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AWS Certified Solutions Architect - Professional

EXAMINATION CONTENT OUTLINE

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About AWS Exam

Exam Process

- **AWS Certification helps learners build credibility and confidence** by validating their cloud expertise with an industry-recognized credential and organizations identify skilled professionals to lead cloud initiatives using AWS.

- Organizations need individuals with cloud skills to help transform their business. **AWS Training and Certification helps you build and validate your cloud skills so you can get more out of the cloud**. Our content is built by experts at AWS and updated regularly to keep pace with AWS updates, so you can be sure you're learning the latest and keeping your cloud skills fresh.

- **We offer both digital and classroom training**, so you can choose to learn online at your own pace or learn best practices from an instructor. Whether you are just starting out, building on existing IT skills, or sharpening your cloud knowledge, AWS Training and Certification can help you be more effective and do more in the cloud.

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Overview of - AWS Certified Solutions Architect - Professional

The AWS Certified Solutions Architect – Professional exam validates advanced technical skills and experience in designing distributed applications and systems on the AWS platform. Example concepts you should understand for this exam include:

- Designing and deploying dynamically scalable, highly available, fault-tolerant, and reliable applications on AWS
- Selecting appropriate AWS services to design and deploy an application based on given requirements
- Migrating complex, multi-tier applications on AWS
- Designing and deploying enterprise-wide scalable operations on AWS
- Implementing cost-control strategies

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Overview of - AWS Certified Solutions Architect - Professional

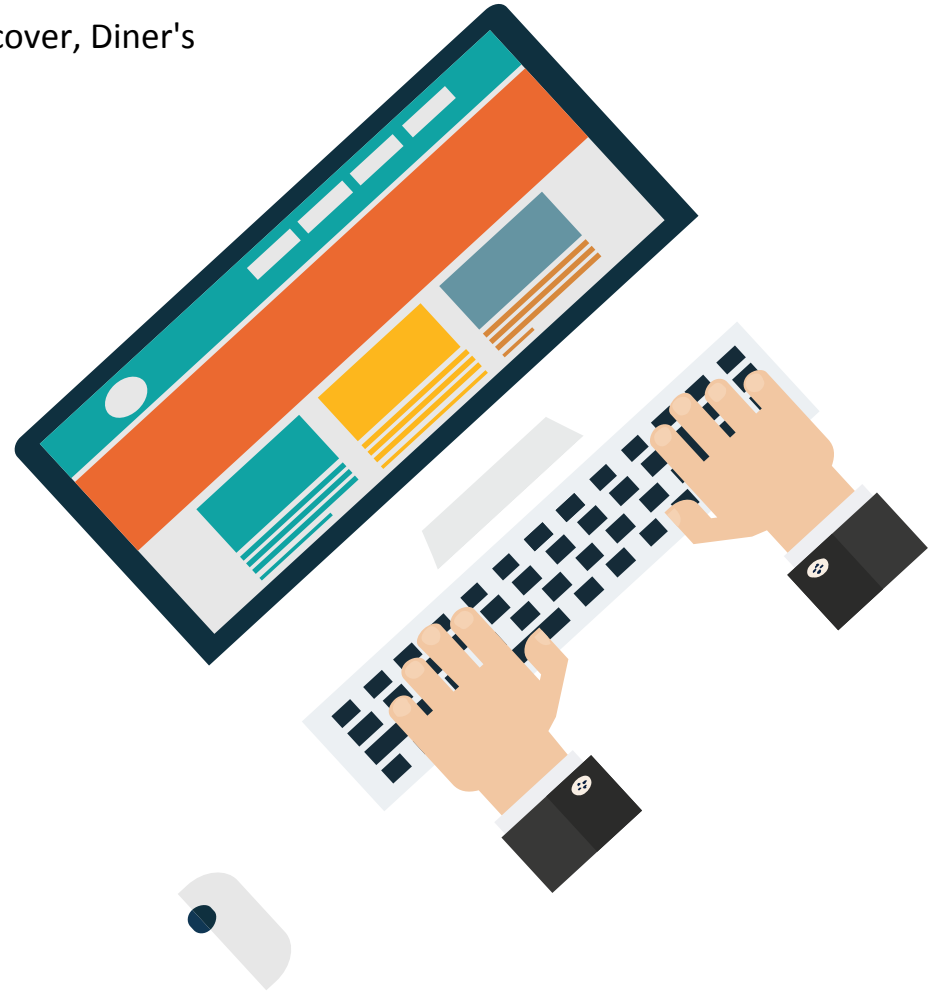
The AWS Certified Solutions Architect – Professional exam is intended for individuals who perform a Solutions Architect role. This exam validates an examinee's ability to:

- Identify and gather requirements in order to define a solution to be built on AWS
- Evolve systems by introducing new services and features
- Assess the tradeoffs and implications of architectural decisions and choices for applications deployed in AWS
- Design an optimal system by meeting project requirements while maximizing characteristics such as scalability, security, reliability, durability, and cost effectiveness
- Evaluate project requirements and make recommendations for implementation, deployment, and provisioning applications on AWS
- Provide best practice and architectural guidance over the lifecycle of a project

AWS Certified Solutions Architect - Professional

Application Payment

- Our test delivery vendor, PSI, accepts Visa, MasterCard, or American Express card numbers. Discover, Diner's Club, and JCB cards are currently not accepted.
- For countries that have implemented a Value Added Tax (VAT), customers will be charged the applicable rate as determined by their country.



To generate a receipt

To generate a receipt for an exam you registered for in PSI, access your AWS Certification Account within the AWS Training and Certification Portal and click “Manage PSI Exams.” From PSI, click “View Details” beside the scheduled exam to find the “Print Receipt” button.

Rescheduling/ Refund

Rescheduling or cancelling a PSI exam within 48 hours of your exam time will result in a USD 60 fee. You will not be able to reschedule or cancel an exam within 24 hours of exam time. If you miss your scheduled exam appointment, you will forfeit the exam fee and are not eligible for a refund. A full refund is provided if you cancel your exam with more than 48 hours’ notice.

AWS Certified Solutions Architect - Professional

Eligibility Requirements

The knowledge and skills required at the professional level include the majority of the following AWS and general IT knowledge areas:

AWS Knowledge

- AWS core services, including: Compute and Networking, Storage and CDN, Database, Application Services, Deployment and Management.
- Security features that AWS provides and best practices
- Able to design and implement for Elasticity and scalability
- Network technologies as they relate to AWS networking, including: DNS and load balancing, Amazon Virtual Private Cloud (VPC), and AWS Direct Connect
- Storage and archival options
- State management
- Database and replication methodologies
- Self-healing techniques and fault-tolerant services
- Disaster Recovery and fail-over strategies
- Application migration plans to AWS
- Network connectivity options
- Deployment and management

General IT Knowledge

- Large-scale distributed systems architecture
- Eventual consistency • Relational and non-relational databases
- Multi-tier architectures: load balancers, caching, web servers, application servers, networking and databases
- Loose coupling and stateless systems
- Content Delivery Networks
- System performance tuning
- Networking concepts including routing tables, access control lists, firewalls, NAT, HTTP, DNS, TCP/IP, OSI model
- RESTful Web Services, XML, JSON
- One or more software development models
- Information and application security concepts including public key encryption, remote access, access credentials, and certificate-based authentication

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AWS CERTIFIED SOLUTIONS ARCHITECT PROFESSIONAL

Exam Pattern

Each certification candidate is required to pass a written examination that consists of multiple-choice questions. The available mode of languages: English, Japanese, Korean, Simplified Chinese.
The duration of exam is 2 hours 50 minutes.

Response Types:

There are two types of questions on the examination:

- Multiple-choice: Has one correct response and three or four incorrect responses (distracters).
- Multiple-response: Has two or more correct responses out of five or more options.

Format	Duration
MCQs/ Multiple answer	170 minutes

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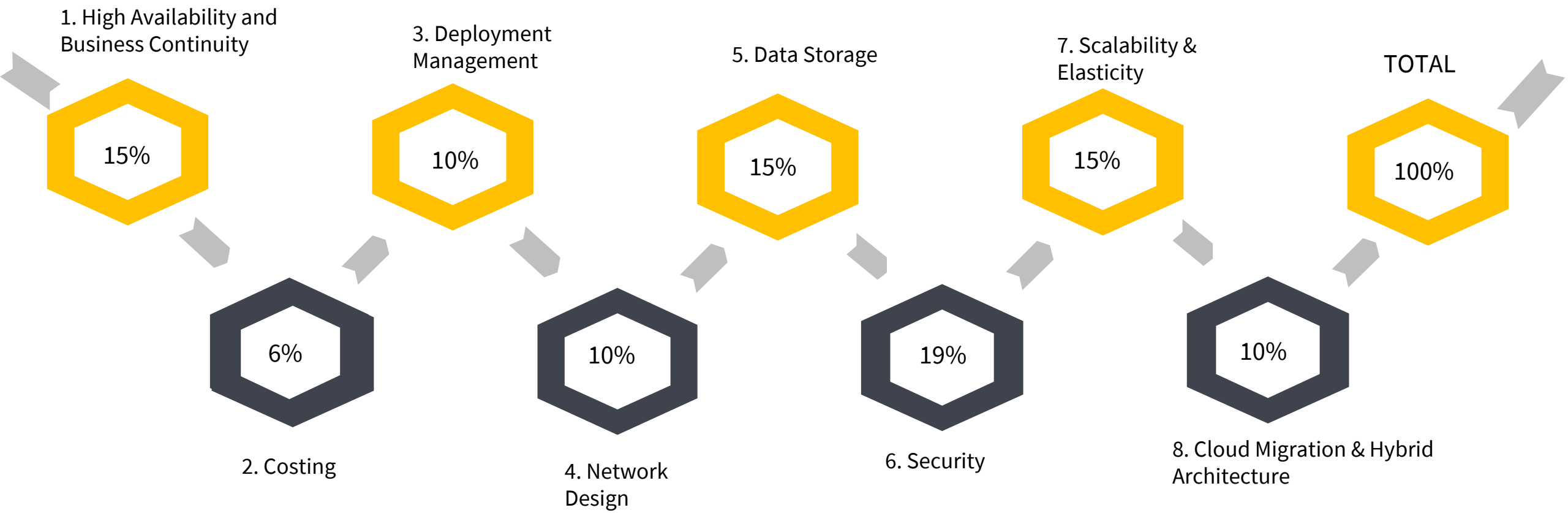
AWS Certified Solutions Architect - Professional Blueprint



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Free Sample Paper

1. Your company's on-premises content management system has the following architecture:

- Application Tier – Java code on a JBoss application server
- Database Tier – Oracle database regularly backed up to Amazon Simple Storage Service (S3) using the Oracle RMAN backup utility
- Static Content – stored on a 512GB gateway stored Storage Gateway volume attached to the application server via the iSCSI interface

Which AWS based disaster recovery strategy will give you the best RTO?

A. Deploy the Oracle database and the JBoss app server on EC2. Restore the RMAN Oracle backups from Amazon S3. Generate an EBS volume of static content from the Storage Gateway and attach it to the JBoss EC2 server.
B. Deploy the Oracle database on RDS. Deploy the JBoss app server on EC2. Restore the RMAN Oracle backups from Amazon Glacier. Generate an EBS volume of static content from the Storage Gateway and attach it to the JBoss EC2 server.
C. Deploy the Oracle database and the JBoss app server on EC2. Restore the RMAN Oracle backups from Amazon S3. Restore the static content by attaching an AWS Storage Gateway running on Amazon EC2 as an iSCSI volume to the JBoss EC2 server.
D. Deploy the Oracle database and the JBoss app server on EC2. Restore the RMAN Oracle backups from Amazon S3. Restore the static content from an AWS Storage Gateway-VTL running on Amazon EC2

2. You are designing network connectivity for your fat client application. The application is designed for business travellers who must be able to connect to it from their hotel rooms, cafes, public Wi-Fi hotspots, and elsewhere on the Internet. You do not want to publish the application on the Internet.

Which network design meets the above requirements while minimizing deployment and operational costs?

A. Implement AWS Direct Connect, and create a private interface to your VPC. Create a public subnet and place your application servers in it.
B. Implement Elastic Load Balancing with an SSL listener that terminates the back-end connection to the application.
C. Configure an IPsec VPN connection, and provide the users with the configuration details. Create a public subnet in your VPC, and place your application servers in it.
D. Configure an SSL VPN solution in a public subnet of your VPC, then install and configure SSL VPN client software on all user computers. Create a private subnet in your VPC and place your application servers in it.

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