YAML Required

- apiVersion: version of the k8s API used to create the object
- kind: kind of object you want to create
- metadata: data that helps uniquely identify the object (name, UID, namespace)
- spec: what state you desire for the object

YAML Example

```yaml
apiVersion: apps/v1 # for versions before 1.9.0 use apps/v1beta2
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  selector:
    matchLabels:
      app: nginx
  replicas: 2 # tells deployment to run 2 pods matching the template
template:
  metadata:
    labels:
      app: nginx
  spec:
    containers:
    - name: nginx
      image: nginx:1.14.2
      ports:
        - containerPort: 80
```

YAML Maps and lists

- Look [here](#)
- Indentation
  - be consistent
  - I usually use 2 spaces, but the number doesn’t matter as long as you are consistent.
  - DONT USE TABS

Next example

```yaml
...
apiVersion: v1 #deployments dont exist in v1
kind: Pod       #what we are creating, service,Deployment, etc...
metadata:
  name: rss-site
labels:
  app: web
spec:           #define actual objects within the pod
  containers:
    - name: front-end
      image: nginx
      ports:
        - containerPort: 80
    - name: rss-reader
      image: nickchase/rss-php-nginx:v1
      ports:
        - containerPort: 88
```
How to spec a pod

Maybe see the pod spec [here](#).

**Container spec**

```sh
kubectl exec --stdin --tty rss-site -- /bin/bash
```

If a pod has multiple containers

```sh
kubectl exec -i -t my-pod --container main-app -- /bin/bash
```

Pass other commands in:

```sh
kubectl exec --stdin --tty rss-site -- env
```

**Misc**

- kubectl exec -stdin -tty rss-site - /bin/bash
- If a pod has multiple containers
  - kubectl exec -i -t my-pod -container main-app - /bin/bash
- Pass other commands in:
  - kubectl exec --stdin --tty rss-site -- env

**Identidock Example**

Let’s redo the identidock example that we did before, but in K8s