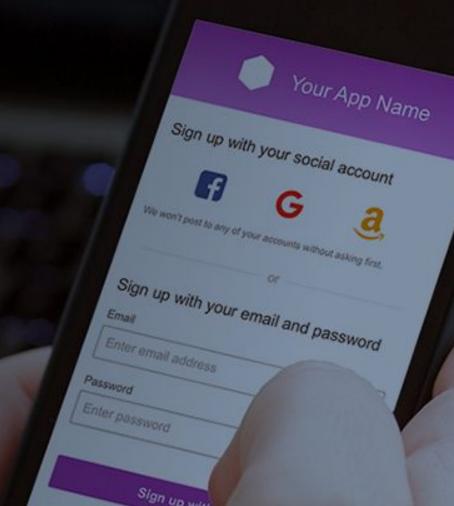


Amazon Cognito

Simple and Secure User Sign-Up, Sign-In, and Access Control



Team InCognito



Georgi Findulov



Yulia Tenincheva

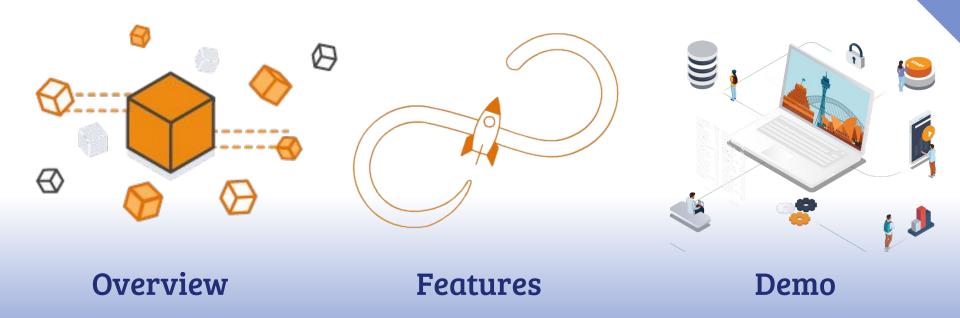








Agenda



Authentication

Trivial or tedious?





Authentication

- Database
- Identificators
- Passwords
- Hashes
- Stronger hashes
- Salt
- DB Encryption
- SRP?

- Passwordless?
- Sending emails
- MFA
- Adaptive authentication
- UI & UX
- Social media identity
- Single Sign-On
- Data Synchronization...

Amazon Cognito

A Silver bullet or too much complexity?



Getting Started



Amazon Cognito

Amazon Cognito offers user pools and identity pools. User pools are user directories that provide sign-up and sign-in options for your app users. Identity pools provide AWS credentials to grant your users access to other AWS services.

Manage User Pools

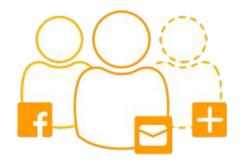
Manage Identity Pools





Grant your users access to AWS services

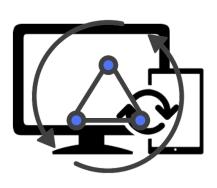
Services







Identity Pools



Sync

General settings

Users and groups

Attributes

Policies

MFA and verifications

Advanced security

Message customizations

Tags

Devices

App clients

Triggers

Analytics

App integration

App client settings

Domain name

UI customization

Resource servers

Federation

Identity providers

Attribute mapping

User Pools

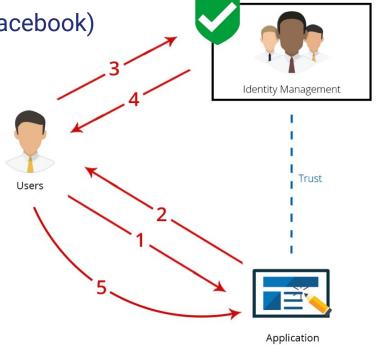
- Sign-up and sign-in services
- A built-in, customizable web UI
- Social sign-in
- User directory management and user profiles
- Security features
- Customized workflows and user migration through AWS Lambda triggers.

AWS Symbiosis

- Email Verification, MFA (SES, SNS)
- Analytics (Pinpoint)
- Data Synchronization (AppSync)
- Customized workflows and user migration (AWS Lambda triggers)
- Resource Servers (API Gateway)
- Permissions (IAM)

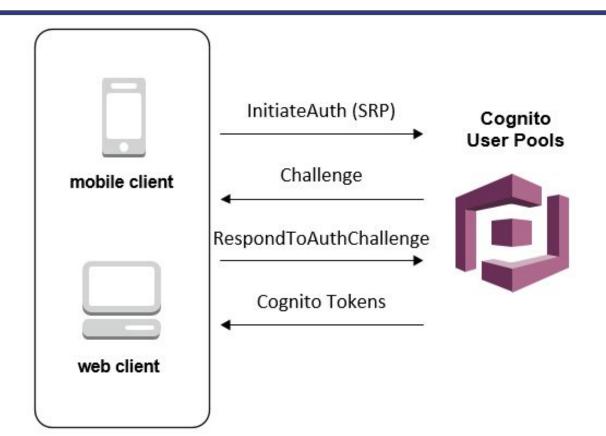
Federated Identities

- Public Providers (Amazon, Google, Facebook)
- Amazon Cognito User Pools
- Open ID Connect
- SAML Identity
- Developer Authenticated Identities

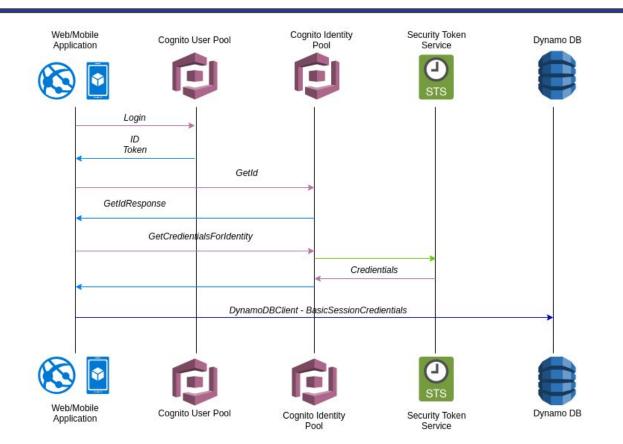




Simple Authentication



Federated Identities



Getting Started

'Cause no one loves reading documentation

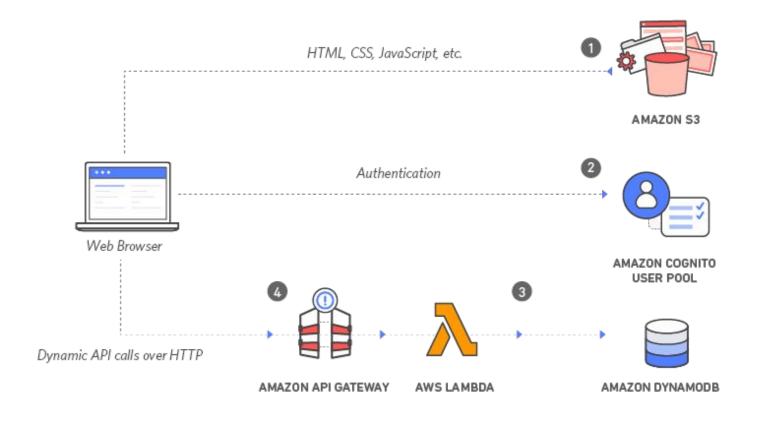




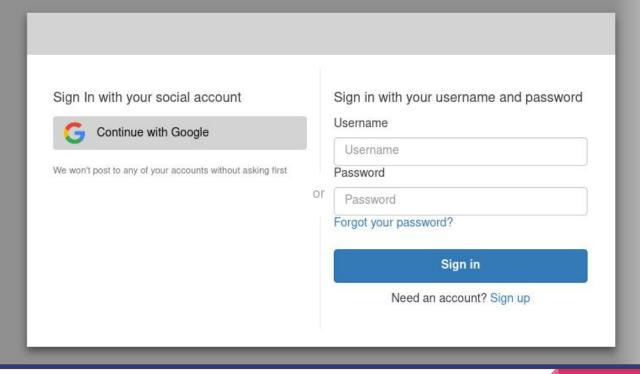
Demo 🔊



Demo - Serverless







Green Learning App - Demo

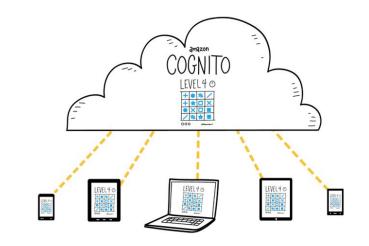
https://greenlearning.findulov.com

- Free Tier
- User Pools & Social identity providers
- SAML Federation
- Advanced Security Features
- MFA
- Cognito Sync





- AWS Decoumentation
- Wild Rydes Tutorial
- SRP Explained
- Cognito Identity as a service in .NET
- Understanding user and identity
 pools for serverless apps





Resources

That were useful to us

