AWS Amplify: Building Scalable Web and Mobile Apps
Presentation on AWS Amplify Features and Capabilities

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What is AWS Amplify?

- AWS Amplify is a platform for building and deploying full-stack web and mobile applications.
- Simplifies backend configuration and frontend integration.
- Supports frameworks like React, Vue, Angular, and React Native.
- Introduced by AWS in 2018 to streamline development. ▸ GeeksforGeeks

Key Features of AWS Amplify

- **Authentication**: Seamless user sign-up, sign-in, and MFA with Amazon Cognito.
- **APIs**: Supports REST and GraphQL APIs with AWS API Gateway and AppSync.
- **Data Storage**: Offline synchronization and real-time data with AWS AppSync.
- **Hosting**: Git-based CI/CD deployment with AWS S3 and CloudFront.
- **Analytics**: User behavior insights with Amazon Pinpoint.

Getting Started with Amplify CLI

- Install the CLI: `npm install -g @aws-amplify/cli`
- Configure: `amplify configure`
- Initialize a project: `amplify init`
- Add features like authentication or APIs: `amplify add auth`, `amplify add api`
- Deploy: `amplify push`

▸ AWS Amplify Docs

Amplify Hosting

- Fully managed CI/CD and hosting for SPAs, SSR apps, and static sites.
- Connects to Git repositories (GitHub, GitLab, Bitbucket, AWS CodeCommit).
- Automatic scaling and global CDN with Amazon CloudFront.
- Supports frameworks like Next.js, Nuxt, React, and Vue.
- Features: Custom domains, pull request previews, and E2E testing with Cypress.