

APPLICATION
MIGRATION
AND
MODERNIZATION
ON APPUIO
SWISS CONTAINER PLATFORM
TECHLAB



### Containers and OpenShift Recap

# Nothing new!



# ...except



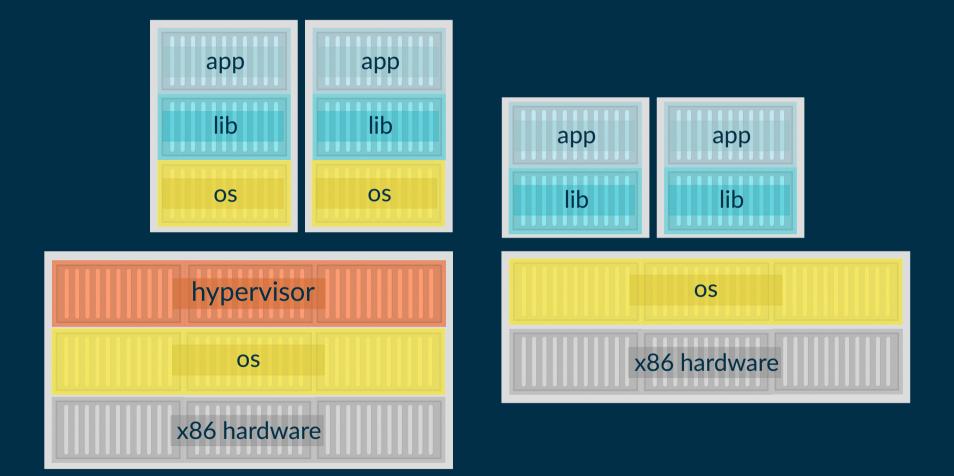
Tools

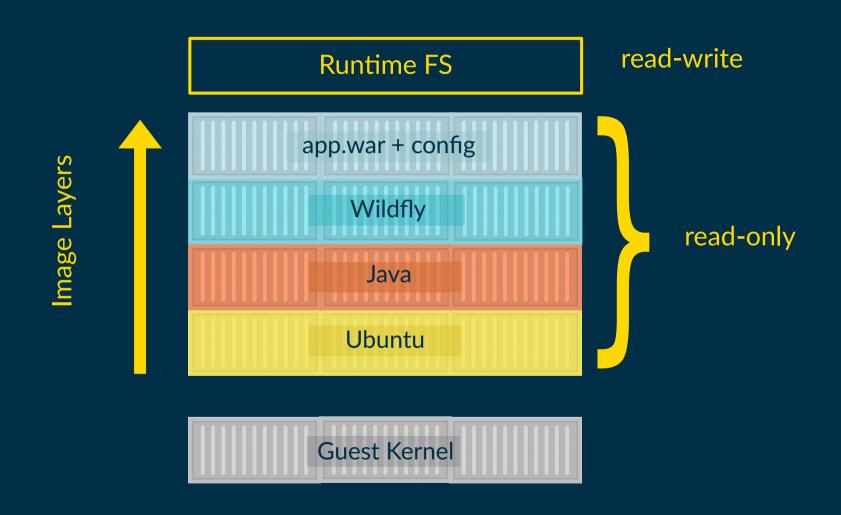


Ökosystem



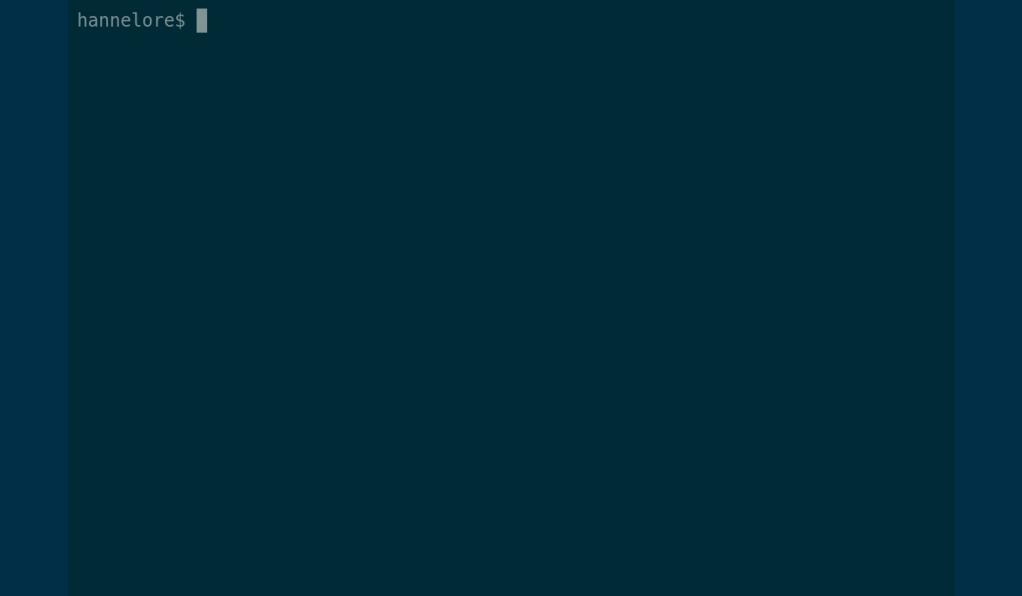






```
package main
import (
    "fmt"
    "net/http"
func main() {
    http.HandleFunc("/", HelloServer)
    http.ListenAndServe(":8080", nil)
func HelloServer(w http.ResponseWriter, r *http.Request) {
    fmt.Fprintf(w, "Hello, %s!", r.URL.Path[1:])
```

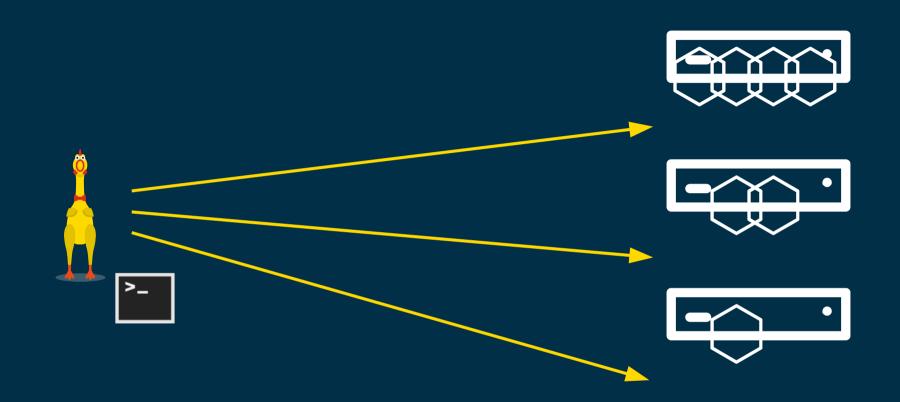


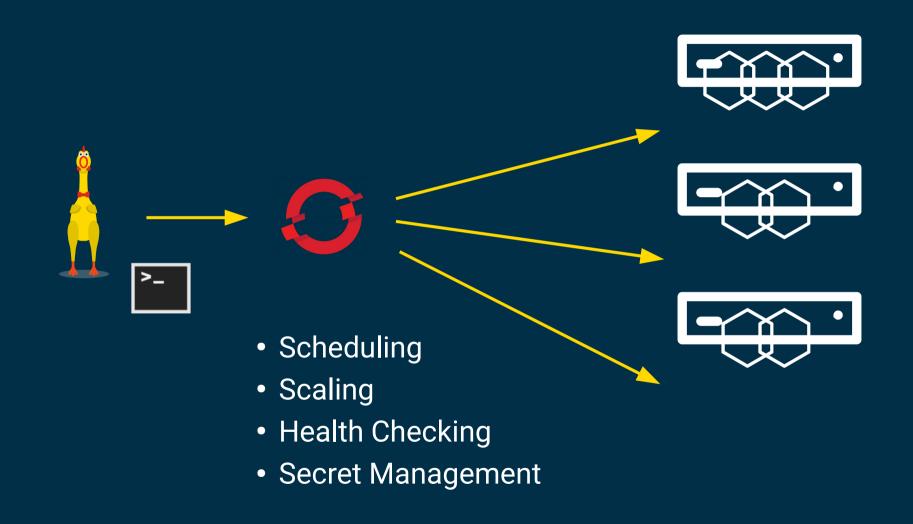








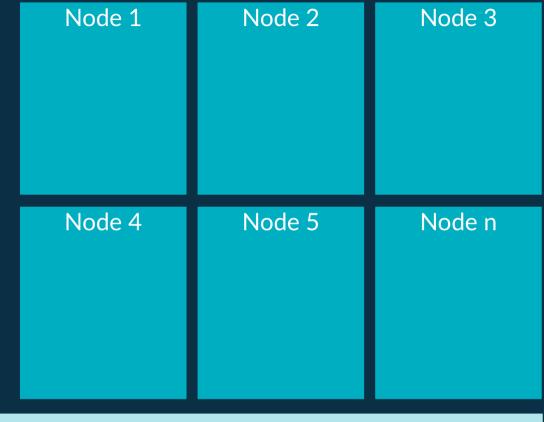






## Architecture

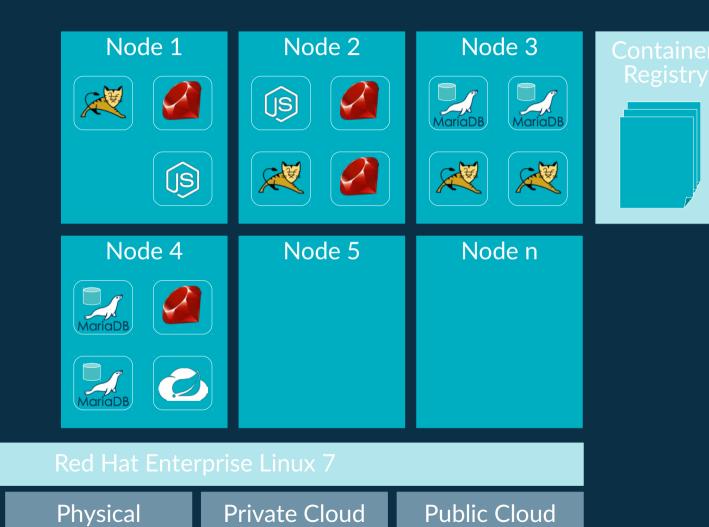
#### Compute nodes



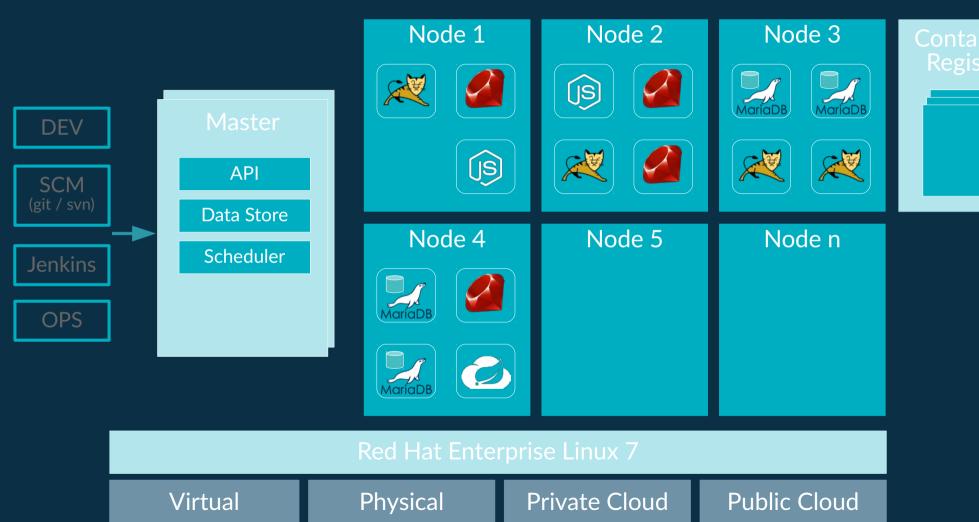


#### Pods

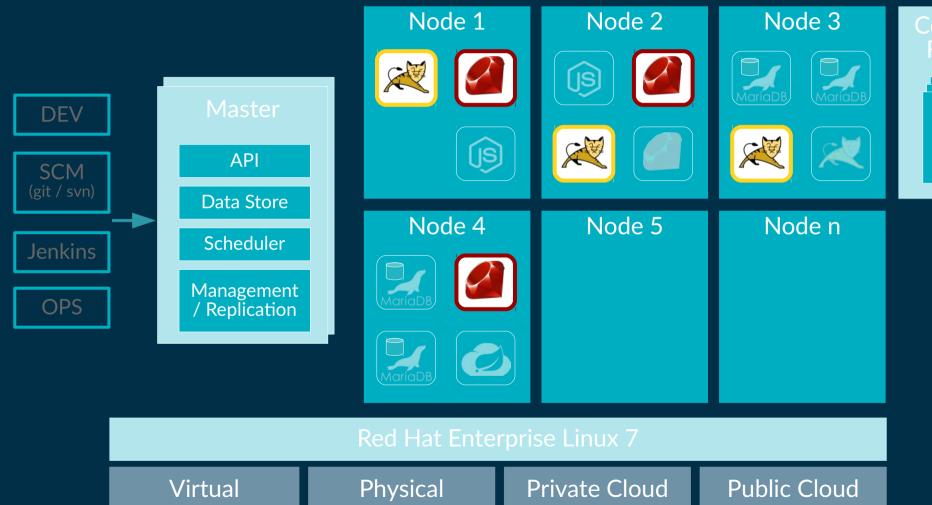
Virtual



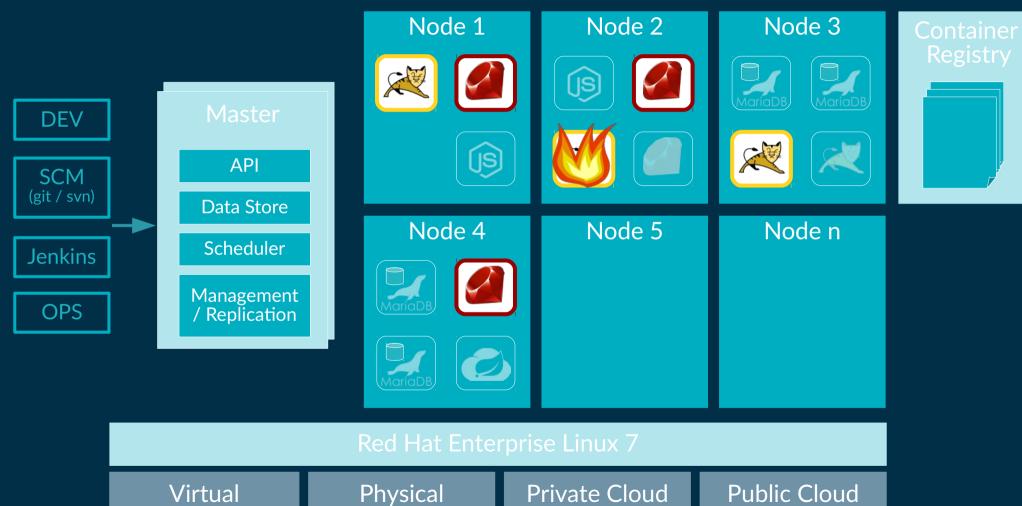
#### Master



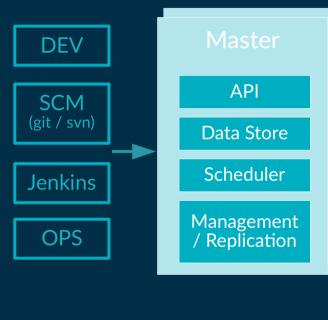
#### Replication controller



#### Pod crashes...



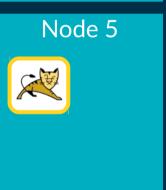
## ... Kubernetes restarts it

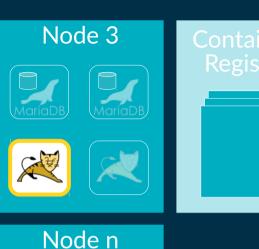












Red Hat Enterprise Linux 7

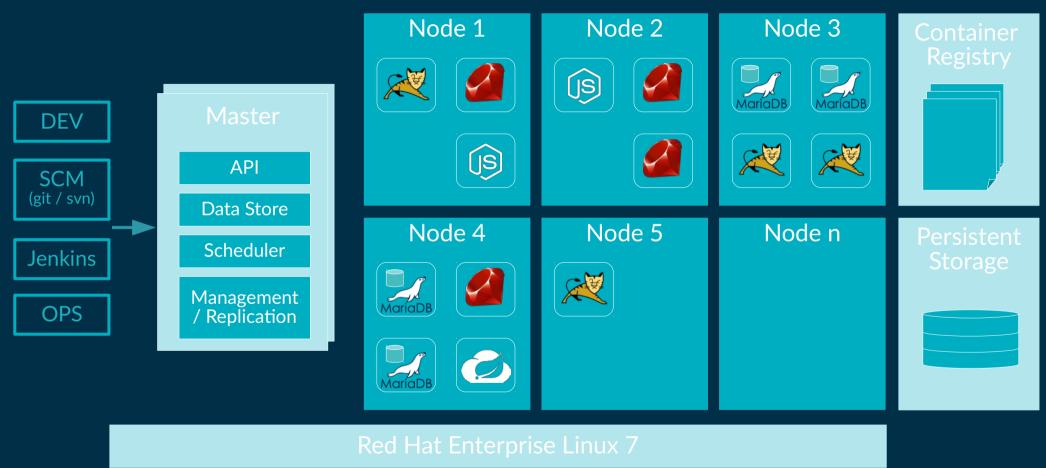
Virtual Physical

Private Cloud

Public Cloud

#### Persistent storage

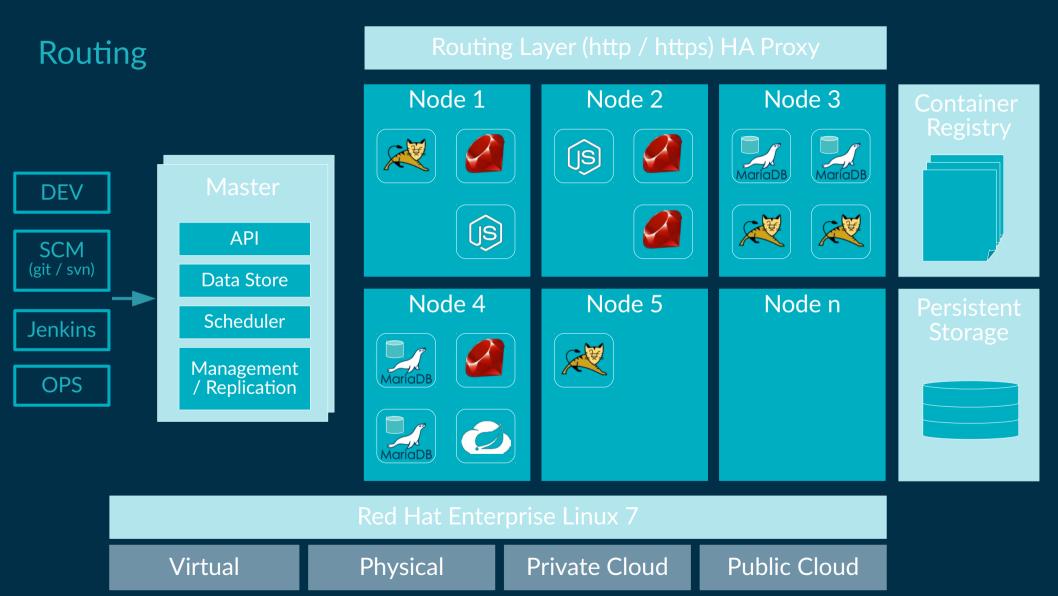
Virtual



**Private Cloud** 

**Public Cloud** 

Physical





### Techlab - Hands-on 2

### Techlab Inhalte

Containerisierung einer Applikation, Bestpractices

Schritt für Schritt Deployment einer Applikation

- 2 Microservices REST
- 2 Microservices Eventdriven mit Kafka

Tekton Pipeline, ArgoCD Gitops

**Application Monitoring mit Prometheus** 

Tracing mit Jaeger

#### Lab resources:

- siehe Chat



Fragen?