DAVID NOVICKI

LEARNING SERVERLESS WORKSHOP

WHO AM I?

- VP of Engineering at Dermveda
- Entrepreneur
- Sacramento Startup Developers
- Interests: Anything Javascript && Deep Learning

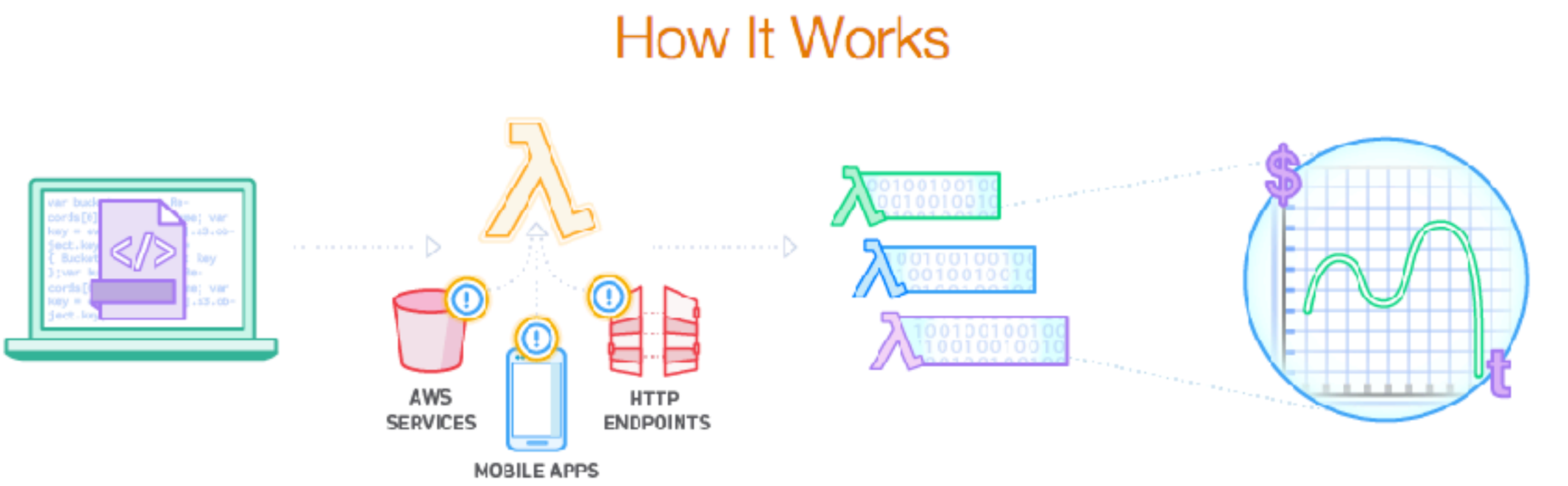
DERMVEDA
SKIN • SCIENCE • WELLNESS

OBJECTIVES

- Learn a ‘code first’ approach
- Gain an understanding of how Serverless works
- Deploy a serverless application
- Iterate application to build and save to a DynamoDB

WHAT IS SERVERLESS?!

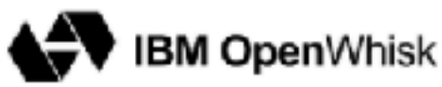
JUST FUNCTIONS



WHAT CLOUD PROVIDERS SUPPORT SERVERLESS?

AWS Docs

Azure Functions Docs



OpenWhisk Docs

Cloud Functions Docs

Kubeless Docs

Spotinst Docs

Auth0 Webtasks Docs

WHY USE SERVERLESS?!

Serverless applications provide four main benefits:

No server management

There is no need to provision or maintain any servers. There is no software or runtime to install, maintain, or administer.

Flexible scaling

Your application can be scaled automatically or by adjusting its capacity through toggling the units of consumption (e.g. throughput, memory) rather than units of individual servers.

High availability

Serverless applications have built-in availability and fault tolerance. You don't need to architect for these capabilities since the services running the application provide them by default.

No idle capacity

You don't have to pay for idle capacity. There is no need to pre- or over-provision capacity for things like compute and storage. For example, there is no charge when your code is not running.

SERVERLESS

```
# Install serverless globally
$ npm install serverless -g

# Login to your Serverless account
$ serverless login

# Create a serverless function
$ serverless create --template hello-world

# Deploy to cloud provider
$ serverless deploy

# Function deployed! Trigger with live url
$ http://xyz.amazonaws.com/hello-world
```

AN ORGANIZATIONAL & DEPLOYMENT TOOL

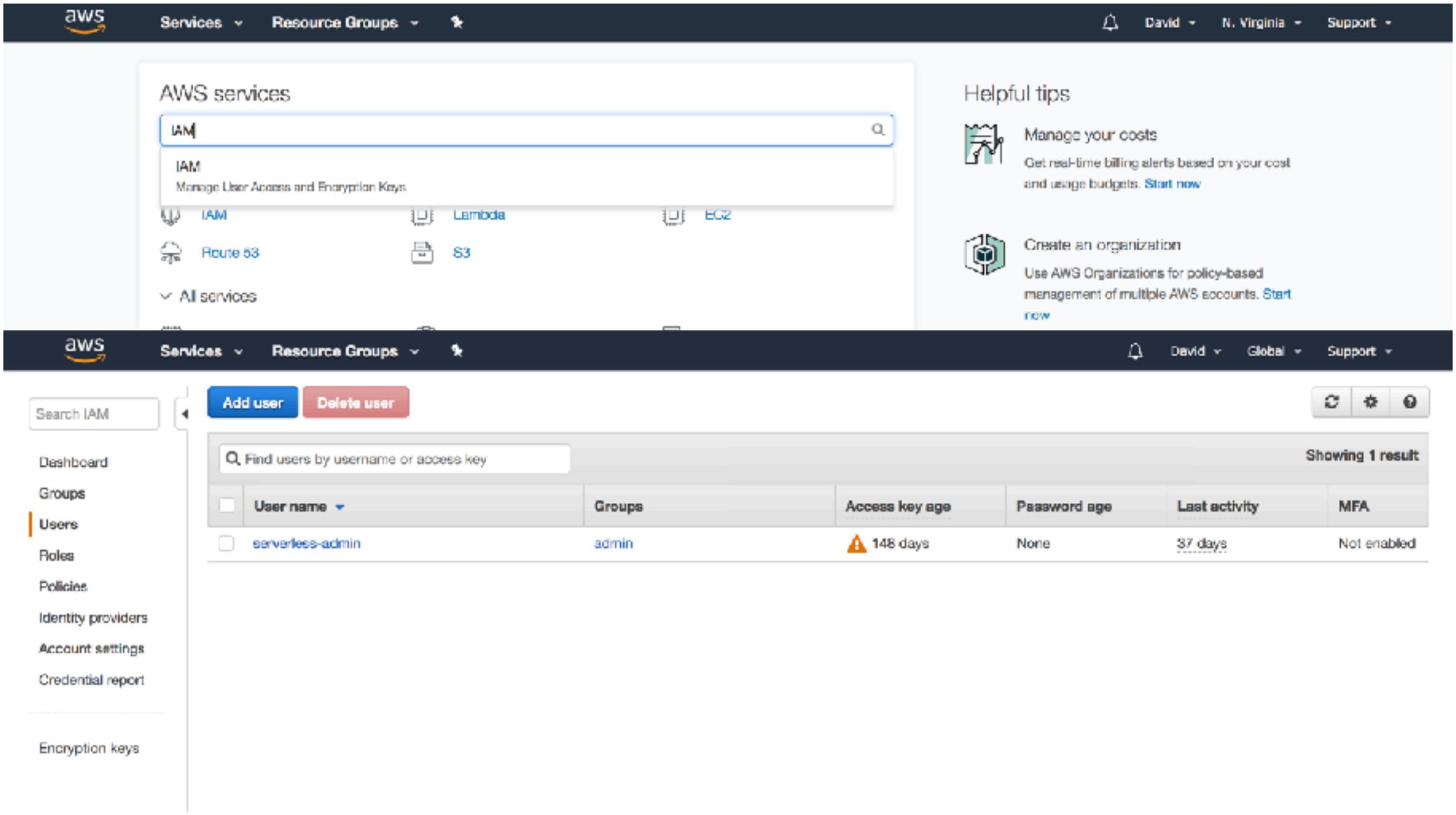
serverless.yml

```yaml
service: serverless-example

provider:
  name: aws
  runtime: nodejs6.10
  stage: beta
  region: us-west-2

functions:
  hello:
    handler: handler.hello
    description: optional description for your Lambda
```

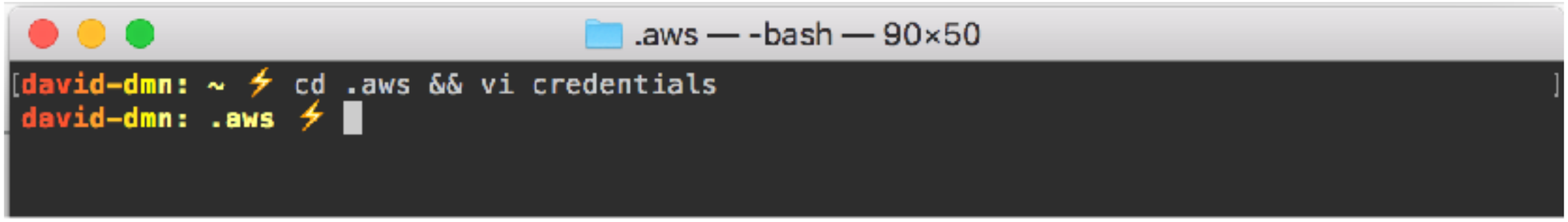
handler.js

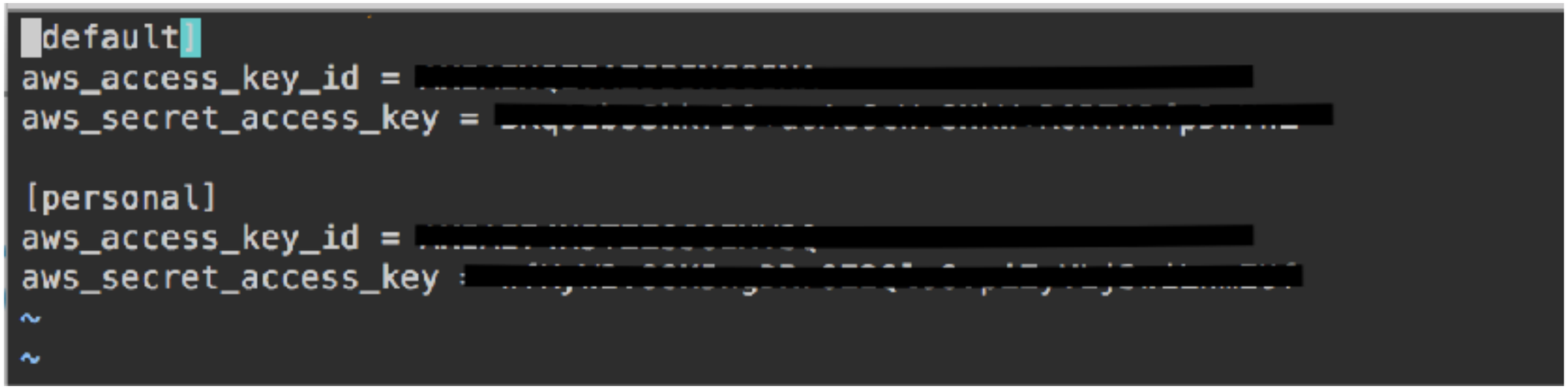
```javascript

module.exports.hello = (event, context, callback) => {
    //implement code here
}

```

CREATE AWS IAM KEY



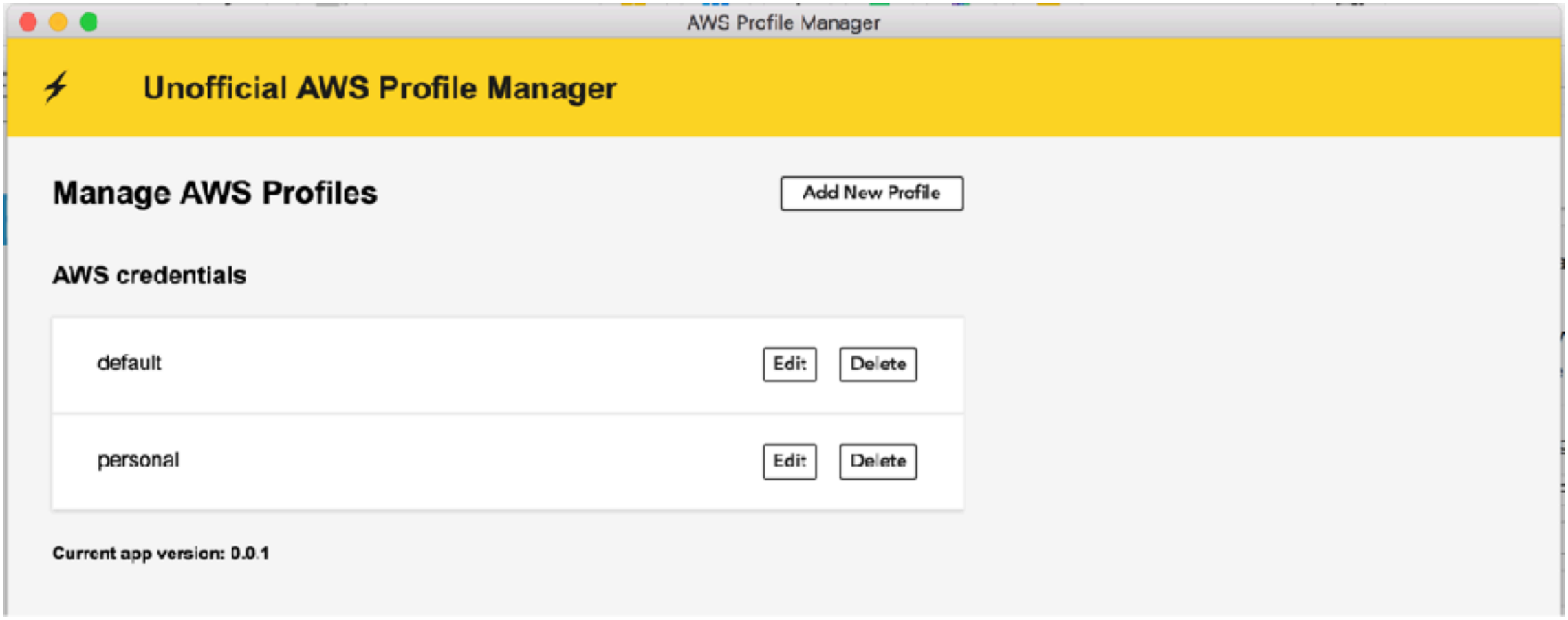
SET UP AWS CREDENTIALS



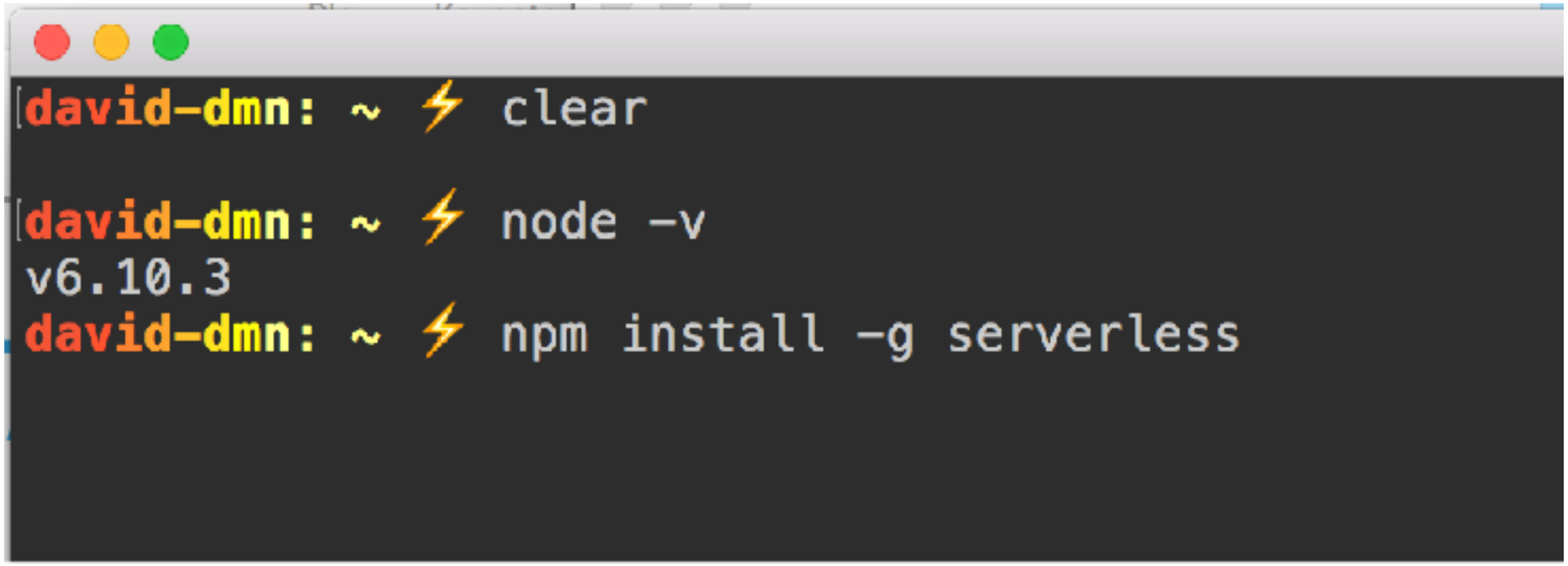


AWS PROFILE MANAGER (UNOFFICIAL)

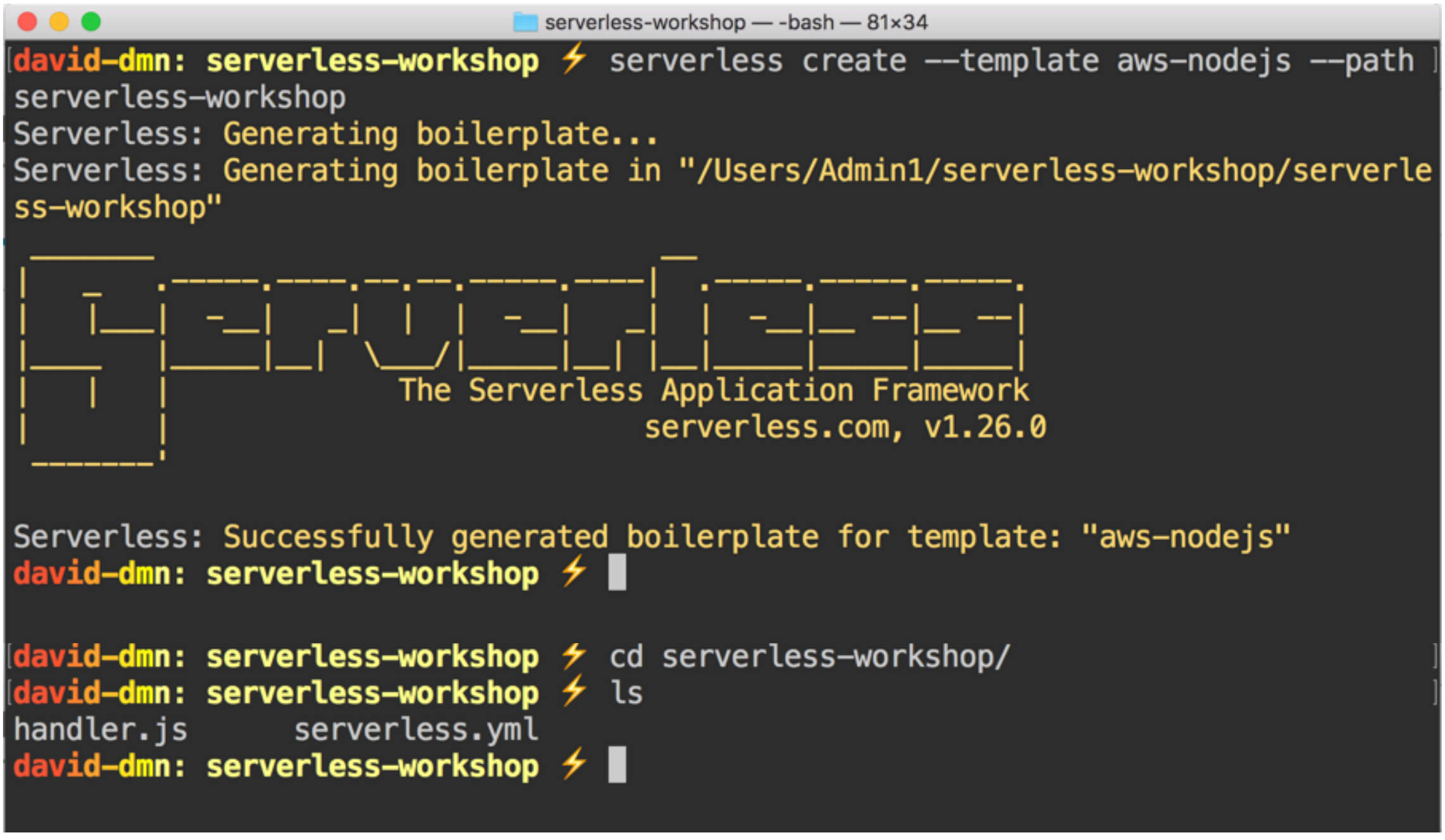
HTTPS://GITHUB.COM/DAVIDWELLS/AWS-PROFILE-MANAGER



INSTALL SERVERLESS



CREATE SERVERLESS PROJECT



THE END

REPO: HTTPS://GITHUB.COM/SUPERCYCLE91/SERVERLESS-WORKSHOP

TWITTER: @NOVICKI_DAVID

WE ARE HIRING!

David Novicki