

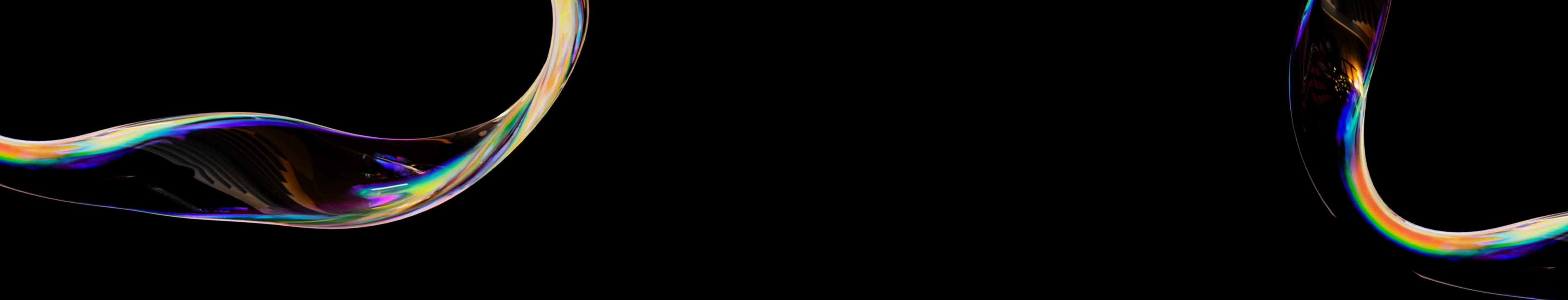
AWS COGNITO

AWS Security

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01

Introduction



INTRODUCTION

Amazon Cognito is a service that helps you manage user authentication and access control for your web and mobile applications. It allows you to easily add user sign-up, sign-in, and access control to your apps.

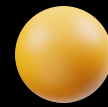




02

Key Features

USER POOLS



- **User Sign-Up and Sign-In:** Allows users to sign up and sign in to your applications.
- **User Management:** Stores user profiles securely and provides features like account recovery, multi-factor authentication (MFA), and verification via email or phone number.
- **OAuth Support:** Supports OAuth 2.0, OpenID Connect, and SAML for authentication and authorization.
- **Social Identity Providers:** Integrates with social identity providers like Google, Facebook, and Amazon.

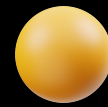
IDENTITY POOLS – FEDERATED IDENTITIES



- **Access Control:** Provides temporary AWS credentials to access AWS services directly.
- **Federated Identity:** Allows users to sign in through social identity providers, enterprise identity providers, or your own user pools.
- **Role-Based Access Control:** Assigns IAM roles based on user identity and group membership.



SECURITY FEATURES



- **Multi-Factor Authentication (MFA):** Adds an extra layer of security by requiring users to provide two forms of identification.
- **Advanced Security:** Includes risk-based adaptive authentication, compromised credentials protection, and account takeover prevention.
- **Compliance:** Helps meet regulatory requirements with features like encryption of data at rest and in transit.

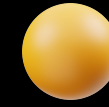
DEVELOPER FRIENDLY



- **SDKs and APIs:** Provides SDKs for various platforms and languages, including iOS, Android, JavaScript, and more.
- **Customization:** Allows customization of UI and workflows for sign-up and sign-in processes.
- **User Data Synchronization:** Synchronizes user data across devices with Cognito Sync.



SCALABILITY AND RELIABILITY



- High Availability: Built on AWS's scalable and reliable infrastructure, ensuring high availability for user authentication and management.
- Automatic Scaling: Automatically scales to handle millions of users and requests.





03

How it Works

HOW IT WORKS



01)

Create user pool &
integrate it with
your application



02)

Set up identity
pools



03)

Customize
Authentication



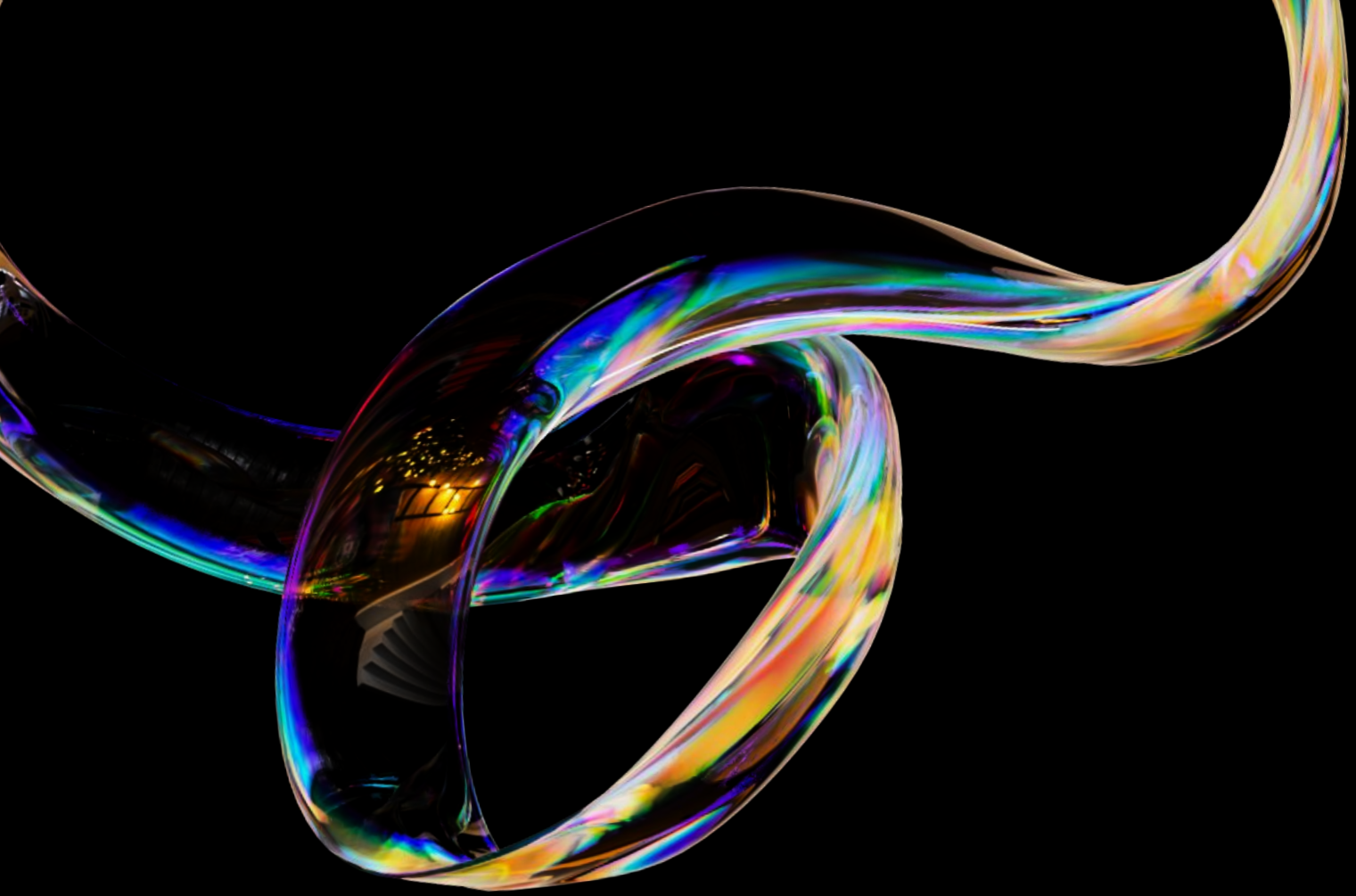
04)

Manage Users and
Monitor Activity



04

Use Cases



USE CASES



Web and Mobile Applications

Add user sign-up, sign-in, and authentication to applications with minimal effort.



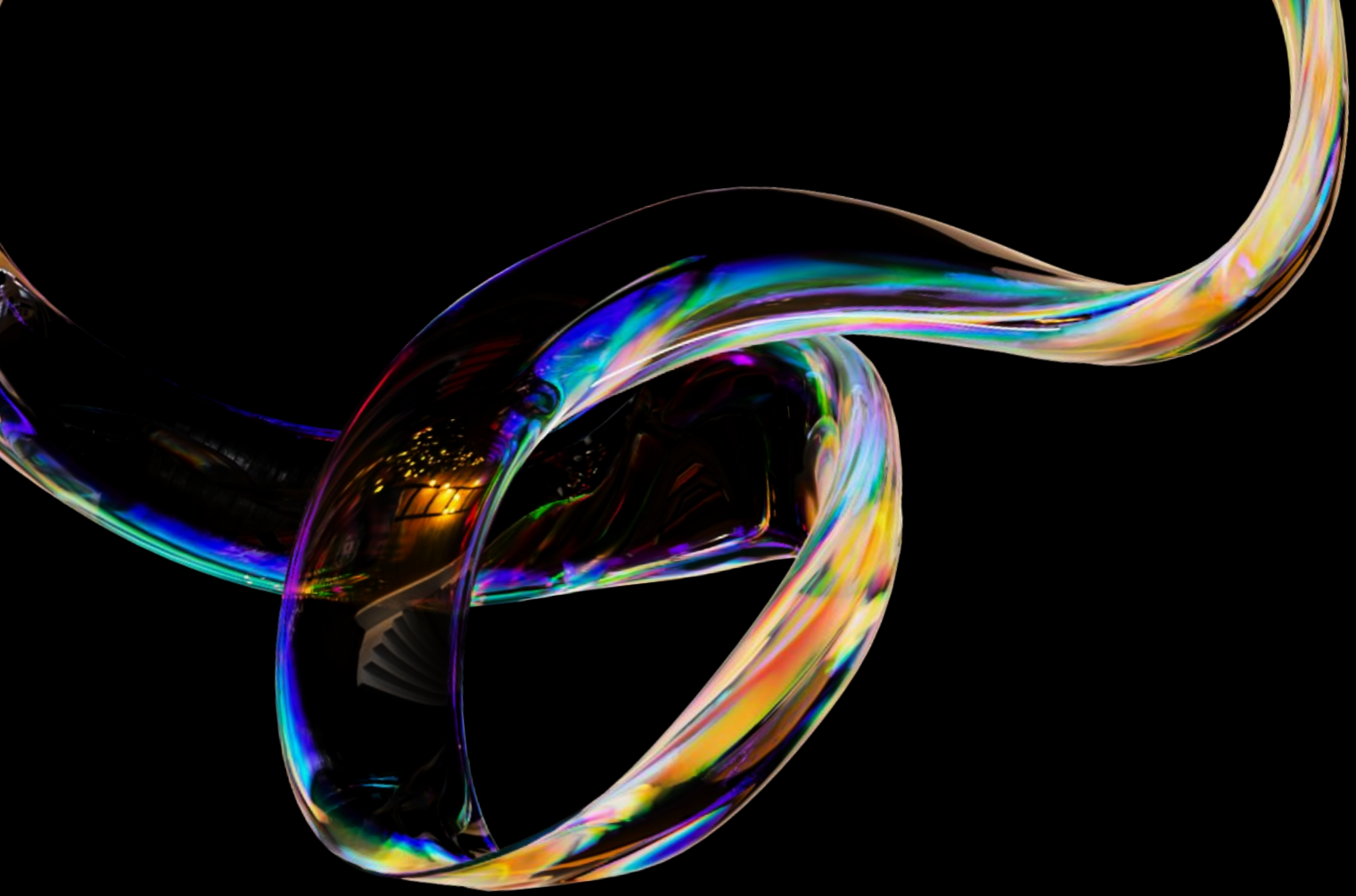
Enterprise Applications

Integrate with corporate directories and single sign-on (SSO) providers to manage access for employees.

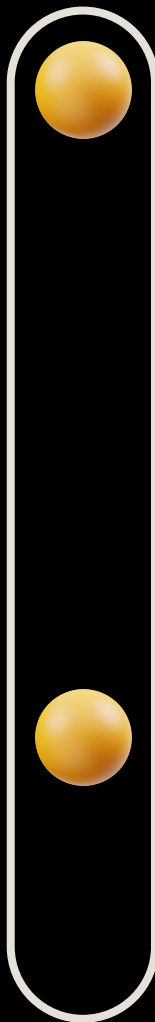


Social Media Integration

Allow users to sign in using their existing social media accounts, reducing the need for additional credentials.



USE CASES



Secure Access to AWS Resources

Provide secure and temporary access to AWS resources like S3, DynamoDB, and more based on user identity.

IoT Applications

Manage identities and synchronize data for IoT devices, ensuring secure access and data consistency.



05

Benefits

BENEFITS



Simplified User Management

Easily manage user authentication and access control without building and maintaining your own system.



Enhanced Security

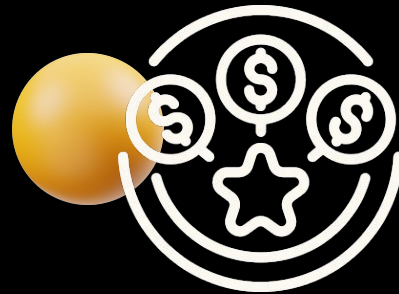
Protect user accounts with features like MFA, adaptive authentication, and compromised credentials protection.



Seamless Integration

Integrate with various identity providers and AWS services, enabling a unified authentication and access control solution.

BENEFITS



Scalability

Automatically scales to accommodate growing user bases and increasing application demands.



Cost-effective

Pay only for what you use, with a free tier available for small-scale applications and testing.

THANK YOU

Any Questions?

