Extending Cloud Foundry with new Services

#cloudcredo
#cloudfoundry

4832

Roadmap

- What is Cloud Foundry?

- Why would I want one?

- Your PaaS should be hackable

- Extending with new Services

- The Future

4832

Why Cloud Foundry

- Power to developers

- Powerful simple clients

vmc help...

```
$
```

CloudCredo

vmc push...

4832

```
$ 
```

4832

Gradle example...

bash | chris@ubuntu: ~...ts/devbox/config

$

4832

vmc instances...

$

4832
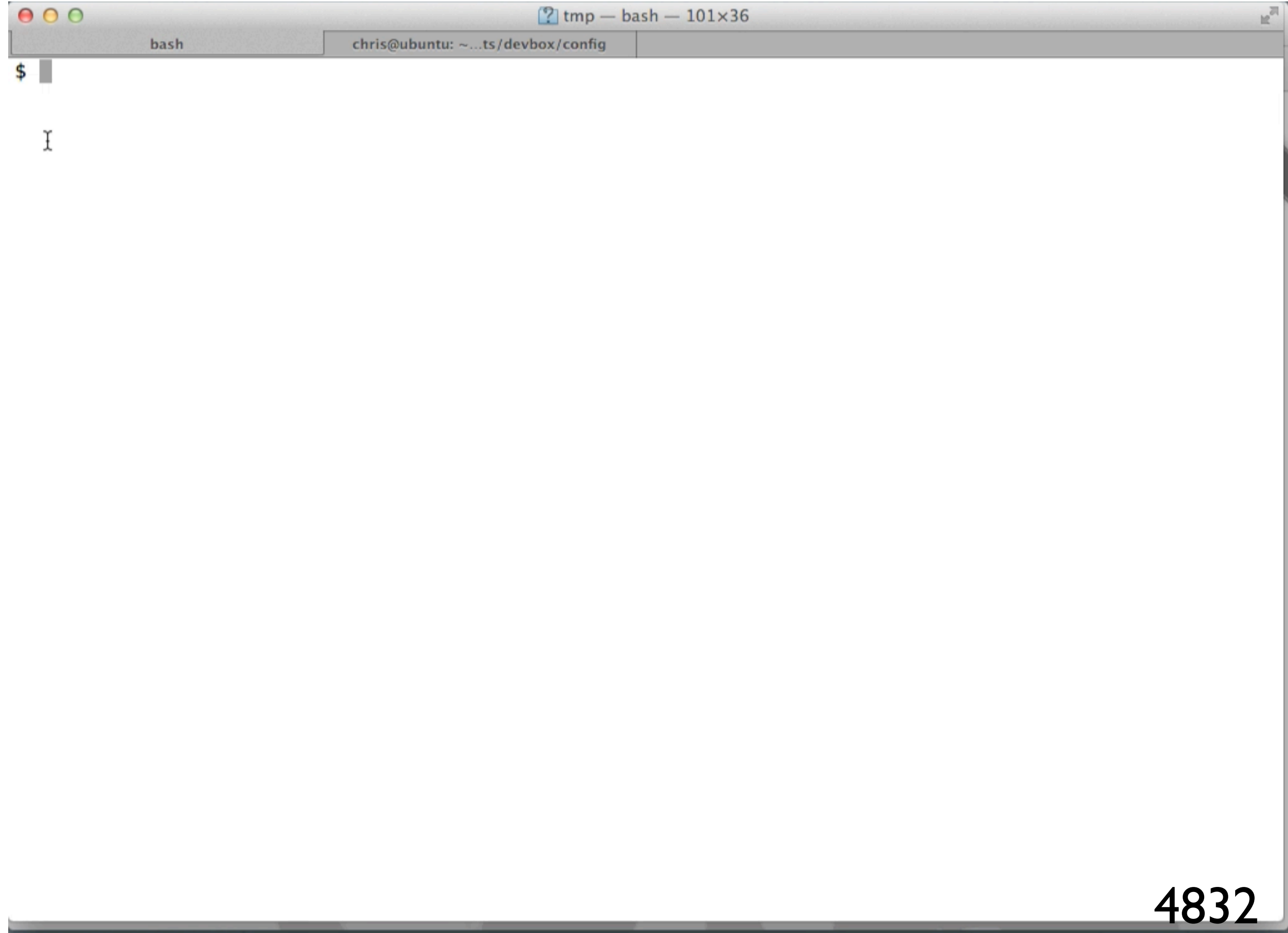
Features of a PaaS

- Your PaaS should be hackable

4832

Services

4832

```
$ vmc apps

+--------------+-----+----------+----------------+------------+
| Application  | #   | Health   | URLS           | Services   |
+--------------+-----+----------+----------------+------------+
| qcon        | 1   | N/A      | qcon.vcap.me   |            |
+--------------+-----+----------+----------------+------------+

$ v
```
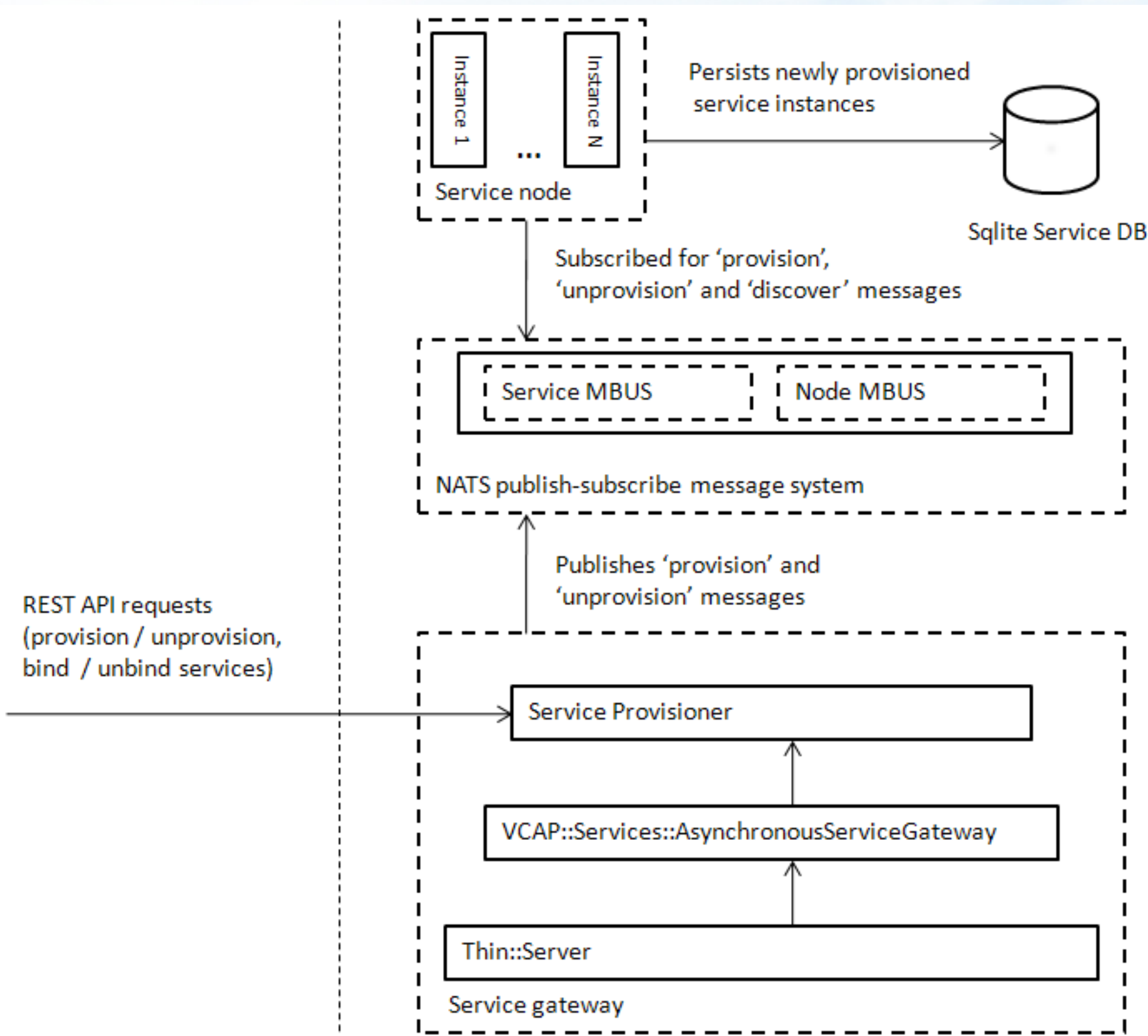
4832

Service Extension options...

- Static service: crufty but straightforward

4832

Service Extension options...

- Service broker: a more elegant facade over existing services

Service Extension options...

- First-class service support: super awesome, cleaner and more maintainable

4832

Persists newly provisioned service instances

Instance 1 ... Instance N

Service node

Sqlite Service DB

Subscribed for 'provision', 'unprovision' and 'discover' messages

Service MBUS   Node MBUS

NATS publish-subscribe message system

Publishes 'provision' and 'unprovision' messages

REST API requests (provision / unprovision, bind / unbind services)

Service Provisioner

VCAP::Services::AsynchronousServiceGateway

Thin::Server

Service gateway

4832

Service Node API

- provision/unprovision

- bind/unbind

- enable_instance/disable_instance

- announcement

4832

Testing

- Unit

- Integration

- Yeti - End to end testing

- Stac2 - Load testing

4832

Deploying Services

- Bosh

- Chef

4832

The Future

- Build packs

4832

Recap

- What is Cloud Foundry?

- Why would I want one?

- Your PaaS should be hackable

- Extending with new Services

4832

Questions

4832

CloudCredo

@acrmp
@christhedley
@cloudcredo

4832

References

https://github.com/cloudfoundry
https://github.com/CloudCredo/vcap_cassandra
www.cloudcredo.com

4832