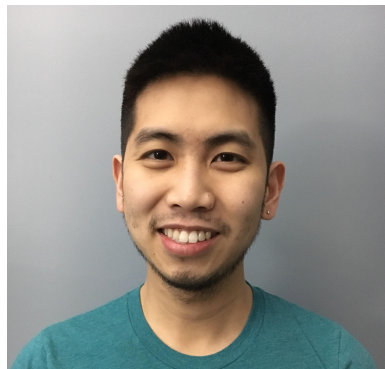




Stand Up Spinnaker in 30mins or Less



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About this talk

What we'll cover:

- Brief overview of Spinnaker
- How to Stand Up Spinnaker
 - Halyard
 - Installing Spinnaker on to EKS
 - Adding a 2nd EKS cluster
- Where to get support



Spinnaker is a
multi-cloud,
continuous delivery platform
for the enterprise

Spinnaker is a set of interfaces; e.g. a platform

Continuous
Integration



Delivery

Security
Canaries



Observability
Rollbacks

Infrastructure



What we've prepared already:

Everything in this webinar is available at github.com/armory/webinar

1. Created two EKS Clusters
 - a. One for Spinnaker ("webinar-eks-spinnaker")
 - b. One as a Deployment Target ("webinar-eks-target")
2. Installed NGINX Ingress Controller in the Spinnaker EKS cluster, with a certificate for `*.webinar.armory.io`
3. Set up a DNS entry pointing `*.webinar.armory.io` at our NGINX Ingress Controller
4. Create a kubeconfig file with access to both EKS clusters
5. Installed the `aws` CLI and the `kubectl` CLI

Introduction to kubeconfig

```
apiVersion: v1
```

clusters:

- cluster:
 - certificate-authority-data: <base64 CA>
 - server: https://<cluster-url>
 - name: cluster-1
- cluster:
 - certificate-authority-data: <base64 CA>
 - server: https://<cluster-url>
 - name: cluster-2

users:

- name: cluster-1-token-user
 - user:
 - token: <JWT-encoded-token>
- name: cluster-2-iam-user
 - exec:
 - args:
 - token
 - -i
 - <EKS_CLUSTER_NAME>
 - command: aws-iam-authenticator

...

contexts:

- context:
 - cluster: cluster-1
 - user: cluster-1-token-user
 - name: cluster-1-context
- context:
 - cluster: cluster-2
 - user: cluster-2-iam-user
 - name: cluster-2-context

current-context: cluster-1-context

kind: Config

preferences: {}

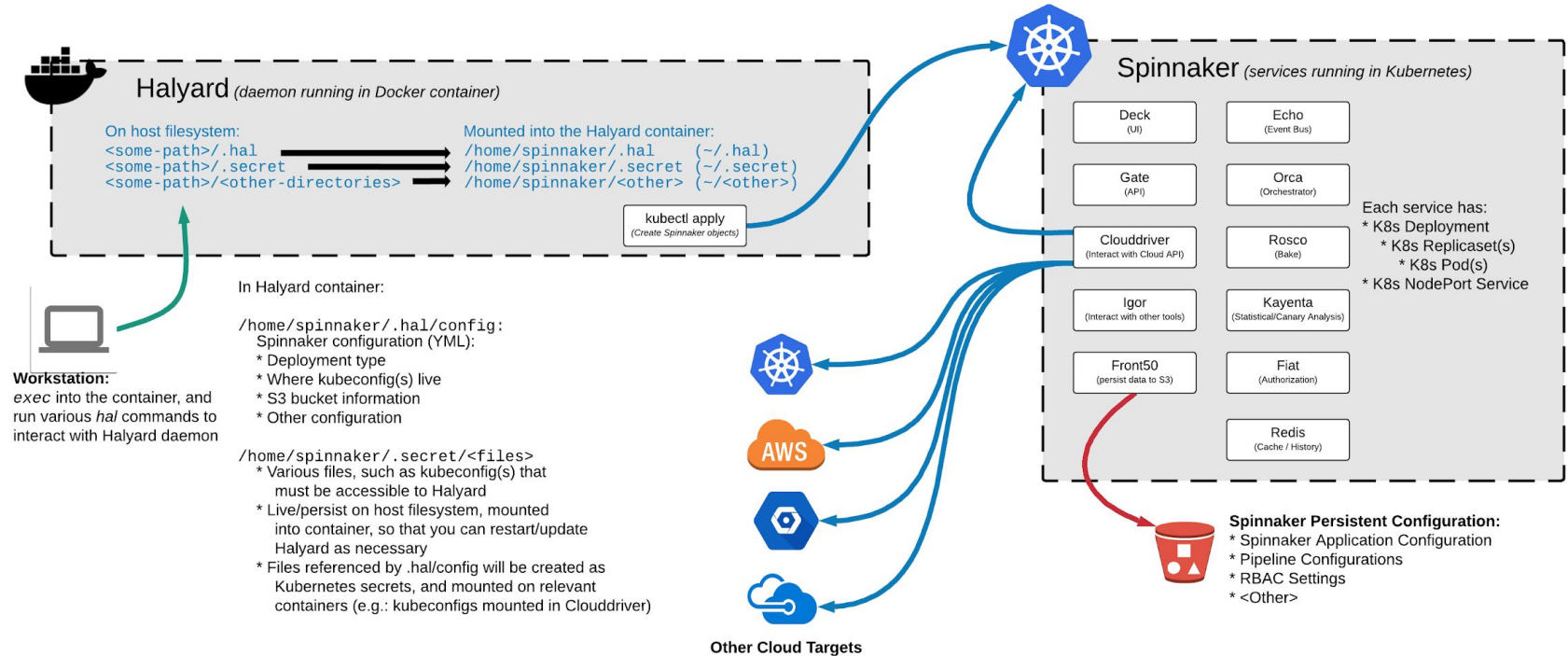
```
+ kubectl config get-contexts
CURRENT  NAME                                CLUSTER                                AUTHINFO
*         webinar-eks-spinnaker               webinar-eks-spinnaker                 webinar-eks-spinnaker
          webinar-eks-target           webinar-eks-target                   webinar-eks-target
```

Spinnaker Up and Running

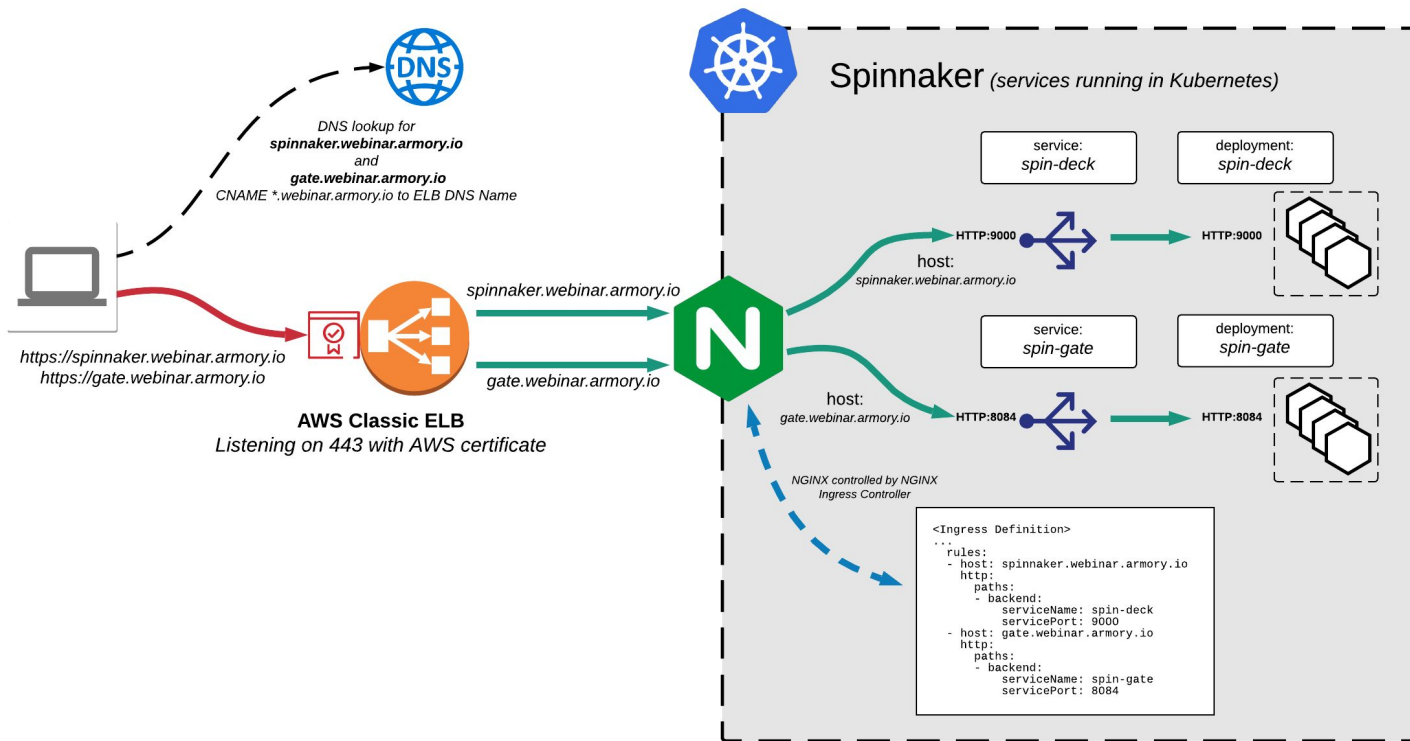
In order to install Spinnaker, we will need to do the following:

1. Get credentials (`kubeconfig`) for a Kubernetes cluster where Spinnaker will be installed
2. Set up an S3 bucket and credentials to access that S3 bucket
3. Configure Kubernetes Service Accounts for EKS clusters
4. Install Spinnaker using Halyard
5. Expose Spinnaker

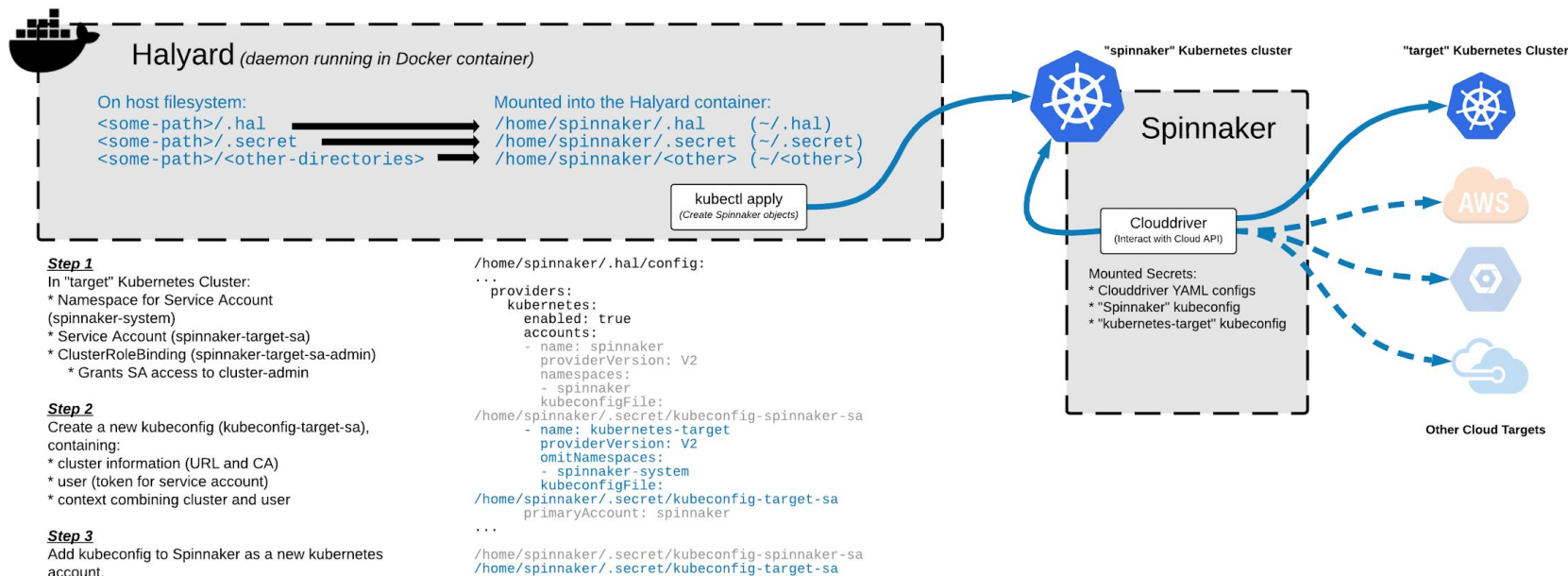
Installing Spinnaker



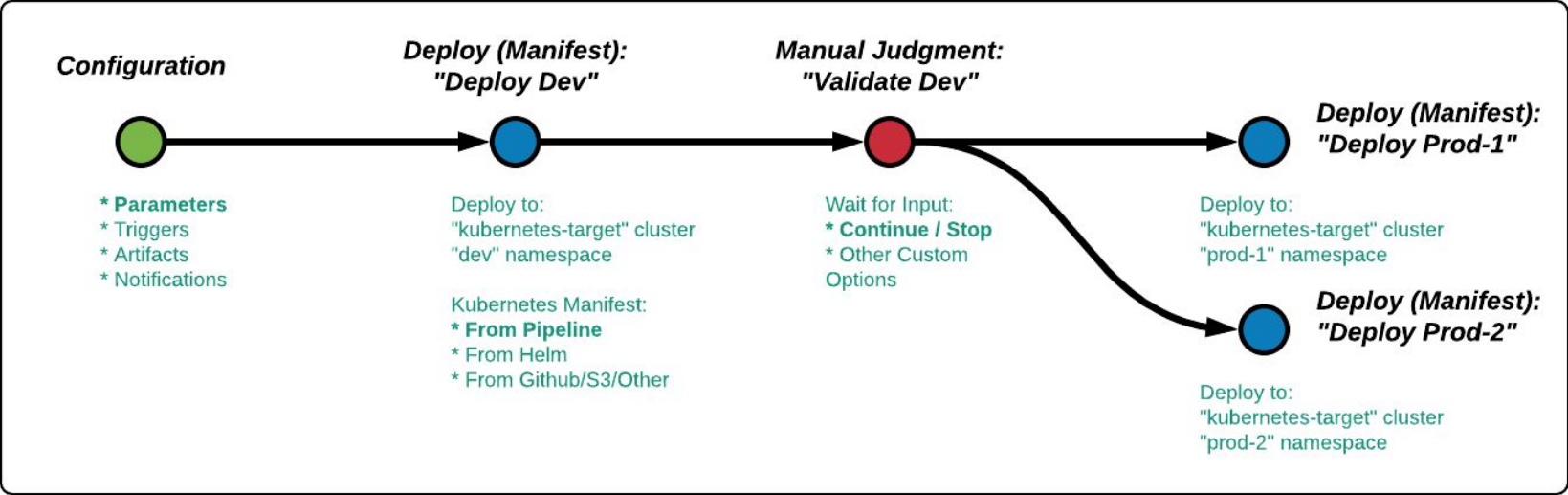
Accessing Spinnaker (Ingress and Service)



Adding a Kubernetes Deployment Target



Demo Pipeline



Getting Started With Spinnaker

Getting Started Resources:

- Spinnaker Slack: <http://join.spinnaker.io/>
- Video Tutorials: <https://docs.armory.io/user-guides/video-tutorials/>

Installing Spinnaker:

- Halyard Install: <https://www.spinnaker.io/setup/install/>
- Armory Install: <https://docs.armory.io/spinnaker/install/>