**Scale the application**

1. apiVersion: apps/v1
2. kind: Deployment
3. metadata:
4. name: php-apache
5. spec:
6. selector:
7. matchLabels:
8. run: php-apache
9. template:
10. metadata:
11. labels:
12. run: php-apache
13. spec:
14. containers:
15. - name: php-apache
16. image: registry.k8s.io/hpa-example
17. ports:
18. - containerPort: 80
19. resources:
20. limits:
21. cpu: 500m
22. requests:
23. cpu: 200m
24. ---
25. apiVersion: v1
26. kind: Service
27. metadata:
28. name: php-apache
29. labels:
30. run: php-apache
31. spec:
32. ports:
33. - port: 80
34. selector:
35. run: php-apache

**Create the service and POD**   
  
  
apiVersion: v1

1. kind: Pod
2. metadata:
3. name: nginx
4. labels:
5. app:
6. nginx
7. spec:
8. containers:
9. - name: nginx
10. image: nginx:latest
11. ---
12. apiVersion: v1
13. kind: Service
14. metadata:
15. name: nginx-service
16. spec:
17. selector:
18. app: nginx
19. ports:
20. - port: 80

**Special kind of deployment that adds a pod in every node.**

apiVersion: apps/v1

kind: DaemonSet

metadata:

name: fluentd

namespace: demo

labels:

app: fluentd

spec:

selector:

matchLabels:

app: fluentd

template:

metadata:

labels:

app: fluentd

spec:

containers:

- name: fluentd

image: fluent/fluentd:v0.14.10

imagePullPolicy: IfNotPresent

resources:

limits:

memory: 200Mi

requests:

cpu: 100m

memory: 200Mi

volumeMounts:

- name: varlog

mountPath: /var/log

- name: varlibdockercontainers

mountPath: /var/lib/docker/containers

readOnly: true

terminationGracePeriodSeconds: 30

volumes:

- name: varlog

hostPath:

path: /var/log

- name: varlibdockercontainers

hostPath:

path: /var/lib/docker/containers