

**Serverless with Docker** 

## Nirmal Mehta

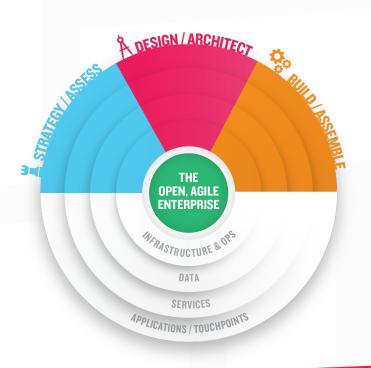
**Chief Technologist** 

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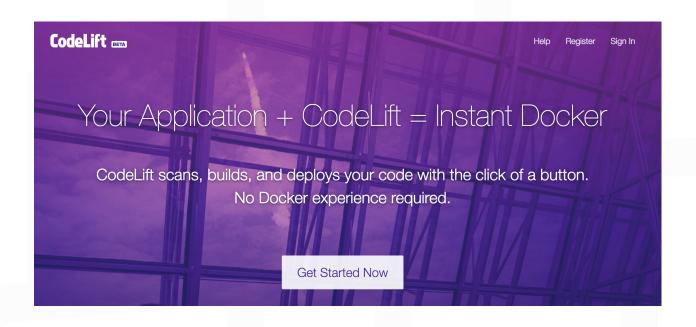
## Booz | Allen | Hamilton 100 YEARS

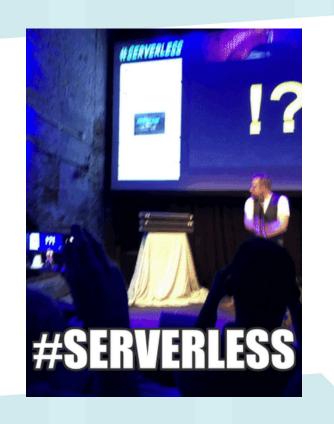
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## CodeLift.io







"Serverless was first used to describe applications that significantly or fully depend on 3rd party applications / services ('in the cloud') to manage server-side logic and state.

Backend-as-a-Service "

"Applications where some amount of server-side logic is still written by the application developer but unlike traditional architectures is run in stateless compute containers that are event-triggered, ephemeral and fully managed by a 3rd party.

Functions-as-a-service"

#### — Martin Fowler

http://martinfowler.com/articles/serverless.html

## **State of Serverless**

It's early days!





#### Serverless.com (Oct 2015)

#### It is,

- Open Source web framework written in node.js, for building complex AWS Lambda applications
- Supports python and node.js functions

#### But,

Only supports AWS Lambda, AWS API Gateway

#### **Bottom Line**

Basically makes using Lambda more structured and introduces microservices design

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### **IronWorker**

#### Iron.io

#### It is,

- Platform that delivers infrastructure agnostic workload management with three components: worker, event queue and kv Data Cache
- Supports any docker image as a worker (basically supports any language as the worker function)

#### But,

- Proprietary platform, risk of lock-in
- **Bottom Line**
- Get a robust lambda like service on any cloud and infrastructure platform

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## **Dockaless**

#### iopipe.com

#### It is,

- Open source toolkit to build and orchestrate event driven serverless applications
- Supports AWS Lambda, Docker, Google Cloud Functions

#### But,

Still pretty new (alpha)

#### **Bottom Line**

• Give it a go!

### **Demo – Dockaless**

```
var Dockaless = require("dockaless")
var dals = Dockaless({
    protocol: 'https',
    host: '127.0.0.1',
    port: process.env.DOCKER PORT || 2375,
    ca: fs.readFileSync('ca.pem'),
    cert: fs.readFileSync('cert.pem'),
    key: fs.readFileSync('key.pem')
})
export.handler = dals.make lambda("ubuntu", [ "whoami"
                                                                 dockercon
```

# Wait can't we just use Docker for serverless like this morning's Demo?

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