risk status and actions³
 - This approach also allows a supervised agile implementation of the continuous Machine Learning, which involves applying agile principles and practices to the architecture development and implementation, such as iterative and incremental delivery, frequent feedback, collaboration, and adaptation. A supervised agile implementation can help to ensure the quality, value, and alignment of the architecture, and to respond to the changing needs and expectations of the stakeholders.

References: 1: The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 24:

Stakeholder Management 2: The TOGAF Standard, Version 9.2, Part II: Architecture Development Method (ADM), Chapter 18: Phase A: Architecture Vision 3:

The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 32: Risk Management : The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 29: Applying Iteration to the ADM

NEW QUESTION 3

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 package
- B. Using the matrix as a planning tool, regroup the work packages to account for dependencies
- C. 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
- D. Document the work packages for the Enterprise Architecture using a Transition Architecture State Evolution Table.
- E. You recommend that a Consolidated Gap
- F. Solutions and Dependencies Matrix is used as a planning tool for creating work package
- G. For each gap classify whether the solution is either a new development, purchased solution, or based on an existing product
- H. Group the similar solutions together to define the work package
- I. 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.
- J. You recommend that an Implementation Factor Catalog is drawn up to indicate actions and constraints. A Consolidated Gap
- K. Solutions and Dependencies Matrix should also be created
- L. For each gap
- M. identify a proposed solution and classify it as new development, purchased solution, or based on an existing product
- N. Group similar activities together to form work package
- O. Identify dependencies between work packages factoring in the clinical trial schedule
- P. Regroup the work packages into a set of Capability Increments scheduled into a series of Transition Architectures.
- Q. 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
- R. Eliminate any duplicates
- S. Group the remaining Solution Building Blocks together to create the work packages using a CRUD (create, read, update, delete) matrix
- T. 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: B

Explanation:

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 Architecture¹²³

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.

References: 1: The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 30: Gap Analysis 2: The TOGAF Standard, Version 9.2, Part IV: Architecture Content Framework, Chapter 36: Building Blocks 3: The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 31 Architecture Change Management : The TOGAF Standard, Version 9.2, Part II: Architecture Development Method (ADM), Chapter 23: Phase E: Opportunities and Solutions : The TOGAF Standard, Version 9.2, Part II: Architecture Development Method (ADM), Chapter 21: Phase F: Migration Planning : The TOGAF Standard, Version 9.2, Part II: Architecture Development Method (ADM), Chapter 18: Phase A: Architecture Vision : The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 23: Architecture Principles

NEW QUESTION 10

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