Cognixia™

AWS Solution Architect Professional Level Course Content

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Topics covered in the training

- ➢ **High Availability and Business Continuity**
- • Architect the appropriate level of availability based on stakeholder requirements
- • Implement DR for systems based on RPO and RTO
- • Learn appropriate use of multi-availability zones multi-region architectures
- • Implement self-healing capabilities

- ➢ **Costing**
- • Minimize and optimize infrastructure cost
- • Account and billing set-up options
- • Cost implications of different architectures

- ➢ **Deployment Management**
- • Manage the lifecycle of an application on AWS
- • Architectures for development, testing, and staging environments
- • Position and select AWS deployment mechanisms by need

- ➢ **Network Design**
- • Complex large-scale deployment
- • Design and implement networking features of AWS
- • Design and implement connectivity features of AWS

- ➢ **Data Storage**
- • Architectural trade off decisions involving storage options
- • Architectural trade off decisions involving database options
- • Implement the most appropriate data storage architecture
- • Synchronous versus asynchronous replication

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Topics covered in the training

- ➢ **Security**
- Information security management systems and compliance controls
- Security controls with the AWS shared responsibility model and global infrastructure
- Identity and access management controls
- Protection of Data at Rest controls
- Protection of Data in Flight and Network Perimeter controls

- ➢ **Scalability and Elasticity**
- Design a loosely-coupled system
- Implement front-end scaling architecture
- Implement middle-tier scaling architecture
- Implement data storage scaling architecture
- Vertical and horizontal scaling

- ➢ **Cloud Migration and Hybrid Architecture**
- Planning and execution of applications migrations
- Design hybrid cloud architectures