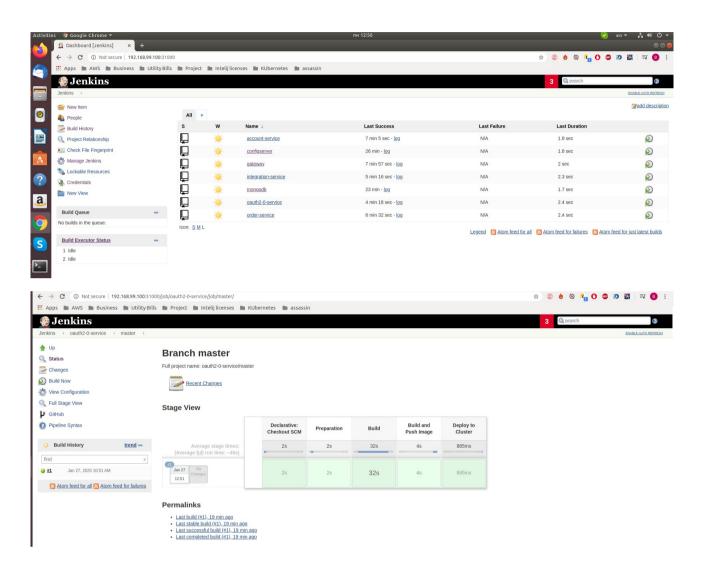
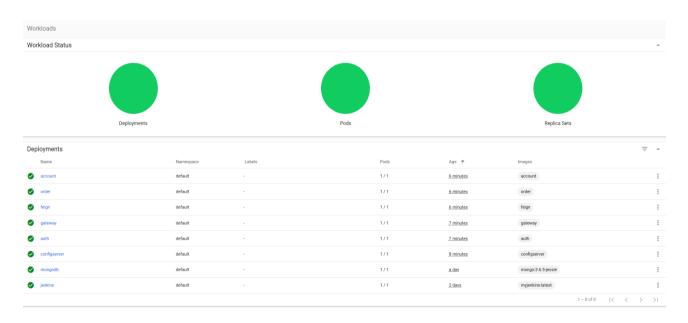
1) Deployed Jenkins as Kubernetes Pod to practice with setting up simple CI/CD platform for my project. All services are deployed successfully on GitHub WebHook on merge to master

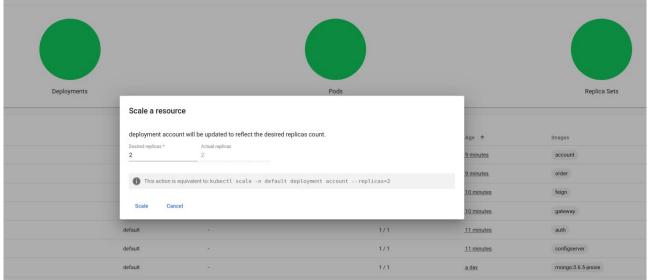


2) Here you can see all deployed pods

user@sys-009:~/Documents/0	3 Educat	ion/fil	ancial st	ock-broker	-2/ionk	inst kubectl get all	
NAME	3. Euucat	READY	STATUS	RESTART		IIIS\$ Kubectt get att	
pod/account-5b5797b599-mmg	8r	1/1	Running	0	21m		
pod/account-3b3/9/b399-mmq8r pod/auth-984864b7b-r4x4v		1/1	Running	0	18m		
pod/configserver-768cf48485-mqntv		1/1	Running		39m		
pod/feign-656f4cc9f5-7qf7f		1/1	Running	0	18m		
		1/1	Running		21m		
		1/1	Running	0	65m		
		1/1	Running	0	38m		
pod/order-6fdfccbf5d-zhlb4		1/1	Running	0	19m		
F							
NAME	TYPE	CLI	JSTER-IP	EXTERN	AL-IP	PORT(S)	AGE
service/account	NodePort	10	.96.165.13	3 <none></none>		8081:31380/TCP	21m
service/auth	NodePort	10	.96.59.143	<none></none>		8084:32540/TCP	18m
service/configserver	NodePort	10	.96.153.46	<none></none>		8888:32251/TCP	39m
service/feign	NodePort	10	.96.14.96	<none></none>		8099:30715/TCP	18m
service/fleetman-mongodb	ClusterI	P 10	.96.73.215	<none></none>		27017/TCP	38m
service/gateway	NodePort	10	.96.128.130	<none></none>		5000:31547/TCP	21m
service/jenkins	NodePort	10	.96.89.69	<none></none>		8080:31000/TCP,50000:32370/TCP	65m
service/kubernetes	ClusterI	P 10	.96.0.1	<none></none>		443/TCP	66m
service/order	NodePort	10	.96.196.242	2 <none></none>		8092:32457/TCP	19m
NAME	READ		-TO-DATE	AVAILABLE			
deployment.apps/account	1/1				21m		
deployment.apps/auth	1/1				18m		
deployment.apps/configserv	er 1/1 1/1	1 1		1	39m 18m		
deployment.apps/feign deployment.apps/gateway	1/1				18m 21m		
deployment.apps/jenkins	1/1	1		1	65m		
deployment.apps/mongodb	1/1				38m		
deployment.apps/order	1/1	1		1	19m		
deproyment: apps/order	1/1				13111		
NAME			DESIRED	CURRENT	READY	AGE	
replicaset.apps/account-5b5797b599			1	1	1	21m	
replicaset.apps/auth-984864b7b					18m		
replicaset.apps/configserver-768cf48485					39m		
replicaset.apps/feign-656f4cc9f5					18m		
replicaset.apps/gateway-74754c568d					21m		
replicaset.apps/jenkins-9f877b65c						65m	
replicaset.apps/mongodb-7dc4596644						38m	
replicaset.apps/order-6fdf	ccbf5d		1	1	1	19m	

3) Setup of Kubernetes UI for management of deployment. Example of scaling services



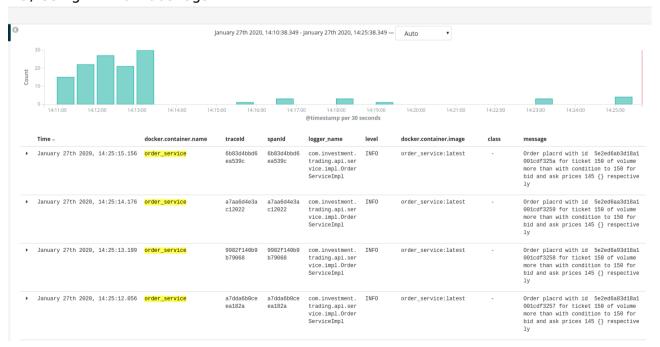


4) We can check if our services have scaled up as expected

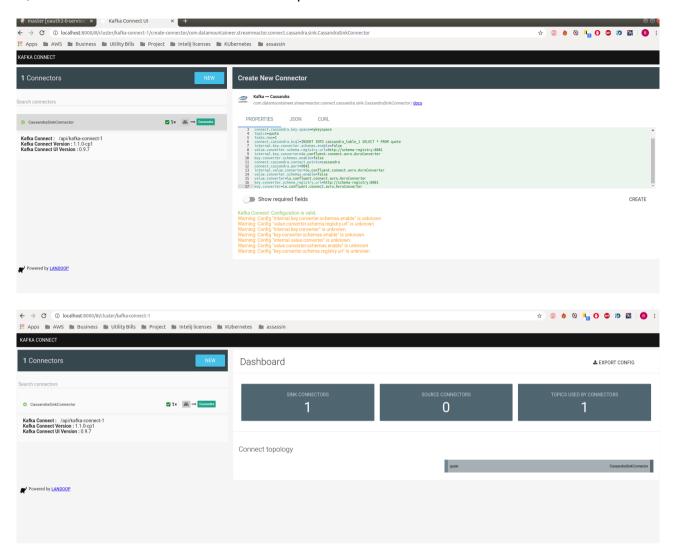
Deployments						→
Name	Namespace	Labels	Pods	Age ↑	Images	
account	default		2/2	9.minutes	account	1
order	default	-	3/3	9 minutes	order	:

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
deployment.apps/account	2/2	2	2	43m
deployment.apps/auth	1/1	1	1	41m
deployment.apps/configserver	1/1	1	1	61m
deployment.apps/feign	1/1	1	1	41m
deployment.apps/gateway	1/1	1	1	44m
deployment.apps/jenkins	1/1	1	1	88m
deployment.apps/mongodb	1/1	1	1	61m
deployment.apps/order	3/3	3	3	42m

5) Using ELK to trace logs



5) Kafka Connect with Cassandra setup

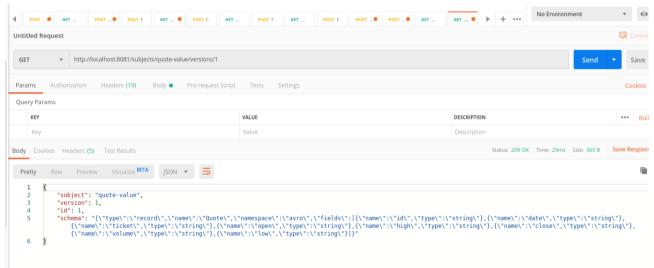


6) Data sent to Kafka topic are sent to Cassandra Sink in Kafka as Avro:

in Cassandra mirrorred through Kafka Connect:

```
cqlsh:mykeyspace> select * from cassandra table 1;
id | close | date | high | low | open | ticket | volume
(0 rows)
cqlsh:mykeyspace> select * from cassandra table 1;
id | close | date
                                     | high | low
                                                         | open | ticket | volume
 g3 | 157.4650 | 2019-12-20 15:58:00 | 157.5000 | 157.4200 | 157.4300 | MSFT | 146344
 g2 | 157.5250 | 2019-12-20 15:59:00 | 157.5300 | 157.4600 | 157.4600 | MSFT | 214735
g10 | 157.5250 | 2019-12-20 15:59:00 | 157.5300 | 157.4600 | 157.4600 |
                                                                       MSFT | 214735
 g6 | 157.5250 | 2019-12-20 15:59:00 | 157.5300 | 157.4600 | 157.4600 |
                                                                       MSFT | 214735
 g8 | 157.4400 | 2019-12-20 15:57:00 | 157.4600 | 157.3800 | 157.4000 |
                                                                       MSFT | 167296
 g7 | 157.4650 | 2019-12-20 15:58:00 | 157.5000 | 157.4200 | 157.4300 |
                                                                         MSFT | 146344
 g5 | 157.4000 | 2019-12-20 16:00:00 | 157.5300 | 157.2400 | 157.5200 |
                                                                         MSFT | 785507
 g1 | 157.4000 | 2019-12-20 16:00:00 | 157.5300 | 157.2400 | 157.5200 |
                                                                         MSFT | 785507
 g4 | 157.4400 | 2019-12-20 15:57:00 | 157.4600 | 157.3800 | 157.4000 |
                                                                         MSFT | 167296
g11 | 157.4650 | 2019-12-20 15:58:00 | 157.5000 | 157.4200 | 157.4300
                                                                         MSFT | 146344
g12 |
      157.4400 | 2019-12-20 15:57:00 | 157.4600 | 157.3800 | 157.4000
                                                                         MSFT | 167296
 g9 | 157.4000 | 2019-12-20 16:00:00 | 157.5300 | 157.2400 | 157.5200 |
                                                                         MSFT | 785507
```

Avro schema in Schema Registry Client



7) Zipkin Traces Request:

