

Auditing and Logging Services:

CloudWatch

CloudWatch is a collection of services that help you monitor and observe your cloud resources.



CloudTrail

CloudTrail tracks user activity and API calls within your account.



Things You Can Track with **CloudTrail**



Things to Remember When Studying for the Exam



CloudWatch

Don't forget you can use CloudWatch to monitor your EC2 instances and notify you when certain events occur.



CloudTrail

Don't forget the things you can track with CloudTrail: username, event time and name, IP address, access key, Region, and error code.

Compute



EC2

EC2 allows you to rent and manage virtual servers in the cloud.

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Lambda

Lambda is a serverless compute service that lets you run code without managing servers.

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Fargate

Fargate is a serverless compute engine for containers.

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Lightsail

Lightsail allows you to quickly launch all the resources you need for small projects.

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Outposts

Outposts allows you to run cloud services in your internal data center.

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Batch

Batch allows you to process large workloads in smaller chunks (or batches).

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Storage



S3

S3 is an object storage service for the cloud that is highly available.

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EBS

EBS is a storage device (called a volume) that can be attached to (or removed from) your instance.

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EFS

EFS is a serverless network file system for sharing files.

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Storage Gateway

Storage Gateway is a hybrid storage service.

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AWS Backup

Helps you manage data backups across multiple data services

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Content Delivery



CloudFront

CloudFront is a CDN that delivers data and applications globally with low latency.

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Global Accelerator

Global Accelerator sends your users through the AWS global network when accessing your content, speeding up delivery.

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S3 Transfer Acceleration

S3 Transfer Acceleration improves content uploads and downloads to and from S3 buckets.

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Networking



Route 53

Route 53 is a DNS service that routes users to applications.

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Virtual Private Cloud (VPC)

VPC is a foundational service that allows you to create a secure private network in the AWS Cloud where you launch your resources.

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Direct Connect

Direct Connect is a dedicated physical network connection from your on-premises data center to AWS.

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Virtual Private Network (VPN)

Site-to-Site VPN creates a secure connection between your internal networks and your AWS VPCs.

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Amazon API Gateway

Allows you to build and manage APIs

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Databases



Relational Database Service (RDS)

RDS is a service that makes it easy to launch and manage relational databases.

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Aurora

Aurora is a relational database compatible with MySQL and PostgreSQL that was created by AWS.

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DynamoDB

DynamoDB is a fully managed NoSQL key-value and document database.

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DocumentDB

DocumentDB is a fully managed document database that supports MongoDB.

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ElastiCache

ElastiCache is a fully managed in-memory datastore compatible with Redis or Memcached.

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Neptune

Neptune is a fully managed graph database that supports highly connected datasets.

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Migration and Transfer



Database Migration Service (DMS)

DMS helps you migrate databases to or within AWS.

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Server Migration Service (SMS)

SMS allows you to migrate on-premises servers to AWS.

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Snow Family

The Snow Family allows you to transfer large amounts of on-premises data to AWS using a physical device.

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DataSync

DataSync allows for online data transfer from on-premises to AWS storage services like S3 or EFS.

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Analytics



Redshift

Redshift is a scalable data warehouse solution.

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Athena

Athena is a query service for Amazon S3.

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Glue

Glue prepares your data for analytics.

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Kinesis

Kinesis allows you to analyze data and video streams in real time.

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Elastic MapReduce (EMR)

EMR helps you process large amounts of data.

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Data Pipeline

Data Pipeline helps you move data between compute and storage services running either on AWS or on-premises.

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Quick Insight

Data Pipeline helps you visualize data.

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Machine Learning



Rekognition

Rekognition allows you to automate your image and video analysis.

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Comprehend

Comprehend is a natural-language processing (NLP) service that finds relationships in text.

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Polly

Polly turns text into speech.

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SageMaker

SageMaker helps you build, train, and deploy machine learning models quickly.

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Translate

Translate provides language translation.

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Lex

Lex helps you build conversational interfaces like chatbots.

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Developer Tools



Cloud9

Cloud9 allows you to write code within an integrated development environment (IDE) from within your web browser.

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CodeCommit

CodeCommit is a source control system for private Git repositories.

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CodeBuild

CodeBuild allows you to build and test your application source code.

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CodeDeploy

CodeDeploy manages the deployment of code to compute services in the cloud or on-premises.

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CodePipeline

CodePipeline automates the software release process.

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X-Ray

X-Ray helps you debug production applications.

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Deployment and Infrastructure Management



CloudFormation

CloudFormation allows you to provision AWS resources using Infrastructure as Code (IaC).

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Elastic Beanstalk

Elastic Beanstalk allows you to deploy your web applications and web services to AWS.

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OpsWorks

OpsWorks allows you to use Chef or Puppet to automate the configuration of your servers and deploy code.

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Messaging and Integration



Simple Queue Service (SQS)

SQS is a message queuing service that allows you to build loosely coupled systems.

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Simple Notification Service (SNS)

SNS allows you to send emails and text messages from your applications.

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Simple Email Service (SES)

SES is an email service that allows you to send richly formatted HTML emails from your applications.

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Auditing, Monitoring, and Logging



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