

AWS APPSYNC & AMPLIFY FRAMEWORK

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MEETING AGENDA

- 1 Introduction
- 2 AWS Appsync
- 3 AWS Amplify
- 4 Use Case



INTRODUCTION



NOWADAYS ARCHITECTURE



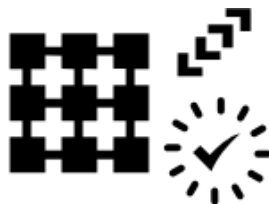
- FrontEnd
- BackEnd
- Database
- DevOps
 - CI(Continuos Integration)
 - Cd(Continuos Deployment)
- Infrastructure



SERVERLESS



Configurazione e
manutenzione di un
data center assente



Scalabilità del
servizio gestita



Pagamento in base
all'uso



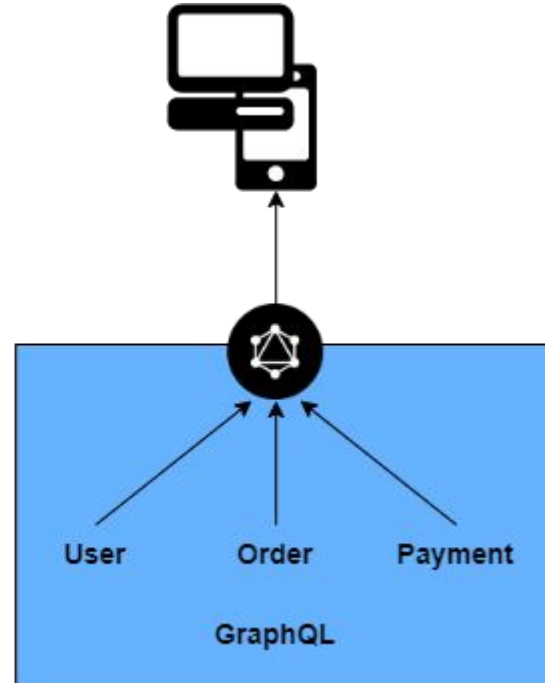
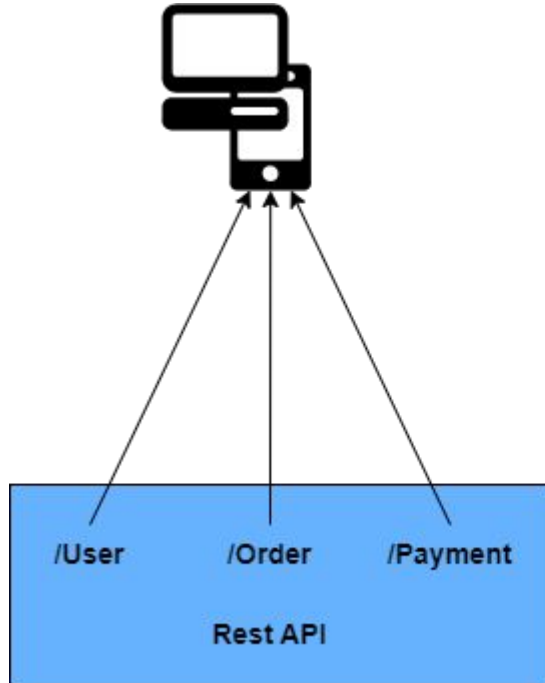
Tolleranza ai guasti
gestita



AWS APPSYNC



REST VS GRAPHQL



DATA QUERY LANGUAGE



Schema



Type

```
schema.graphql
1  type User {
2    id: ID!
3    username: String!
4    nome: String
5    cognome: String
6  }
```



Operation



Query

```
schema.graphql
8  query GetUser($id: ID!) {
9    getUser(id: $id) {
10     id
11     username
12     nome
13     cognome
14   }
15 }
```



Mutation

```
schema.graphql
17 mutation CreateUser {
18   createUser(input: {
19     username: "tmoretto"
20     nome: "Tommaso"
21     cognome: "Moretto"
22   }) {
23     id
24     username
25     nome
26     cognome
27   }
28 }
```



Subscription

```
schema.graphql
30 subscription UserCreated {
31   userCreated {
32     id
33     username
34     nome
35     cognome
36   }
37 }
```



AWS APPSYNC



Servizio Serverless &
FullyManaged



Datasource multipli



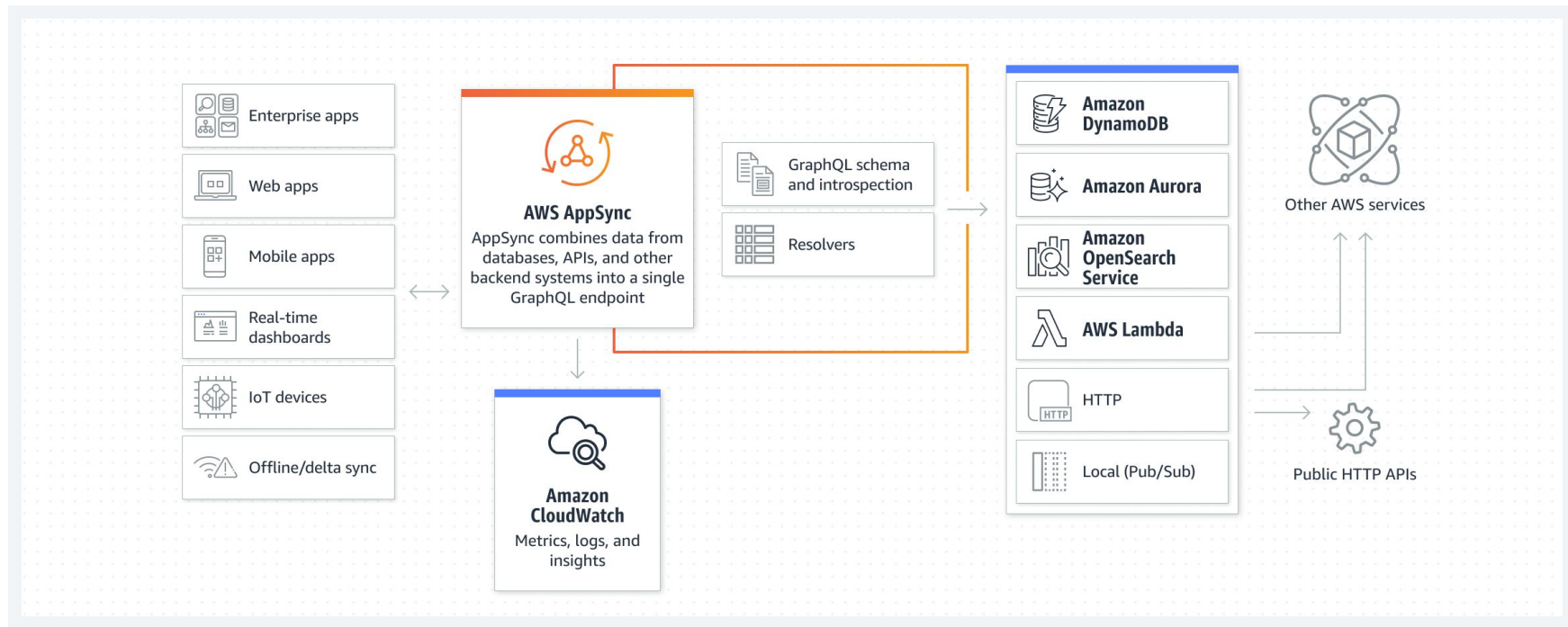
Facade Desing
Patter



Security by Desing
(IAM, Cognito, OICD,
ecc..)



AWS APPSYNC



AWS AMPLIFY



AWS AMPLIFY



Integration

Possibilità di collegare
una vasta gamma di
servizi AWS con poche
righe di codice



Toolchain

Facile creazione e
mantenimento di
Serverless BE



Componenti UI nativi

Out-Of-The-Box UI
component per
accelerare lo sviluppo



AWS AMPLIFY



- CLI
- Console - CI/CD & Hosting
- Prebuild UI components
- Client Library (Native & JS Framework)

Supporto Nativo Mobile App



Supporto Framework JS



AWS CLI

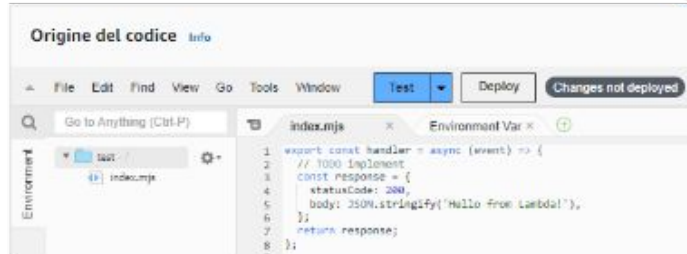


```
$ amplify add $1 (es: auth, api, ecc...)  
$ amplify push  
$ amplify configure auth  
$ amplify delete  
$ amplify codegen add
```



AWS API INTEGRATION

```
$ amplify add api  
// chose REST with Express backend
```



```
$ amplify push
```



AWS API Gateway



AWS Lambda



AWS GRAPHQL INTEGRATION

```
$ amplify add api  
// chose GraphQL
```

```
schema.graphql  
1  type User  
2  @model  
3  @auth(rules: [{allow: admin}])  
4  @searchable  
5  {  
6    id: ID!  
7    username: String!  
8    nome: String  
9    conome: String  
10 }
```

```
$ amplify push
```



AWS AppSync



AWS DynamoDB



AWS CONSOLE

- **Build, Deploy & Host Cloud Native web app**
- **Soluzione Fully-Managed per l'host di web app**
- **Gestisci il Deploy di una o più risorse di BackendClient**



GitHub



BitBucket



GitLab



CodeCommit

Connetti i tuoi repository



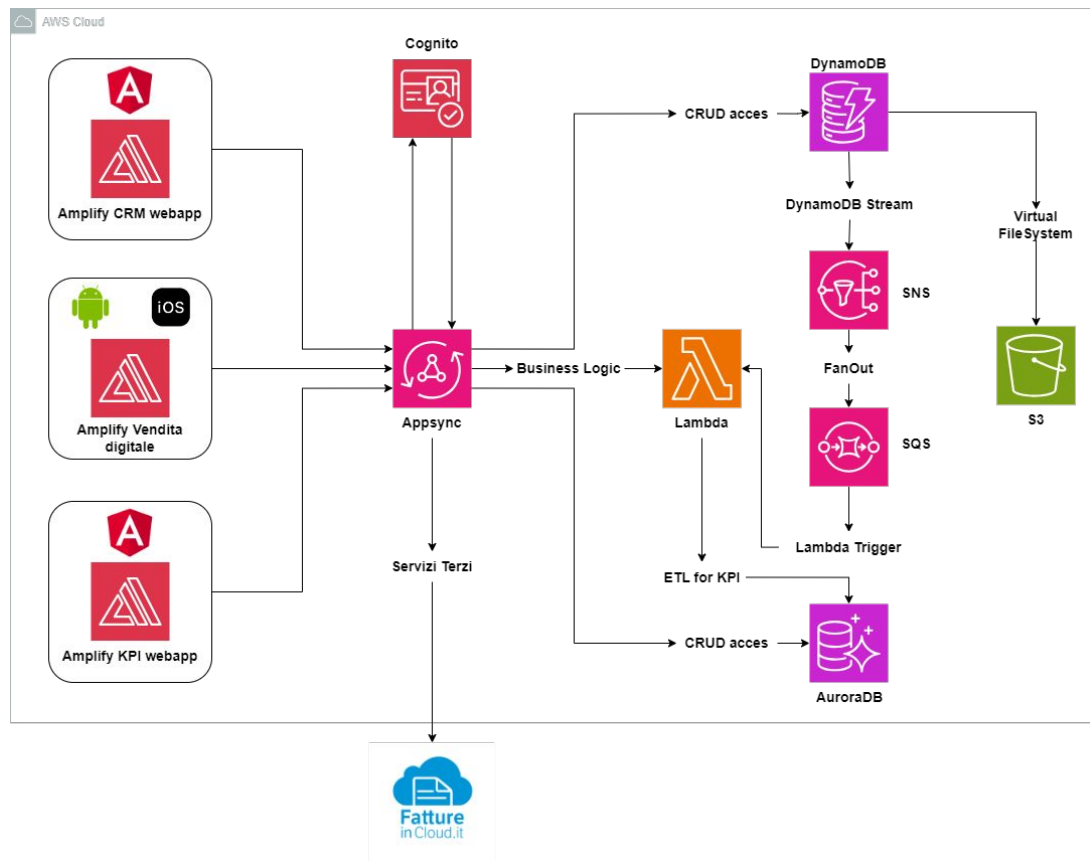
Configura Build & Deploy



USECASE



ARCHITECTURE



THANK YOU

www.reply.com

