

Microservices

```
master@master-vm:~/ecommerce-microservices$ sudo docker exec -it ecommerce-microservices-postgres-1 psql -U postgres
psql (17.4 (Debian 17.4-1.pgdg120+2))
Type "help" for help.
```

```
postgres=# \l
```

Name	Owner	Encoding	Locale Provider	Collate	Ctype	Locale	ICU Rules	Access privileges
postgres	postgres	UTF8	libc	en_US.utf8	en_US.utf8			
template0	postgres	UTF8	libc	en_US.utf8	en_US.utf8			=c/postgres +
template1	postgres	UTF8	libc	en_US.utf8	en_US.utf8			=c/postgres + postgres=CTC/postgres

(3 rows)

```
postgres=# CREATE DATABASE ecommerce;
```

```
CREATE DATABASE
```

```
postgres=# \dt
```

Schema	Name	Type	Owner
public	products	table	postgres
public	users	table	postgres

(2 rows)

```
postgres=#
```

```
master@master-vm:~/ecommerce-microservices$ sudo docker-compose up -d
WARN[0000] /home/master/ecommerce-microservices/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please
remove it to avoid potential confusion
```

```
[+] Running 8/8
```

✓ Network ecommerce-microservices_default	Created	0.2s
✓ Container zookeeper	Started	2.3s
✓ Container ecommerce-microservices-postgres-1	Started	3.4s
✓ Container kafka	Started	4.8s
✓ Container product-service	Started	6.9s
✓ Container user-service	Started	6.3s
✓ Container order-service	Started	7.2s
✓ Container payment-service	Started	9.2s

```
=> => naming to docker.io/samimmondal/payment-service
```

```
=> [payment-service] resolving provenance for metadata file
```

```
[+] Building 4/4
```

✓ order-service	Built
✓ payment-service	Built
✓ product-service	Built
✓ user-service	Built

```
master@master-vm:~/ecommerce-microservices$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
6a3ae930b1d3	sanimondal/payment-service	"java -jar app.jar"	7 minutes ago	Up 7 minutes	8083/tcp, 0.0.0.0:808
3->8080/tcp, :::8083->8080/tcp		payment-service			
7ce373b04da8	sanimondal/product-service	"java -jar app.jar"	7 minutes ago	Up 7 minutes	8082/tcp, 0.0.0.0:808
2->8080/tcp, :::8082->8080/tcp		product-service			
82051b2a852d	sanimondal/user-service	"java -jar app.jar"	7 minutes ago	Up 7 minutes	8081/tcp, 0.0.0.0:808
1->8080/tcp, :::8081->8080/tcp		user-service			
a25d3508b444	confluentinc/cp-kafka	"/etc/confluent/dock..."	7 minutes ago	Up 7 minutes	0.0.0.0:9092->9092/tc
p, :::9092->9092/tcp		kafka			
c6e049404840	confluentinc/cp-zookeeper	"/etc/confluent/dock..."	7 minutes ago	Up 7 minutes	2888/tcp, 0.0.0.0:218
1->2181/tcp, :::2181->2181/tcp, 3888/tcp		zookeeper			
a0e610387a34	postgres	"docker-entrypoint.s..."	7 minutes ago	Up 7 minutes (healthy)	0.0.0.0:5432->5432/tc
p, :::5432->5432/tcp		ecommerce-microservices-postgres-1			

```
master@master-vm:~/ecommerce-microservices/k8s$ kubectl apply -f .
```

```
deployment.apps/order-service unchanged
service/order-service unchanged
deployment.apps/payment-service unchanged
service/payment-service unchanged
deployment.apps/product-service created
service/product-service unchanged
deployment.apps/user-service unchanged
service/user-service unchanged
```

```
master@master-vm:~/ecommerce-microservices/k8s$ kubectl get all
```

NAME	READY	STATUS	RESTARTS	AGE
pod/order-service-f646f6c56-kdqzz	0/1	Running	2 (20s ago)	2m25s
pod/payment-service-6497bcbcf5-9jhlw	0/1	CrashLoopBackOff	2 (38s ago)	2m25s
pod/product-service-69b7cccd56-zvdh7	0/1	Running	0	10s
pod/user-service-68d8c8c84d-n9z5f	0/1	CrashLoopBackOff	2 (20s ago)	2m24s

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
service/kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	115m
service/order-service	ClusterIP	10.108.105.245	<none>	8084/TCP	2m25s
service/payment-service	ClusterIP	10.108.213.66	<none>	8083/TCP	2m25s
service/product-service	ClusterIP	10.107.145.110	<none>	8082/TCP	2m25s
service/user-service	ClusterIP	10.100.3.171	<none>	8081/TCP	2m24s

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
deployment.apps/order-service	0/1	1	0	2m25s
deployment.apps/payment-service	0/1	1	0	2m25s
deployment.apps/product-service	0/1	1	0	10s
deployment.apps/user-service	0/1	1	0	2m24s

NAME	DESIRED	CURRENT	READY	AGE
replicaset.apps/order-service-f646f6c56	1	1	0	2m25s
replicaset.apps/payment-service-6497bcbcf5	1	1	0	2m25s
replicaset.apps/product-service-69b7cccd56	1	1	0	10s
replicaset.apps/user-service-68d8c8c84d	1	1	0	2m24s

```
master@master-vm:~/ecommerce-microservices/k8s$
```

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