

# Understanding AWS Core Services

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INTERACTING WITH AWS



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# Overview

**Reviewing the ways you interact with AWS services**

**Exploring the AWS Console and its use**

**Introducing the AWS Command Line Interface and its use**

**Introducing the AWS Software Developer Kit and supported languages**

# Methods of Interacting with AWS

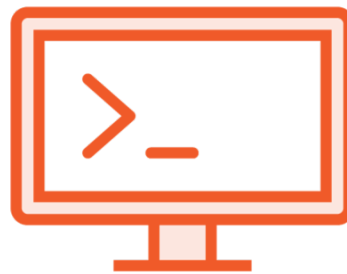
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# Interacting with AWS Services



## **AWS Console**

Users can leverage their browser to configure resources



## **AWS CLI**

Command line access for administering AWS resources



## **AWS SDK**

Programmatic access to manage AWS resources

# AWS Management Console

A web and app based interface for interacting with most all of the 150+ AWS services. All major browsers and mobile operating systems are supported.

# AWS Management Console

## AWS services

### Find Services

You can enter names, keywords or acronyms.

Example: Relational Database Service, database, RDS

### Recently visited services

Trusted Advisor

AWS Cost Explorer

Billing

Cognito

EC2

All services

## Access resources on the go



Access the Management Console using the AWS Console Mobile App. [Learn more](#)

## Explore AWS

### Event-Driven Architecture

Decoupled apps with automatic scaling and simplified auditing. Write less code, save money, and move faster than ever. [Learn more](#)

### Amazon GuardDuty

Protect your AWS accounts and workloads with intelligent threat detection. [Learn more](#)

# AWS Command Line Interface (CLI)

Tool to manage your use of AWS services from the command line on Windows, Mac, and Linux. Most every task that can be done in the console can be done in with the CLI.

# Using the AWS CLI

```
> aws iam list-users
```

```
{
  "Users": [
    {
      "Path": "/",
      "UserName": "test.user",
      "UserId": "AIDARCBHTJLQEYXXXXXXX",
      "Arn": "arn:aws:iam::XXXXXXXXXXXX:user/test.user",
      "CreateDate": "2019-09-17T19:51:57Z"
    }
  ]
}
```



# AWS Software Developer Kit (SDK)

Programming language-specific resources that allow you to interact with AWS services via code. This approach enables you to automate many aspects of how you interact with the platform.

# AWS SDK Languages

Java

.NET

Node.js

JavaScript  
(Browser)

PHP

Python

Ruby

Go

C++

## Interacting with AWS

**Console is a great method for testing out AWS services**

**Repeating tasks can be automated using the CLI or SDK**

**SDK enables automation of AWS tasks within custom applications**

**Most all services and actions can be performed in any of the three**

# Using the AWS Console

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# Demo

**Accessing the AWS Console in the browser**

**Reviewing login differences for root and IAM users**

**Selecting a specific regions**

**Reviewing the list of services supported in the AWS Console**

## Using the AWS CLI

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# Demo

**Accessing AWS access keys**

**Reviewing installation instructions**

**Configuring the AWS CLI for a specific user**

**Interacting with AWS utilizing the CLI**

# Scenario-based Review

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## Scenario 1



**Roger's company runs several production workloads in AWS**

**They have a new web application that manages digital assets for marketing**

**They need to automatically create a user account in Amazon Cognito on sign-up**

**They want this step seamlessly integrated into the application**

**Which interaction method would Roger's company use for this?**

## Scenario 2



**Eliza's company is considering transitioning to AWS**

**They want to leverage Amazon Relational Database Service**

**Eliza wants to test out a single database on the service**

**What interaction method would Eliza use for this use case?**

## Scenario 3



**Jennifer's company is a startup**

**They created a social network for entrepreneurs with a web and mobile app**

**Jennifer has a set of tasks she needs to run on AWS each day to generate reports**

**What interaction method would Jennifer use for this use case?**

# Summary

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## Scenario 1

**Roger's company runs several production workloads in AWS**

**They have a new web application that manages digital assets for marketing**

**They need to automatically create a user account in Amazon Cognito on sign-up**

**They want this step seamlessly integrated into the application**

**Which interaction method would Roger's company use for this?**

**Solution: Software Development Kit (SDK)**

## Scenario 2



**Eliza's company is considering transitioning to AWS**

**They want to leverage Amazon Relational Database Service**

**Eliza wants to test out a single database on the service**

**What interaction method would Eliza use for this use case?**

**Solution: AWS Console**

## Scenario 3



**Jennifer's company is a startup**

**They created a social network for entrepreneurs with a web and mobile app**

**Jennifer has a set of tasks she needs to run on AWS each day to generate reports**

**What interaction method would Jennifer use for this use case?**

**Solution: Command Line Interface (CLI)**