

TURBO

press start





Nome: Bob

Professione: Junior Consultant

Azienda: SprintInc (20 dipendenti)

Esperienza: 2 anni embedded + 2 anni AWS





Attivita' svolte:

Sviluppo tool di devops interni

Qualche piccolo progetto per clienti

Ultimamente addirittura R&D interna!

Fino a quando un giorno......





SprintInc CEO:

- Bob! Il nostro DevOps! Abbiamo una interessante opportunita' per te!

SprintInc Manager:

- Bob e' scoppiata la bomba: MegaPawaPetrolCorp vuole (per ieri) per la sua megamigrazione:
 - 1. Gestione costi e fatturazione del Cloud 2. Riduzione costi su VM Cloud

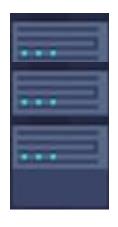




SprintInc Manager:

- Ovviamente dovrai gestire tutto tu perche per prendere questo progetto abbiamo proposto un costo di 50 rupie
- Inoltre non dimenticarti che domani sei a Firenze per inziare riunioni per altri 15 progetti
- Ah, e visto che sono le 18.30 prepara giusto 35345453 slide per stasera





Capitolo I:

approccio "serverful" su AWS



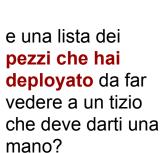


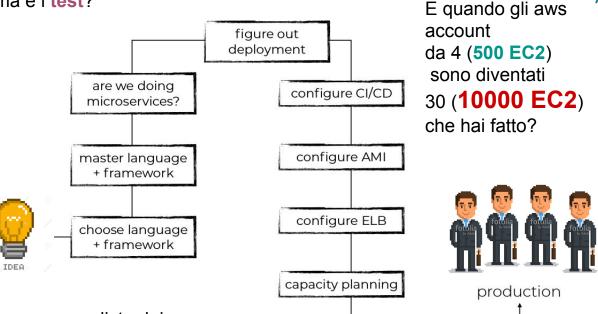


Ok ma...

e il logging?

e il monitoraggio?





configure autoscaling

over-provision for

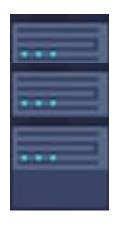
launch

One man startup









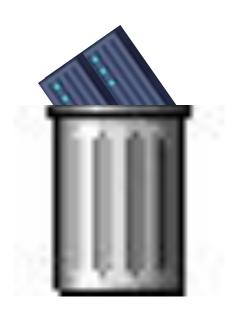
Upgrading your Linux distro does not provide value to users.

Managing your RabbitMQ servers does not provide value to users.

Configure your log rotation mechanism does not provide value to users.

Managing the Security Updates for your fleet does not provide value to users



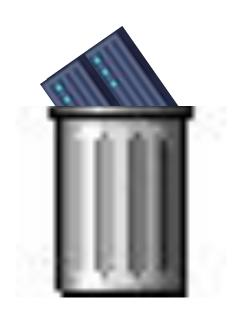


Shipping products provides value to users.

focusing your efforts on what provides value to users.

the serverless maxim focus on business logic, not servers.



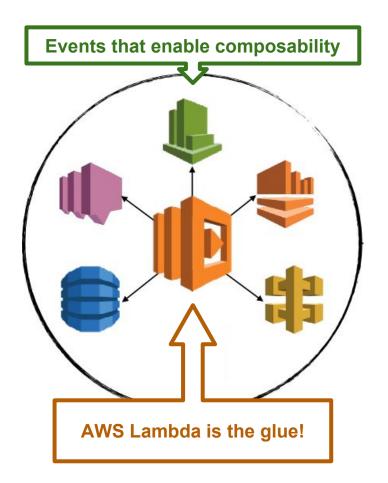


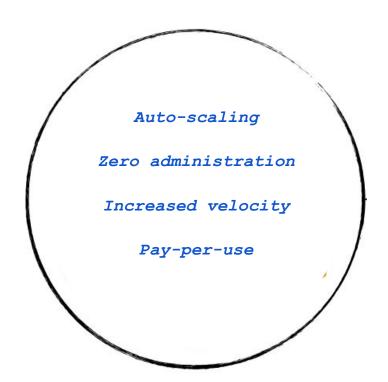
Capitolo II:

approccio "serverless" su AWS

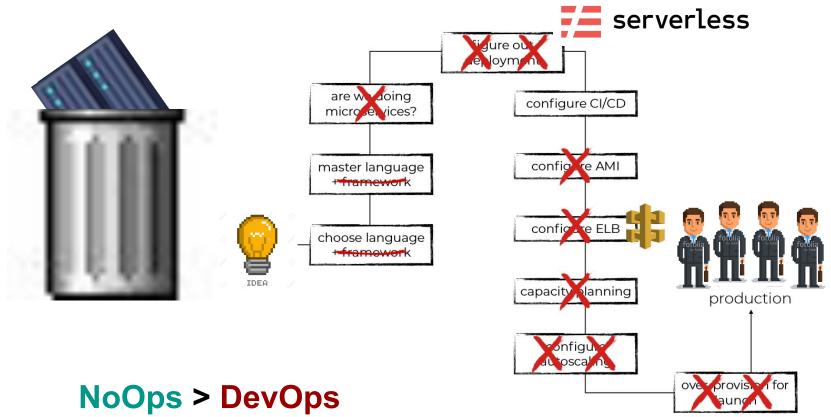
What makes an application serverless?











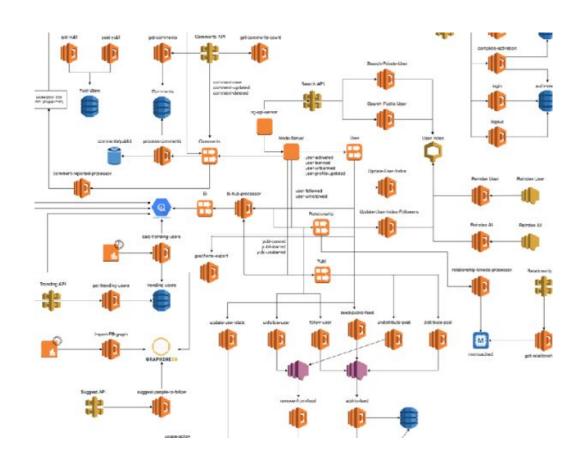
```
service: serverless-rest-api-with-dynamodb
frameworkVersion: ">=1.1.0 <2.0.0"
provider:
 runtime: nodejs6.10
 environment:
   DYNAMODB_TABLE: ${self:service}-${opt:stage, self:provider.stage}
  iamRoleStatements:
   - Effect: Allow
     Action:
        - dynamodb:Query
        - dynamodb:Scan
        - dynamodb:GetItem
        - dynamodb:PutItem
        - dynamodb:UpdateItem
        - dynamodb:DeleteItem
      Resource: "arn:aws:dynamodb:${opt:region, self:provider.region}:*:table/${self:provider.environment.DYNAMODB_TABLE}"
```

```
resources:
  Resources:
    TodosDynamoDbTable:
     Type: 'AWS::DynamoDB::Table'
      DeletionPolicy: Retain
      Properties:
       AttributeDefinitions:
           AttributeName: id
           AttributeType: S
       KeySchema:
           AttributeName: id
           KeyType: HASH
       ProvisionedThroughput:
         ReadCapacityUnits: 1
         WriteCapacityUnits: 1
       TableName: ${self:provider.environment.DYNAMODB_TABLE}
```



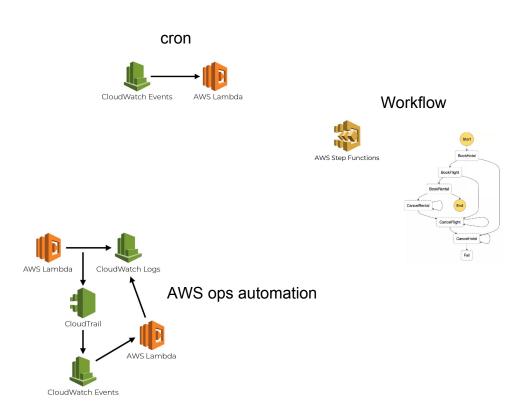
```
functions:
  create:
    handler: todos/create.create
    events:
     - http:
          path: todos
          method: post
         cors: true
  list:
   handler: todos/list.list
    events:
     - http:
          path: todos
          method: get
          cors: true
  get:
   handler: todos/get.get
    events:
     - http:
          path: todos/{id}
          method: get
          cors: true
  update:
    handler: todos/update.update
    events:
     - http:
          path: todos/{id}
          method: put
         cors: true
  delete:
   handler: todos/delete.delete
    events:
      - http:
          path: todos/{id}
          method: delete
         cors: true
```



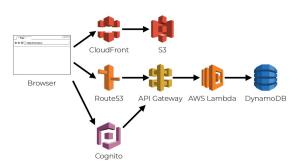




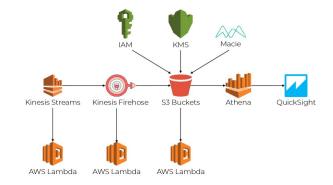
Use cases



Web App



Data Analysis















AWS Serverless Framework Python3.6





Grazie!