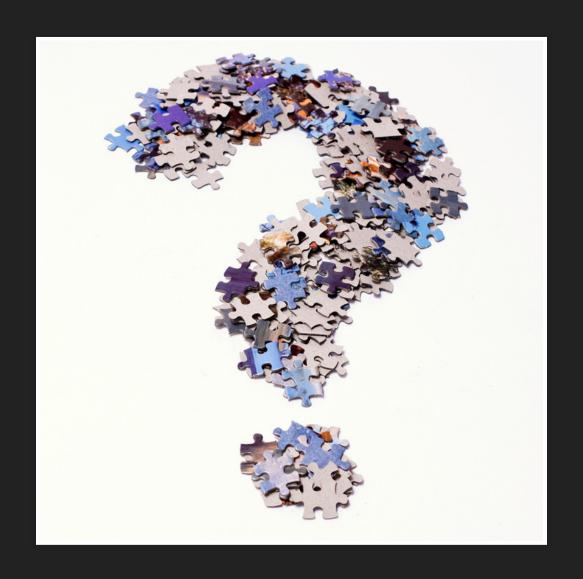
### DNS-BASED SERVICE DISCOVERY

Matt Palmer

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#### **QUESTIONS?**



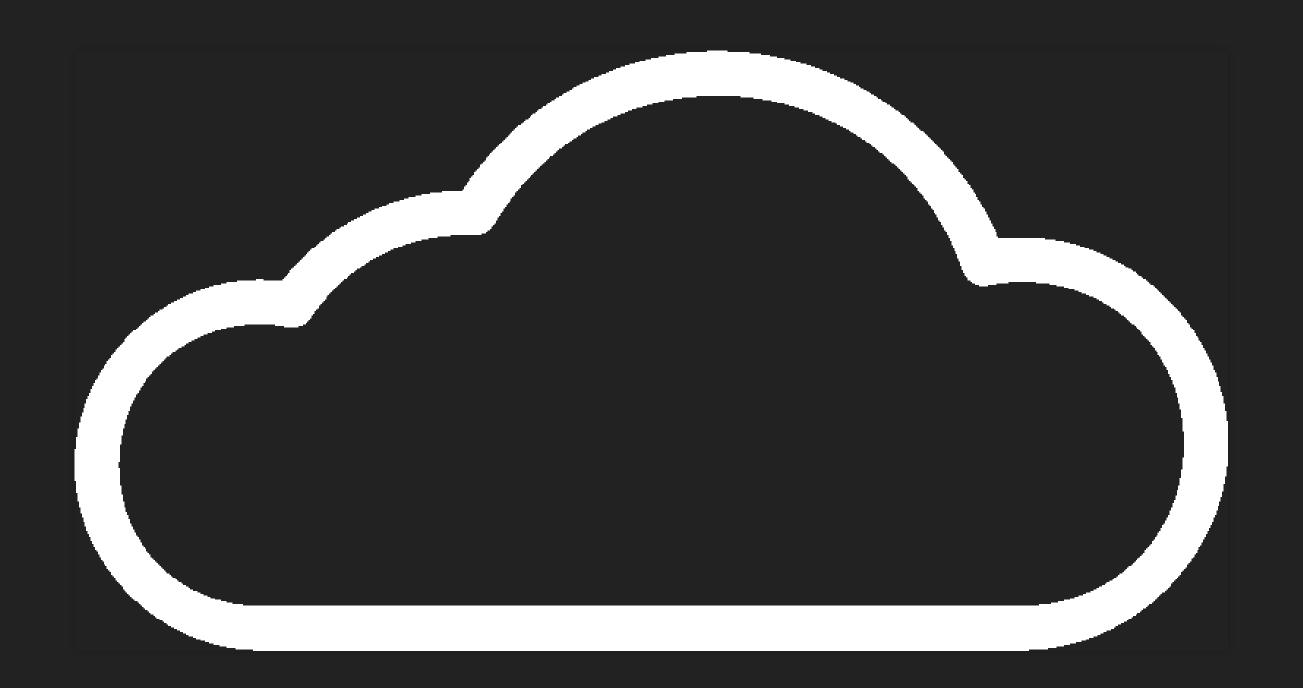
#### SERVICE DISCOVERY

- Let things find other things
- Find out how to talk to other things

#### psql -h 192.0.2.42

### vi /etc/hosts psql -h dbserver

### vi zones/example.com psql -h dbserver



#### My Crow My Mike Rowe Crow My Micro Mike Rowe Crow







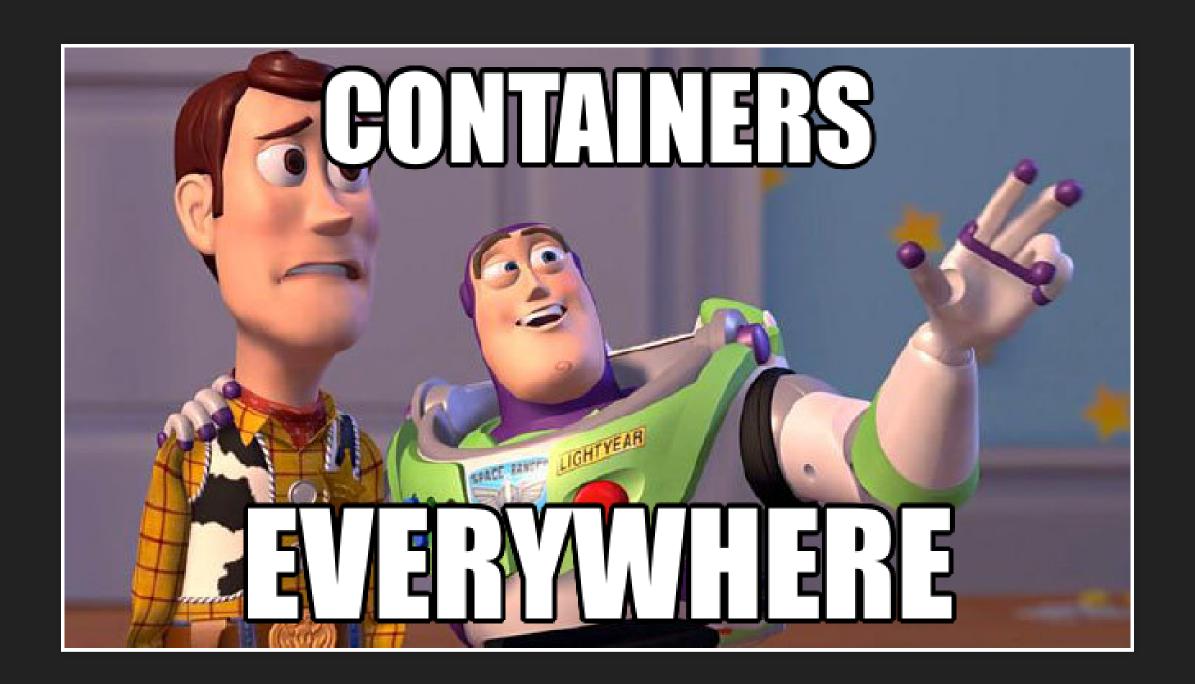
#### My Micro Mike Rowe Crow's Microservice



#### My Micro Mike Rowe Crow's Mike Rowe Microservice







#### OPTIONS?

- consul
- etcd
- zookeeper
- doozer
- eureka
- synapse
- ...

#### SOOOO MANY OPTIONS

#### HERE'S ANOTHER ONE...

# RFC6763: DNS-BASED SERVICE DISCOVERY

#### SERVICE INSTANCES

foo. app. tcp SRV 1 1 31337 app-0146de

foo.\_app.\_tcp SRV 1 1 31337 app-0146de

foo.\_app.\_tcp SRV 1 1 31337 app-0146de

```
foo._app._tcp SRV 1 1 31337 app-0146de
foo._app._tcp SRV 1 1 31337 app-b34c68
foo._app._tcp SRV 1 1 31337 app-557fc3
foo._app._tcp SRV 1 1 31337 app-ab46f2
```

```
foo._app._tcp SRV 1 1 31337 app-0146de
foo._app._tcp SRV 1 1 31337 app-b34c68
foo._app._tcp SRV 1 3 31337 app-557fc3
foo._app._tcp SRV 1 1 31337 app-ab46f2
```

```
foo._app._tcp SRV 1 1 5432 db-876cfe
foo._app._tcp SRV 2 1 5432 db-a2cfe6
```

#### SERVICE ENUMERATION

```
_app._tcp PTR foo._app._tcp
_app._tcp PTR bar._app._tcp
```

#### METADATA

```
foo._app._tcp TXT \
    "path=/something/funny" \
    "baz=wombat"
```

# WHY ISN'T EVERYONE DOING IT?

### "IT'S JUST SOME DESKTOP THING"

#### "IT'S ALWAYS DNS!"



### "NOBODY SUPPORTS SRV RECORDS!"

#### WHY YOU SHOULD USE DNS-SD

### YOU'RE ALREADY USING DNS

## ALL STANDARD COMPONIENTS

# MORE COMPLETE SOLUTION THAN MOST

#### DNS-SD: IT'S AWESOME!

