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MODULE 1 - DESIGN RESILIENT ARCHITECTURES		
CHAPTER 1	DESIGN A MULTI-TIER ARCHITECTURE SOLUTION	
 Determine a sol Determine a scal based on require Select an appro 	ution design based on access patterns. ling strategy for components used in a design. Select an appropriate database ements. priate compute and storage service based on requirements	
CHAPTER 2	DESIGN HIGHLY AVAILABLE AND/OR FAULT-TOLERANT ARCHITECTURES	
Determine the a across Availabil	mount of resources needed to provide a fault-tolerant architecture ity Zones.	
 Select a highly a Apply AWS service changes are not Select an appropriate performance inditional sector of the sect	available configuration to mitigate single points of failure. vices to improve the reliability of legacy applications when application t possible. oriate disaster recovery strategy to meet business requirements. Identify key icators to ensure the high availability of the solution	
CHAPTER 3	DESIGN DECOUPLING MECHANISMS USING AWS SERVICES	
Determine which components. De decoupling.	h AWS services can be leveraged to achieve loose coupling of etermine when to leverage serverless technologies to enable	
CHAPTER 4	CHOOSE APPROPRIATE RESILIENT STORAGE	
 Define a strate Identify how da Select data ser Identify storage applications 	egy to ensure the durability of data. ta service consistency will affect the operation of the application. vices that will meet the access requirements of the application. e services that can be used with hybrid or non-cloud-native	



MODULE 2 - DESIGN HIGH-PERFORMING ARCHITECTURES

CHAPTER 1

IDENTIFY ELASTIC AND SCALABLE COMPUTE SOLUTIONS FOR A WORKLOAD

- Select the appropriate instance(s) based on compute, storage, and networking requirements.
- Choose the appropriate architecture and services that scale to meet performance requirements.
- Identify metrics to monitor the performance of the solution

CHAPTER 2	SELECT HIGH-PERFORMING AND SCALABLE STORAGE SOLUTIONS FOR A WORKLOAD	
Select a storageDetermine storage	service and configuration that meets performance demands. ge services that can scale to accommodate future needs.	
CHAPTER 3	SELECT HIGH-PERFORMING NETWORKING SOLUTIONS FOR A WORKLOAD	
 Select appropriate AWS connectivity options to meet performance demands. Select appropriate features to optimize connectivity to AWS public services. Determine an edge caching strategy to provide performance benefits. Select appropriate data transfer service for migration and/or ingestion 		
CHAPTER 4	CHOOSE HIGH-PERFORMING DATABASE SOLUTIONS FOR A WORKLOAD	
 Select an appropriate database scaling strategy. Determine when database caching is required for performance improvement. 		

Choose a suitable database service to meet performance needs.

MODULE 3 - DESIGN SECURE APPLICATIONS AND ARCHITECTURES

CHAPTER 1	DESIGN SECURE ACCESS TO AWS RESOURCES	

- Determine when to choose between users, groups, and roles. Interpret the net effect of a given access policy.
- Select appropriate techniques to secure a root account.
- Determine ways to secure credentials using features of AWS IAM.
- Determine the secure method for an application to access AWS APIs.
- Select appropriate services to create traceability for access to AWS resources.

AWS Solution Architect

CHAPTER 2	DESIGN SECURE APPLICATION TIERS
 Given traffic control requirements, determine when and how to use security groups and network ACLs. Determine a network segmentation strategy using public and private subnets. Select the appropriate routing mechanism to securely access AWS service endpoints or internet-based resources from Amazon VPC. Select appropriate AWS services to protect applications from external threats. 	
CHAPTER 3	SELECT APPROPRIATE DATA SECURITY OPTIONS
 Determine the properties Select appropriate services. 	olicies that need to be applied to objects based on access te encryption options for data at rest and in transit for AWS

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• Select appropriate key management options based on requirements.

MODULE 4 - DESIGN COST-OPTIMIZED ARCHITECTURES	
CHAPTER 1	IDENTIFY COST-EFFECTIVE STORAGE SOLUTIONS
 Determine the m Apply automated minimize costs 	nost cost-effective data storage options based on requirements. d processes to ensure that data over time is stored on storage tiers that





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