

Understanding AWS Core Services

Interacting with AWS



David Tucker

CTO Consultant

@_davidtucker_ | davidtucker.net

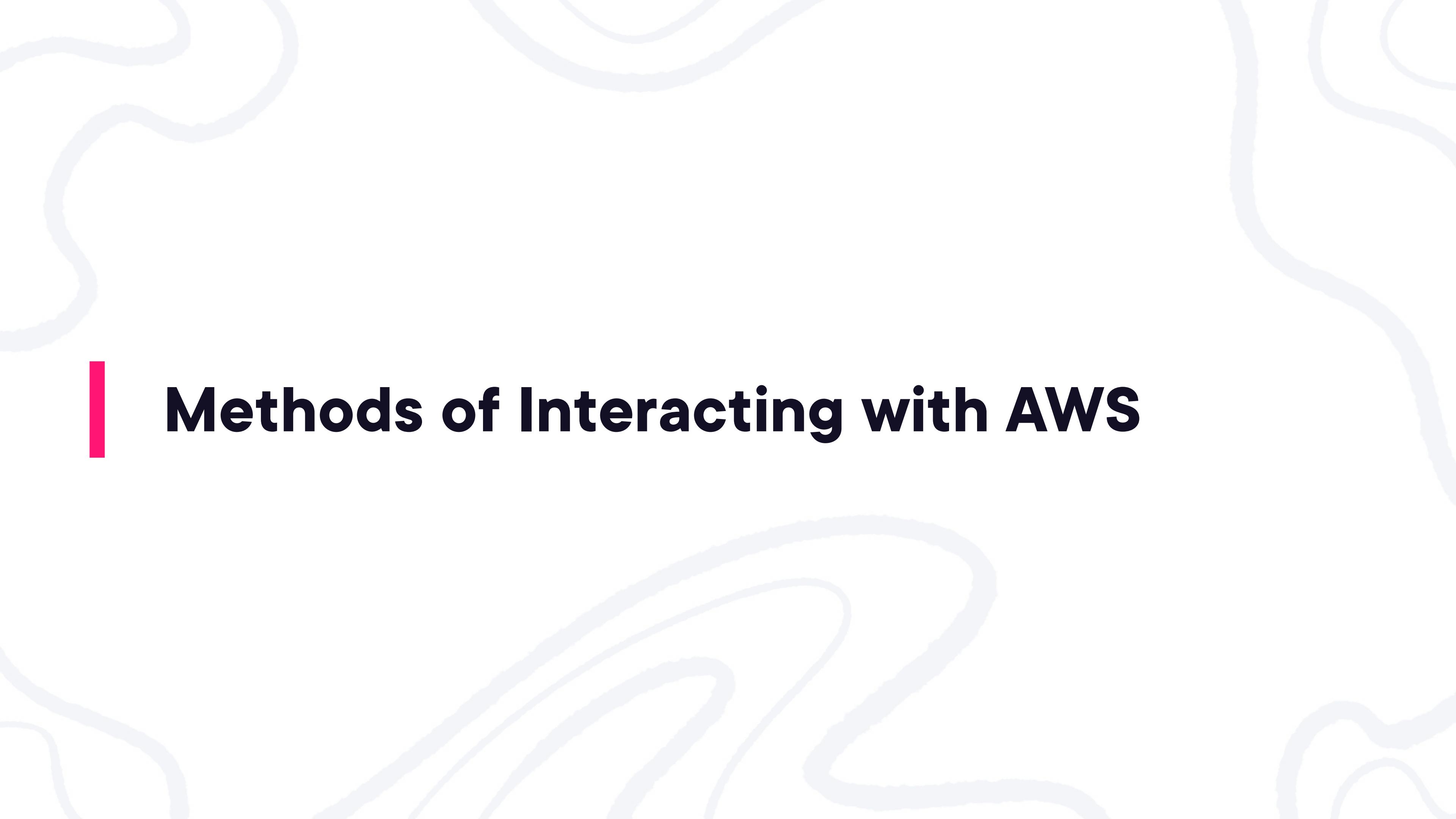
AWS Cloud Practitioner Learning Path

**Fundamental Cloud
Concepts for AWS**

**Understanding AWS
Core Services**

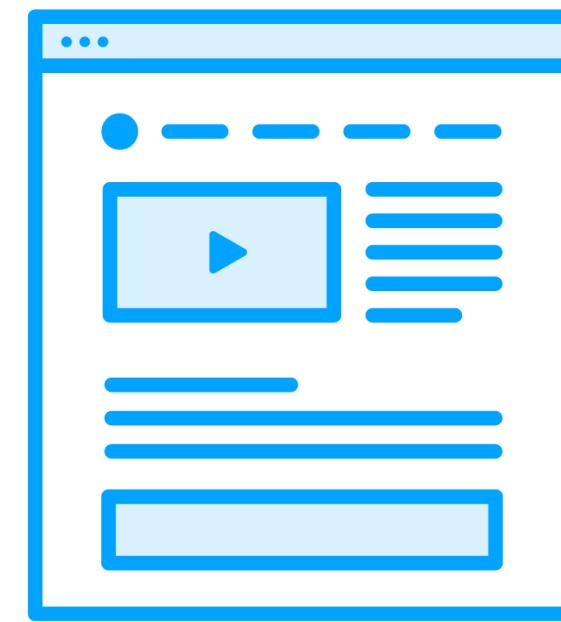
**Introduction to Security &
Architecture on AWS**

**AWS Certified Cloud
Practitioner Exam Prep**

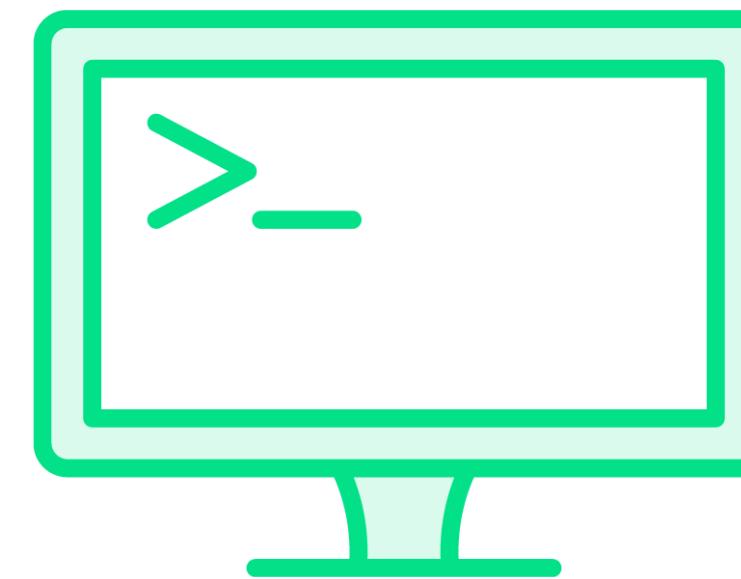


Methods of Interacting with AWS

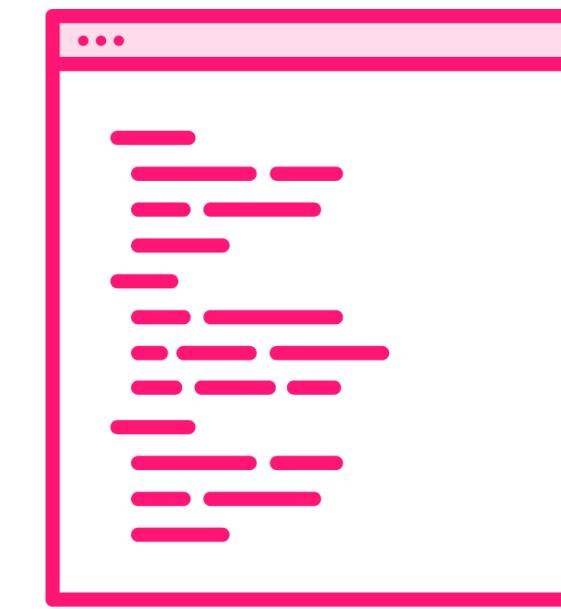
Interacting with AWS Services



AWS Console
Users can leverage
their browser to
configure resources



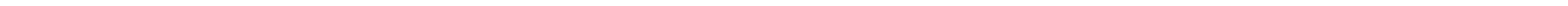
AWS CLI
Command line access
for administering AWS
resources



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

us-east-2.console.aws.amazon.com/console/home?region=us-east-2#

Services

Search [Option+S]

Ohio ▾

PS Test Account 2 ▾

Console Home

Recently visited

- AWS Health Dashboard
- Trusted Advisor
- VPC
- AWS Budgets

View all services

Welcome to AWS

- Getting started with AWS
- Training and certification
- What's new with AWS?

AWS Health

Open issues: 0 Past 7 days

Scheduled changes

Cost and usage

No cost and usage data to show

This could be because we are preparing your cost and usage data, or you don't have enough usage across AWS.

Reset to default layout

+ Add widgets

https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2

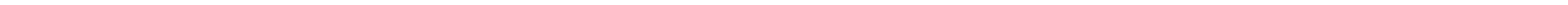
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AWS Command Line Interface (CLI)

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.



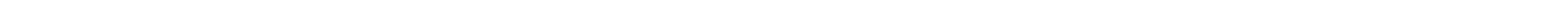
Using the AWS CLI

```
> aws iam list-users

{
  "Users": [
    {
      "Path": "/",
      "UserName": "test.user",
      "UserId": "AIDARCBHTJLQEYXXXXXXX",
      "Arn": "arn:aws:iam::XXXXXXXXXXXX:user/test.user",
      "CreateDate": "2023-01-02T19:51:57Z"
    }
  ]
}
```

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++

AWS SDK's are also available for *Kotlin*, *Rust*, and *Swift*.

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
CloudShell 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)