

Understanding AWS Core Services

INTERACTING WITH AWS



David Tucker

TECHNICAL ARCHITECT & CTO CONSULTANT

@_davidtucker_ davidtucker.net

AWS Cloud Practitioner Learning Path

**Fundamental Cloud Concepts
for AWS**

**Understanding AWS Core
Services**

**Introduction to Security &
Architecture on AWS**

**AWS Certified Cloud
Practitioner
Exam Prep**

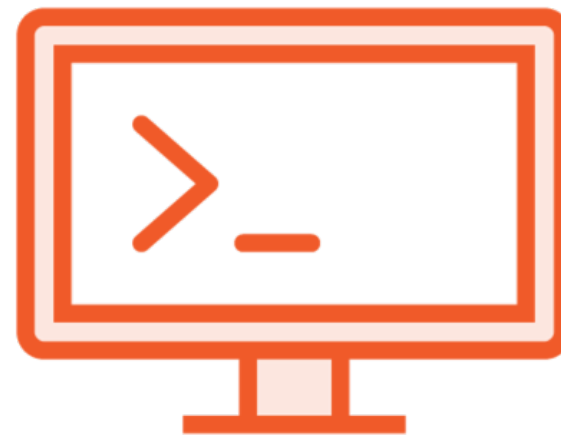
Methods of Interacting with AWS

Interacting with AWS Services



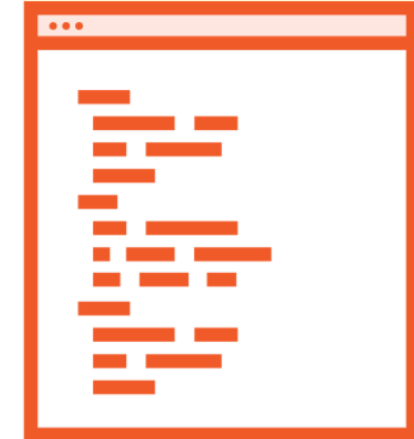
AWS Console

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](#)
-  [Cognito](#)
-  [AWS Cost Explorer](#)
-  [EC2](#)
-  [Billing](#)

▶ 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

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

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

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

Summary

Reviewed the ways you interact with AWS services

Explored the AWS Console and its use

Introduced the AWS Command Line Interface and its use

Introduced the AWS Software Developer Kit and supported languages

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)