



# pulumi

... and k8s





**PULUMI**

**AWS CDK  
TERRAFORM  
K8S YAML**

# PULUMI LEARNING CURVE

The risk I took was calculated,  
but man,

am I bad at math.



Very good documentation:

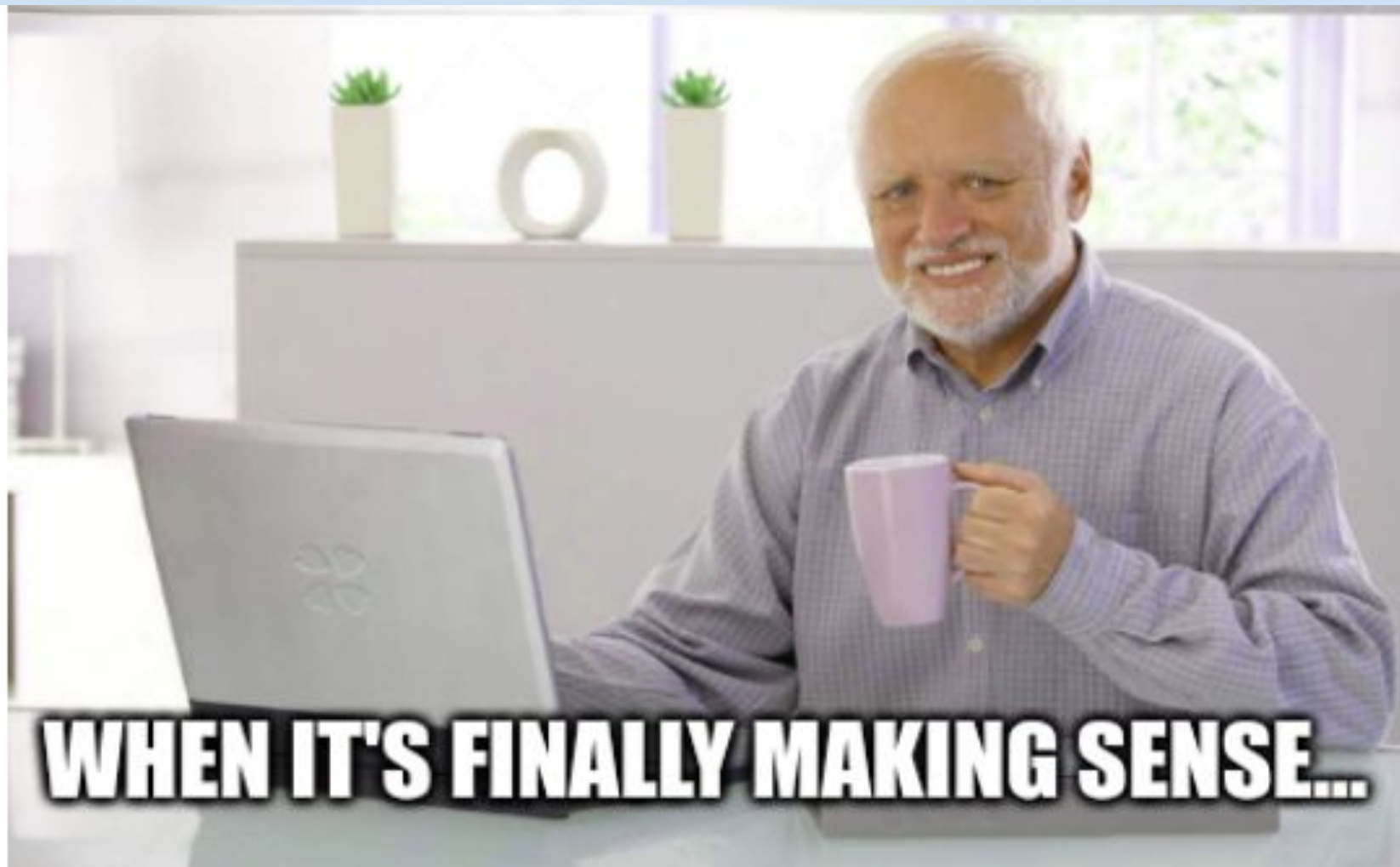
<https://www.pulumi.com/docs/intro/languages/go/>

Available Pulumi SDK documentation and source code:

<https://pkg.go.dev/github.com/pulumi/pulumi/sdk/v3/go/pulumi>

<https://github.com/pulumi/pulumi/tree/master/sdk/go/pulumi>







- Easily porting templates and allowing you to use real code
- Modularity
- Boilerplate
- Stay DRY (Don't Repeat Yourself)





```

pulumi.Run(func(ctx *pulumi.Context) error {

    replzooService, err := corev1.NewService(ctx, "zoo1", &corev1.ServiceArgs{
        Metadata: &metav1.ObjectMetaArgs{
            Name: pulumi.String("zoo1"),
            Labels: pulumi.StringMap{
                "app": pulumi.String("zookeeper-1"),
            },
        },
        Spec: &corev1.ServiceSpecArgs{
            Ports: corev1.ServicePortArray{
                &corev1.ServicePortArgs{
                    Name: pulumi.String("client"),
                    Protocol: pulumi.String("TCP"),
                    Port: pulumi.Int(2181),
                },
                &corev1.ServicePortArgs{
                    Name: pulumi.String("follower"),
                    Protocol: pulumi.String("TCP"),
                    Port: pulumi.Int(2888),
                },
                &corev1.ServicePortArgs{
                    Name: pulumi.String("leader"),
                    Protocol: pulumi.String("TCP"),
                    Port: pulumi.Int(3888),
                },
            },
            Selector: pulumi.StringMap{
                "app": pulumi.String("zookeeper-1"),
            },
        },
    })

    if err != nil {
        return err
    }
}

```

```

apiVersion: v1
kind: Service
metadata:
  name: zoo1
  labels:
    app: zookeeper-1
spec:
  ports:
    - name: client
      port: 2181
      protocol: TCP
    - name: follower
      port: 2888
      protocol: TCP
    - name: leader
      port: 3888
      protocol: TCP
  selector:
    app: zookeeper-1
---
... snip ...

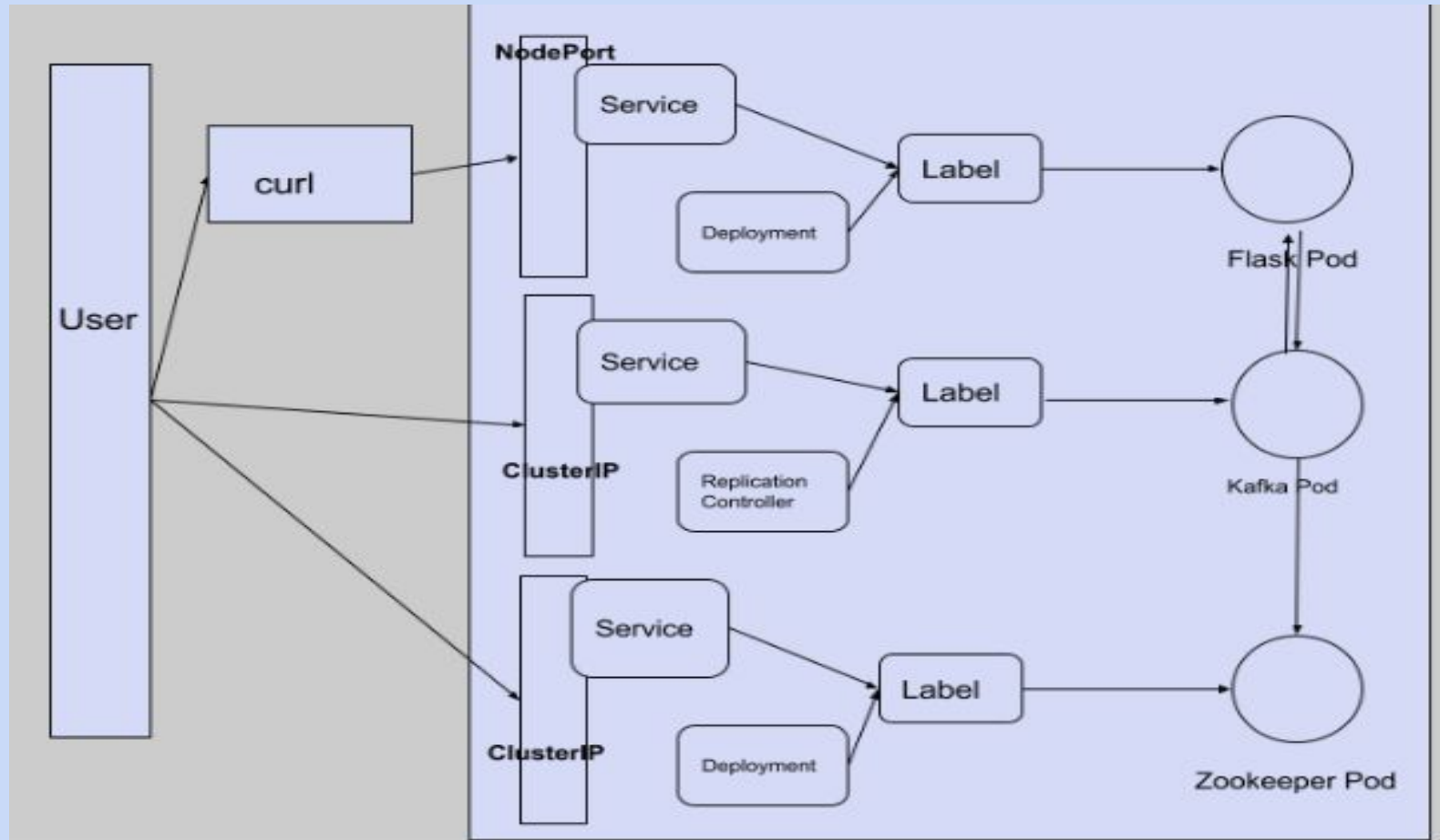
```

**ON MY WAY TO DEPLOY K8S  
RESOURCES WITH PULUMY GOLANG**





## Architectural overview



/demo

# Demo

