review

review questions

AWS Architecture and Compliance V1.02

Course title

**BackSpace Academy
AWS Certified Associate**

BackSpace

Question

A user needs to obtain AWS compliance reports before migrating an environment to the AWS Cloud. How can these reports be generated?

Answers

    A.   Contact the AWS Compliance team
    B.   Download the reports from AWS Artifact
    C.   Open a case with AWS Support
    D.   Generate the reports with Amazon Macie

B

AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS security and compliance reports and select online agreements.

https://aws.amazon.com/artifact/

Question

For regular audits and setup evaluation of all AWS resources, identify non-compliant accounts and notification when a resource changes.

Which AWS service can be used to meet these requirements?

Answers

    A. AWS Trusted Advisor
    B. AWS Config
    C. AWS Resource Access Manager
    D. AWS Systems Manager

B

AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources.

https://docs.aws.amazon.com/config/latest/developerguide/WhatIsConfig.html

Question

Which architecture concept describes the ability to deploy resources on demand and release resources when they are no longer needed?

Answers

A. High availability
B. Decoupled architecture
C. Resilience
D. Elasticity

D

The ability to acquire resources as you need them and release resources when you no longer need them. In the cloud, you want to do this automatically.

https://wa.aws.amazon.com/wellarchitected/2020-07-02T19-33-23/wat.concept.elasticity.en.html

Question

A company would be launching an e-commerce site that will store and process credit card data. It should require information about AWS compliance reports and AWS agreements.
Which AWS managed service provides on-demand access to these items?

Answers

   A. AWS Certificate Manager
   B. AWS Config
   C. AWS Artifact
   D. AWS CloudTrail

C

AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS' security and compliance reports and select online agreements.

https://docs.aws.amazon.com/artifact/latest/ug/what-is-aws-artifact.html

Question

Which service allows users to download security and compliance reports about the AWS infrastructure on demand?

Answers

A. Amazon GuardDuty
B. AWS Security Hub
C. AWS Artifact
D. AWS Shield

C

AWS Artifact provides on-demand downloads of AWS security and compliance documents, such as AWS ISO certifications, Payment Card Industry (PCI), and Service Organization Control (SOC) reports.

https://docs.aws.amazon.com/artifact/latest/ug/what-is-aws-artifact.html

Question

For a compliance review, the auditor requires a copy of the AWS SOC 2 report.
Which service below should be used to submit this request?

Answers

  A.   AWS Personal Health Dashboard
  B.   AWS Trusted Advisor
  C.   AWS Artifact
  D.   Amazon S3

C

AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS

https://aws.amazon.com/compliance/soc-faqs/

Question

Performing operations as code is a design principle that supports which pillar of the AWS Well-Architected Framework?

Answers

A. Performance efficiency
B. Operational excellence
C. Reliability
D. Security

B

The Operational Excellence pillar includes the ability to support development and run workloads effectively, gain insight into their operation, and continuously improve supporting processes and procedures to delivery business value. You can find prescriptive guidance on implementation in the Operational Excellence Pillar whitepaper.

https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/

Question

Which design principle is achieved by following the reliability pillar of the AWS Well-Architected Framework?

Answers

A. Vertical scaling
B. Manual failure recovery
C. Testing recovery procedures
D. Changing infrastructure manually

C

Design Principles
Automatically recover from failure
Test recovery procedures Scale horizontally to increase aggregate workload availability
Stop guessing capacity
Manage change in automation

https://docs.aws.amazon.com/wellarchitected/latest/reliability-pillar/design-principles.html

Question

A company has an architecture design that includes Amazon EC2, an Elastic Load Balancer, and Amazon RDS.
What is the BEST way to get a monthly cost estimation for this architecture?

Answers

    A. Open an AWS Support case, provide the architecture proposal, and ask for a monthly cost   estimation.
    B. Collect the published prices of the AWS services and calculate the monthly estimate.
    C. Use the AWS Pricing Calculator to estimate the monthly cost.
    D. Use the AWS Total Cost of Ownership (TCO) Calculator to estimate the monthly cost.

C

The AWS Pricing Calculator is an easy-to-use online tool that enables you to estimate the monthly cost of AWS services for your use case based on your expected usage

https://docs.aws.amazon.com/pricing-calculator/latest/userguide/aws-pc.pdf

Question

Which service below can be used to track resource changes and establish compliance?

Answers

A. Amazon CloudWatch
B. AWS Config
C. AWS CloudTrail
D. AWS Trusted Advisor

B

AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations

https://docs.aws.amazon.com/config/latest/developerguide/evaluate-config.html

Question

A user has underutilized on-premises resources. Which Cloud concept would be the best option to address this issue?

Answers

- A. High availability
- B. Elasticity
- C. Security
- D. Loose coupling

B

Elasticity - Most people, when thinking of cloud computing, think of the ease with which they can procure resources when needed. This is only one aspect to elasticity. The other aspect is to contract when they no longer need resources. Scale out and scale in. Scale up and scale down

https://wa.aws.amazon.com/wat.concept.elasticity.en.html

Question

Which below task is required to deploy a PCI-compliant workload on AWS?

Answers

- A. Use any AWS service and implement PCI controls at the application layer
- B. Use an AWS service that is in-scope for PCI compliance and raise an AWS support ticket to enable PCI compliance at the application layer
- C. Use any AWS service and raise an AWS support ticket to enable PCI compliance on that service
- D. Use an AWS service that is in scope for PCI compliance and apply PCI controls at the application layer

D

The PCI DSS security standard in Security Hub supports the following controls. For each control, the information includes the severity, the resource type, the AWS Config rule, and the remediation steps.

https://docs.aws.amazon.com/securityhub/latest/userguide/securityhub-pci-controls.html

Question

An Enterprise company has a compliance requirement to record and evaluate configuration changes, as well as perform remediation actions on AWS resources. Which service below should the company use?

Answers

A. AWS Config
B. AWS Secrets Manager
C. AWS CloudTrail
D. AWS Trusted Advisor

A

AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources.

https://aws.amazon.com/config/

Question

Which AWS Cloud design principles can help increase reliability? (Choose two.)

Answers

A. Using monolithic architecture
B. Measuring overall efficiency
C. Testing recovery procedures
D. Adopting a consumption model
E. Automatically recovering from failure

C E

Test recovery procedures: In an on-premises environment, testing is often conducted to prove that the workload works in a particular scenario. Testing is not typically used to validate recovery strategies. In the cloud, you can test how your workload fails, and you can validate your recovery procedures. You can use automation to simulate different failures.

Automatically recover from failure: By monitoring a workload for key performance indicators (KPIs), you can trigger automation when a threshold is breached. These KPIs should be a measure of business value, not of the technical aspects of the operation of the service. This allows for automatic notification and tracking of failures, and for automated recovery processes that work around or repair the failure. With more sophisticated automation, it's possible to anticipate and remediate failures before they occur.

https://wa.aws.amazon.com/wat.pillar.reliability.en.html

Question

Which service below can be used to retrieve compliance reports on demand?

Answers

A. AWS Secrets Manager
B. AWS Artifact
C. AWS Security Hub
D. AWS Certificate Manager

B

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Answers

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  B.   Decoupled architecture
  C.   Resilience
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Question

Which guideline is a well-architected design principle for building cloud applications?

Answers

    A.   Keep static data closer to compute resources.
    B.   Provision resources for peak capacity.
    C.   Design for automated recovery from failure.
    D.   Use tightly coupled components.

C

In the cloud, there are a number of principles that can help you increase reliability. Keep these in mind as we discuss best practices:

- Automatically recover from failure:
- Test recovery procedures:
- Scale horizontally to increase aggregate workload availability:
- Stop guessing capacity:
- Manage change in automation:

https://docs.aws.amazon.com/wellarchitected/latest/reliability-pillar/design-principles.html

Question

Which of the following cloud architecture principle states that systems should reduce interdependencies?

Answers

- A. Scalability
- B. Services, not servers
- C. Removing single points of failure
- D. Loose coupling

D

A loosely coupled workload entails the processing of many smaller jobs. Generally, the smaller job runs on one node, either consuming one process or multiple processes with shared memory parallelization (SMP) for parallelization within that node.

https://docs.aws.amazon.com/wellarchitected/latest/high-performance-computing-lens/loosely-coupled-scenarios.html