DNS-BASED SERVICE DISCOVERY

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QUESTIONS?
SERVICE DISCOVERY

- Let things find other things
- Find out *how* to talk to other things
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 Microservice
CONTAINERS
EVERYWHERE
OPTIONS?

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

SOOOOO 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 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
foo._app._tcp TXT
  "path=/something/funny" \n  "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 COMPONENTS
MORE COMPLETE SOLUTION THAN MOST
DNS-SD: IT'S AWESOME!