

Kubetastic

Or how to provision AWS-/Cloud Native Services
for multi tenant

Problem space

Our customers

- ✦ demand AWS native services to be used out of K8s
- ✦ need access to the provisioned resources
 - ✦ through CLI
 - ✦ through AWS Web GUI
- ✦ demand access isolation through permission mgmt

Assumptions

- ✦ namespace = tenant
- ✦ cluster and native services => same account
- ✦ customers are provided a login role

Solution sketch (1/2)

General

- IAM Role per namespace with assumable accounts configured by the customer (= login roles)
- Enhanced kube2iam for injecting IAM role credentials

AWS services

- provisioning with scoped names (cluster + namespace)
- IAM role owner tag

Permissions

- Policies using the the IAM role owner tag

Solution sketch (2/2)

