

AWS Certified Data Engineer - Associate (DEA-C01)

Analytics:		
Amazon Athena	Serverless, Interactive query service	
Amazon EMR	Managed Hadoop framework	
AWS Glue	Fully managed ETL (extract, transform, and load) service	
AWS Glue	Visual data preparation tool to clean and	
DataBrew	normalize data without writing any code	
AWS Lake Formation	Build, secure, and manage your data lake	
Amazon Kinesis	Get actionable insights from streaming	
Data Analytics	data in real time	
Amazon Kinesis	Prepare and load real-time data streams	
Data Firehose	into data stores and analytics tools	
Amazon Kinesis	Collect data and make it available for	
Data Streams	processing and analysing in real time	
Amazon MSK	Fully managed service for Apache Kafka	
Amazon	Run and Scale OpenSearch and	
OpenSearch Service	Elasticsearch Clusters	
Amazon QuickSight	Fast, easy to use business analytics	
Application Integration:		

Amazon AppFlow	Integrates apps and automates data flows without code
Amazon EventBridge	Serverless event bus to decouple event producers and consumers
Amazon Managed Workflows for Apache Airflow	Run Apache Airflow without provisioni or managing servers
Amazon SNS	Managed message topics for Pub/Sub
Amazon SQS	Managed message queues
AWS Step Functions	Serverless function orchestrator

Cloud Financial Management:

AWS Budgets	Set custom budgets and receive alerts
AWS Cost Explorer	Visualize and explore your AWS costs and
	usage

Compared	
AWS Batch	Fully managed batch processing at any scale
Amazon EC2	Virtual servers in the cloud
AWS Lambda	Run code without thinking about server

Disclaimer: The following is a non-exhaustive list of the tools and technologies that could appear on the exam. This list is subject to change and is provided to help you understand the general scope of services, features, or technologies on the exam. The general tools and technologies in this list appear in no particular order.

Compute (contd.):	
AWS Serverless Application Model (AWS SAM)	Open-source framework to build serverless applications on AWS
Containers:	
Amazon ECR	Fully-managed Docker container registry
Amazon ECS	Highly secure, reliable, and scalable way to run containers
Amazon EKS	Managed service to run Kubernetes on AWS
Database:	
Amazon	Fully-managed MongoDB-compatible
DocumentDB	database service
Amazon DynamoDB	Managed NoSQL database
Amazon	
Keyspaces	Serverless Cassandra-compatible database
Amazon	Redis-compatible, durable, in-memory
MemoryDB for	database service for ultra-fast
Redis	performance
Amazon Neptune	Fast, reliable graph database built for the cloud
Amazon RDS	Managed relational database service
Amazon Redshift	Fully managed, petabyte-scale data warehouse service
	warehouse service
Developer Tools:	
AWS CLI	AWS Command Line Interface - Enables you to interact with AWS services using commands in your command-line shell
AWS Cloud9	A Cloud IDE for writing, running, and debugging code
AWS Cloud Development Kit (AWS CDK)	Open-source software development framework to define cloud application resources using familiar programming languages
AWS CodeBuild	Build and Test Code
AWS CodeCommit	
AVV3 COUECOIIIIII	Store code in Frivate dit Repositories

AWS CodeDeploy Automate Code Deployments

AWS CodePipeline

Release Software using Continuous

Front-end Web and	d Mobile:	Networking and	Content Delivery:
Amazon API Gateway	Build, Deploy and Manage APIs	Amazon CloudFront	Global content
			Establish private
Machine Learning:		AVA/C Daireatal inte	VPCs and servic
Amazon	Build, train, and deploy machine learning	AWS PrivateLink premises, with	
SageMaker	models		internet
		Amazon Route 5	Scalable DNS an
Management and	Governance:	Amazon Route 5	registration
AWS	Create and manage resources with	Amazon VPC	Logically isolate
CloudFormation	templates		
AWS CloudTrail	Track user activity and API usage	Security, Identity	y, and Compliance:
Amazon CloudWatch	Monitor resources and applications	AWS IAM	Identity and access resources
Amazon CloudWatch Logs	Monitor resources and applications	AWS KMS	Securely generate encryption keys
AWS Config	Track resource inventory and changes	Amazon Macie	Automatically disconnection Available Availa
Amazon Managed	Fully managed Grafana service for	AWS Secrets	Rotate, manage, ai
Grafana	interactive data visualizations and dashboarding	Manager	throughout their li
A)A/C Ct	9	AWS Shield	Managed DDoS pro
AWS Systems	Centrally manage application and resource	A14/C 14/A F	Web application fir
Manager	in hybrid environments	AWS WAF	applications from a
AWS Well-	Review your workloads against current		
Architected Tool AWS best practices		Storage:	
		AWS Backup	Centrally man
Migration and Transfer:		Avv3 backup	backups acros
AWS Application		Amazon FRS	Block storage

	AWS Application Discovery Service (AWS ADS)	Discover on-premises application inventory and dependencies	
	AWS Application Migration Service (AWS MGN)	Simplify and accelerate migrations to AWS (next generation of CloudEndure Migration)	
	AWS Database Migration Service (AWS DMS)	Managed database migration service	
ĺ	ANNS DataSuna	Simplifies, automates, and accelerates	

AVVS Datasync	moving data
AWS Schema Conversion Tool (AWS SCT)	Convert your existing database schema from one database engine to another

AWS Snow Family	A collection of physical devices that help migrate large amounts of data
AWS Transfer	Fully managed file transfer into and out of

AWS over SFTP, FTPS and FTP

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CloudFront	Global content delivery network	
AWS PrivateLink	Establish private connectivity between VPCs and services hosted on AWS or on- premises, without exposing data to the internet	
Amazon Route 5	Scalable DNS and Domain Name registration	
Amazon VPC	Logically isolated virtual network	
Security, Identity	y, and Compliance:	
AWS IAM	Identity and access management for AWS resources	
AWS KMS	Securely generate and manage AWS encryption keys	
Amazon Macie	Automatically discover, classify, and protect sensitive data in AWS	
AWS Secrets	Rotate, manage, and retrieve secrets	
Manager	throughout their lifecycle	
AWS Shield	Managed DDoS protection service	

Jioi age.	
AWS Backup	Centrally manages and automates backups across AWS service
Amazon EBS	Block storage for use with EC2 instance
Amazon EFS	Managed file storage for EC2
Amazon S3	Scalable object storage in the cloud
Amazon S3 Glacier	Archive storage in the cloud

applications from attacks

Web application firewall to protect web

Exam Level	Length	Cost	Questions	
Associate	170 minutes	75 USD* (Beta)	85	
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Domain:			% of Exam	
Domain 1: Data Ingestion and Transformation			34%	
Domain 2: Data Store Management			26%	
Domain 3: Data Operations and Support			22%	
Domain 4: Data Security and Governance			18%	
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Ashish Prajapati	26-Nov-2023	ľ	
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AWS services are grouped according to their primary functions. While some of these technologies will likely be covered more than others on the exam, the order and placement of them in this i

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