Let's talk about the developer experience

Ruben Vermeersch @rubenv https://rocketeer.be

More complexity!

Operations: good old days

yum install rsync

Order in the chaos!



CI/CD





Developers: Monolithic LAMP

Linux

Apache

Most of our cool scripting languages start with P

PostgreSQL

Many services and dependencies

Micro-services

NoSQL databases

Cache tiers (Redis)

Worker queues

Messaging systems

DevOps

DevOps

DevOps

Vastly more complex environment

Development env that somewhat resembles production?

```
endai:~ $ kubectl
kubectl controls the Kubernetes cluster manager.
Find more information at https://github.com/kubernetes/kubernetes.
Basic Commands (Beginner):
                Create a resource from a file or from stdin.
                Take a replication controller, service, deployment or pod and expose it as a new Kubernetes Service
 expose
                Run a particular image on the cluster
                Set specific features on objects
 run-container Run a particular image on the cluster. This command is deprecated, use "run" instead
Basic Commands (Intermediate):
                Display one or many resources
 explain
                Documentation of resources
                Edit a resource on the server
                Delete resources by filenames, stdin, resources and names, or by resources and label selector
 delete
Deploy Commands:
 rollout
                Manage the rollout of a resource
 rolling-update Perform a rolling update of the given ReplicationController
                Set a new size for a Deployment, ReplicaSet, Replication Controller, or Job
 scale
 autoscale
                Auto-scale a Deployment, ReplicaSet, or ReplicationController
 luster Management Commands:
 certificate Modify certificate resources.
 cluster-info Display cluster info
                Display Resource (CPU/Memory/Storage) usage.
                Mark node as unschedulable
 cordon
 uncordon
                Mark node as schedulable
 drain
                Drain node in preparation for maintenance
                Update the taints on one or more nodes
 roubleshooting and Debugging Commands:
 describe
                Show details of a specific resource or group of resources
                Print the logs for a container in a pod
 attach
                Attach to a running container
                Execute a command in a container
 port-forward
               Forward one or more local ports to a pod
                Run a proxy to the Kubernetes API server
                Copy files and directories to and from containers.
                Inspect authorization
Advanced Commands:
                Apply a configuration to a resource by filename or stdin
 apply
```

Update field(s) of a resource using strategic merge patch

Output shell completion code for the specified shell (bash or zsh)

Print the supported API versions on the server, in the form of "group/version"

Convert config files between different API versions

version Print the client and server version information

Use "kubectl <command> --help" for more information about a given command.

Use "kubectl options" for a list of global command-line options (applies to all commands).

Replace a resource by filename or stdin

Update the labels on a resource Update the annotations on a resource

Modify kubeconfig files

Runs a command-line plugin

Help about any command

replace convert

annotate completion

config

plugin

sendai:~ \$ sendai#10 0:bash*

help

Other Commands:

api-versions

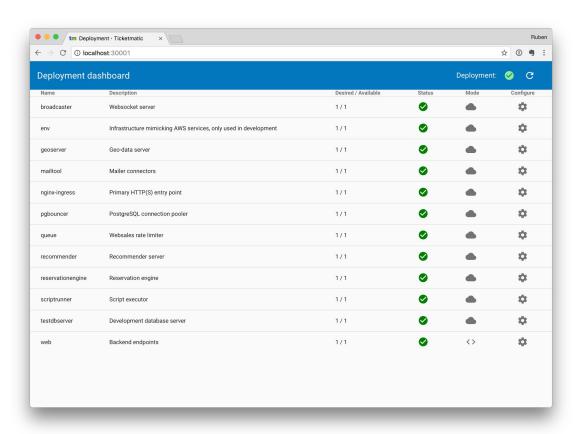
ettings Commands: label U Terminal

Adoption?

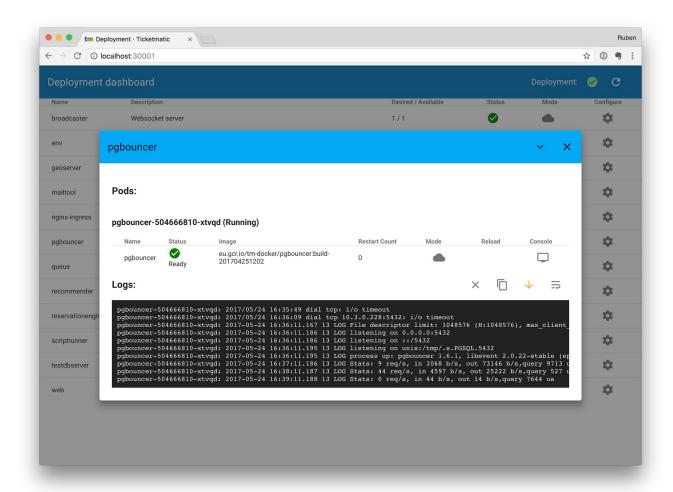
Everybody needs to be on board

Streamline the developer experience!

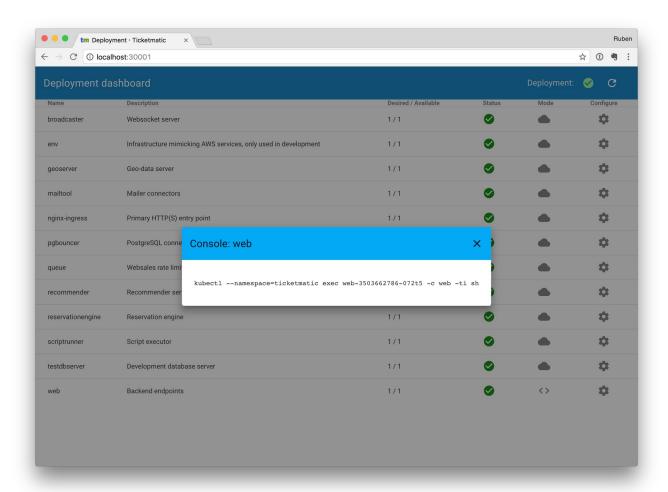
devmatic



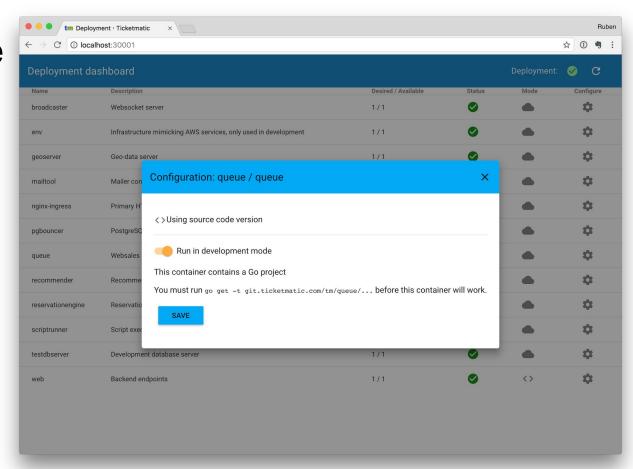
Logs



Shell



Source mode



Talk at CoreOS conference (San Francisco, 2017)



https://rocketeer.be/articles/coreos-fest-2017/

Let's talk!

Ruben Vermeersch @rubenv https://rocketeer.be