

Kind - Create Cluster

```
pms/nginx/K8s_configuration on [?]main [!?] on ☁
> kind create cluster --config-kind-config.yaml
Creating cluster "kind" ...
  ✓ Ensuring node image (kindest/node:v1.27.3)
  ✓ Preparing nodes
  ✓ Writing configuration
  ✓ Starting control-plane
  ✓ Installing CNI
  ✓ Installing StorageClass
  ✓ Joining worker nodes
Set kubectrl context to "kind-kind"
You can now use your cluster with:

kubectrl cluster-info --context kind-kind

Thanks for using kind! 🍌

pms/nginx/K8s_configuration on [?]main [!?] on ☁ took 2m10s
> kind get clusters
kind

pms/nginx/K8s_configuration on [?]main [!?] on ☁
> kind get nodes
kind-control-plane
kind-worker

pms/nginx/K8s_configuration on [?]main [!?] on ☁
> kubectrl get nodes -o wide
NAME                                STATUS    ROLES    AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE                                     KERNEL-VERSION   CONTAINER-RUN
TIME
kind-control-plane Ready    control-plane  51s   v1.27.3   172.18.0.3    <none>        Debian GNU/Linux 11 (bullseye)           5.15.49-linuxkit-pr   containerd://
1.7.1
kind-worker          Ready    <none>        30s   v1.27.3   172.18.0.2    <none>        Debian GNU/Linux 11 (bullseye)           5.15.49-linuxkit-pr   containerd://
1.7.1

pms/nginx/K8s_configuration on [?]main [!?] on ☁
> 
```

product-admin-service deployment

```
pms/product-admin-service/K8s_configuration on [?]main [!?] on ☁
> kubectrl apply -f pas-app-secret.yaml
secret/pas-app-secret created

pms/product-admin-service/K8s_configuration on [?]main [!?] on ☁
> kubectrl apply -f pas-app-configmap.yaml
Error from server (BadRequest): error when creating "pas-app-configmap.yaml": ConfigMap in version "v1" cannot be handled as a ConfigMap: json: cannot unmarsh
al number into Go struct field ConfigMap.data of type string

pms/product-admin-service/K8s_configuration on [?]main [!?] on ☁
> kubectrl apply -f pas-app-configmap.yaml
configmap/pas-app-configmap created

pms/product-admin-service/K8s_configuration on [?]main [!?] on ☁
> kubectrl apply -f pas-app-deployment.yaml
deployment.apps/pas-deployment created

pms/product-admin-service/K8s_configuration on [?]main [!?] on ☁
> kubectrl apply -f pas-app-service.yaml
service/pas-app-service created

pms/product-admin-service/K8s_configuration on [?]main [!?] on ☁
> 
```

product-search-service deployment

```
pms/product-search-service/K8s_configuration on [?]main [!?] on ☁
> kubectrl apply -f pss-app-secret.yaml
secret/pss-app-secret created

pms/product-search-service/K8s_configuration on [?]main [!?] on ☁
> kubectrl apply -f pss-app-configmap.yaml
configmap/pss-app-configmap created

pms/product-search-service/K8s_configuration on [?]main [!?] on ☁
> kubectrl apply -f pss-app-deployment.yaml
deployment.apps/pss-deployment created

pms/product-search-service/K8s_configuration on [?]main [!?] on ☁
> kubectrl apply -f pss-app-service.yaml
service/pss-app-service created

pms/product-search-service/K8s_configuration on [?]main [!?] on ☁
> 
```

nginx-api-gateway deployment

```
pms/nginx/K8s_configuration on [?]main [!?] on ☁
[>] kubectl apply -f nginx-api-gateway-configmap.yaml
configmap/nginx-config created

pms/nginx/K8s_configuration on [?]main [!?] on ☁
[>] kubectl apply -f nginx-api-gateway-deployment.yaml
deployment.apps/nginx-api-gateway created

pms/nginx/K8s_configuration on [?]main [!?] on ☁
[>] kubectl apply -f nginx-api-gateway-service.yaml
service/nginx-api-gateway created

pms/nginx/K8s_configuration on [?]main [!?] on ☁
[>]
```

K8s cluster details

```
pms/nginx/K8s_configuration on [?]main [!?] on ☁
[>] kubectl get all -o wide
```

NAME	READY	STATUS	RESTARTS	AGE	IP	NODE	NOMINATED NODE	READINESS GATES
pod/nginx-api-gateway-bb954fc67-cgmr6	1/1	Running	0	43s	10.244.1.4	kind-worker	<none>	<none>
pod/pas-deployment-56c7778686-6b42r	1/1	Running	0	4m35s	10.244.1.2	kind-worker	<none>	<none>
pod/pss-deployment-69bf9f5554-lmkbg	1/1	Running	0	118s	10.244.1.3	kind-worker	<none>	<none>

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE	SELECTOR
service/kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	8m31s	<none>
service/nginx-api-gateway	NodePort	10.96.222.13	<none>	80:30080/TCP	38s	app=nginx-api-gateway
service/pas-app-service	ClusterIP	10.96.164.184	<none>	8080/TCP	4m29s	app=pas-app
service/pss-app-service	ClusterIP	10.96.37.70	<none>	8081/TCP	111s	app=pss-app

NAME	READY	UP-TO-DATE	AVAILABLE	AGE	CONTAINERS	IMAGES	SELECTOR
deployment.apps/nginx-api-gateway	1/1	1	1	43s	nginx	nginx:1.19	app=nginx-api-gat
deployment.apps/pas-deployment	1/1	1	1	4m35s	pas-app-container	neeharikasingh/product-admin-service:1.0	app=pas-app
deployment.apps/pss-deployment	1/1	1	1	118s	pss-app-container	neeharikasingh/product-search-service:1.0	app=pss-app

NAME	DESIRED	CURRENT	READY	AGE	CONTAINERS	IMAGES	SELECTOR
replicaset.apps/nginx-api-gateway-bb954fc67	1	1	1	43s	nginx	nginx:1.19	app=nginx-ap
i-gateway,pod-template-hash-bb954fc67							
replicaset.apps/pas-deployment-56c7778686	1	1	1	4m35s	pas-app-container	neeharikasingh/product-admin-service:1.0	app=pas-app,
pod-template-hash-56c7778686							
replicaset.apps/pss-deployment-69bf9f5554	1	1	1	118s	pss-app-container	neeharikasingh/product-search-service:1.0	app=pss-app,
pod-template-hash-69bf9f5554							

```
pms/nginx/K8s_configuration on [?]main [!?] on ☁
[>]
```