# Create a replicaset

Let's not worry about deployments, lets just create a replicaset that starts 3 pods

- Create rs.yml

```yaml
apiVersion: apps/v1
kind: ReplicaSet
metadata:
  name: nginx-replicaset
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        ports:
        - containerPort: 80
```

- Apply the manifest

```
kubectl apply -f rs.yml
```

- Get the rs details

```
kubectl get rs
```

```
NAME                DESIRED   CURRENT   READY   AGE
```

- Check the pods



```
kubectl get pods
```

```
NAME                    READY   STATUS    RESTARTS   AGE
nginx-replicaset-7zp2v  1/1     Running   0          35s
nginx-replicaset-q264f  1/1     Running   0          35s
nginx-replicaset-vj42z  1/1     Running   0          35s
```

- Try deleting a pod and check if it self heals

```
kubectl delete pod nginx-replicaset-7zp2v
kubectl get pods
```

- Try adding a pod with the `app=nginx`

```
kubectl run nginx-pod --image=nginx --labels="app=nginx"
```

- Ensure it gets terminated immedietely because the `rs` already has 3 pods
- Delete the replicaset

```
kubectl delete rs nginx-deployment-576c6b7b6
```

💡 Note the naming convention of the pods. The pods are named after the `replicaset` followed by a unique id (for eg nginx-replicaset-vj42z)