Kubernetes Konekt
THE GOODFELLAS
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$175.4b  Cloud Revenue in 2018

21%  Annual Growth
Used by 73% of all organizations

**ENTERPRISE WORKLOAD DISTRIBUTION**

- Private Cloud: 42%
- Public Cloud: 31%
- Non Cloud: 27%
Why Cloud Computing?

- Abstract Infrastructure
- On demand compute power
- Scale and run applications
- Learning Curve
- Company Specific Interfacing
- Creating and Managing Clusters
Kubernetes
Konekt
Access Clusters
Manage Containers
Performance Metrics
- System for management of containerized applications
- Automates deployment and scaling of these applications
Our Solution

Kubernetes Konekt

Cloud Services

You

AWS

Azure

Google Cloud
Provider

Metrics Cluster

SQL
YAML File

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: mario-app
spec:
  replicas: 1
template:
  metadata:
    labels:
      app: mario
spec:
  containers:
    - name: mario
      image: pengbai/docker-supermario
      ports:
        - containerPort: 8080

apiVersion: v1
kind: Service
metadata:
  name: mario-ip-addr
spec:
  selector:
    app: mario
  ports:
    - protocol: "TCP"
      port: 8600
      targetPort: 8080
  type: LoadBalancer
```
Demo
Technical Challenges
Kubernetes API
Metrics Cluster
Technologies
Future Development
Cluster Visualization

Initially 3 replicas
Dynamic Redeployment

Provider Cluster → Container Config File → Provider Cluster
Questions?