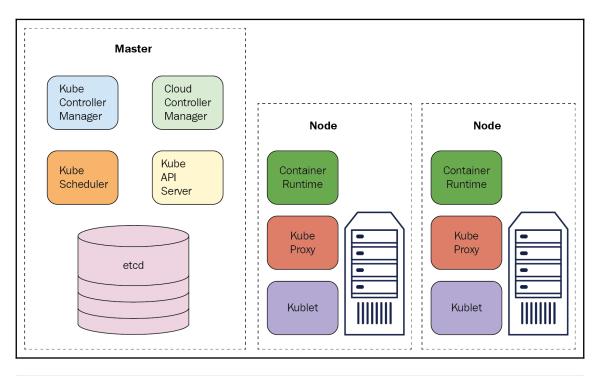
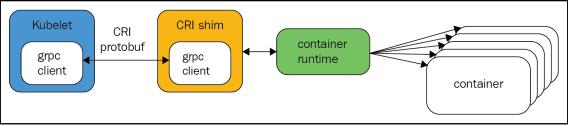
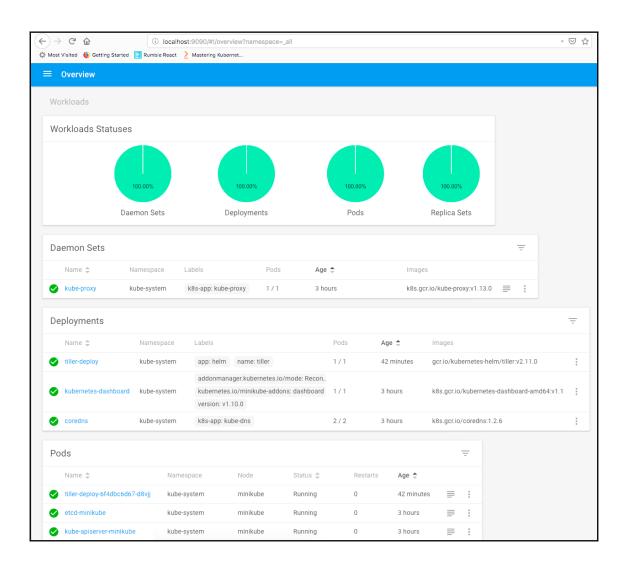
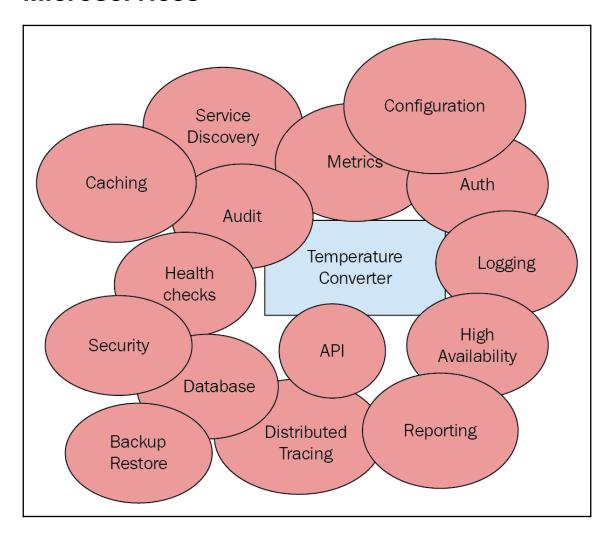
Chapter 1: Introduction to Kubernetes for Developers

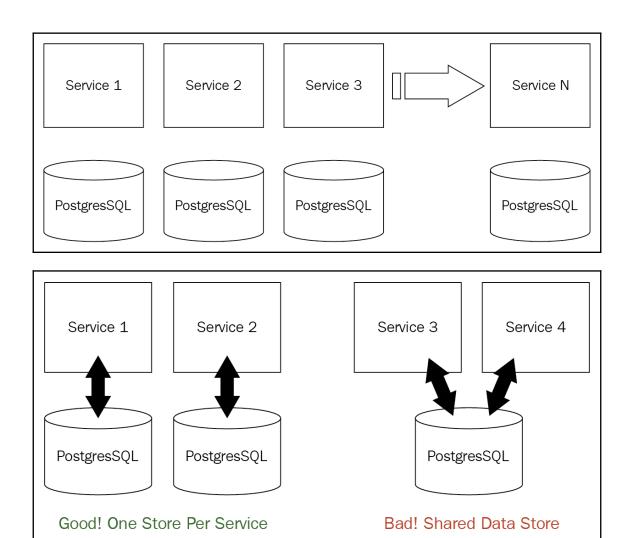


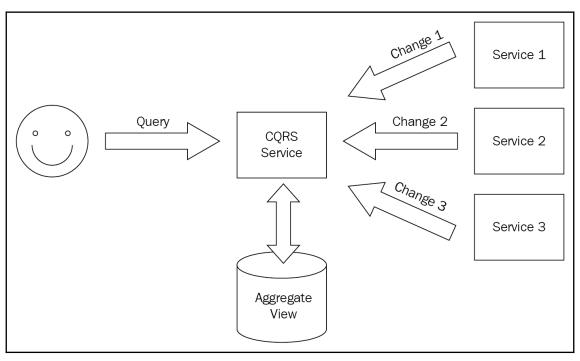


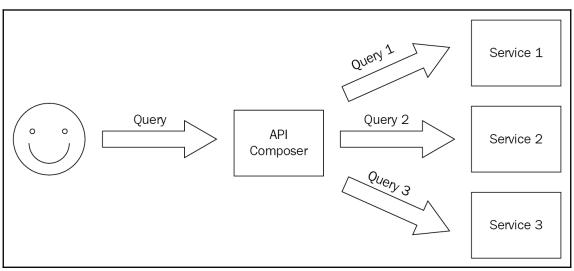


Chapter 2: Getting Started with Microservices

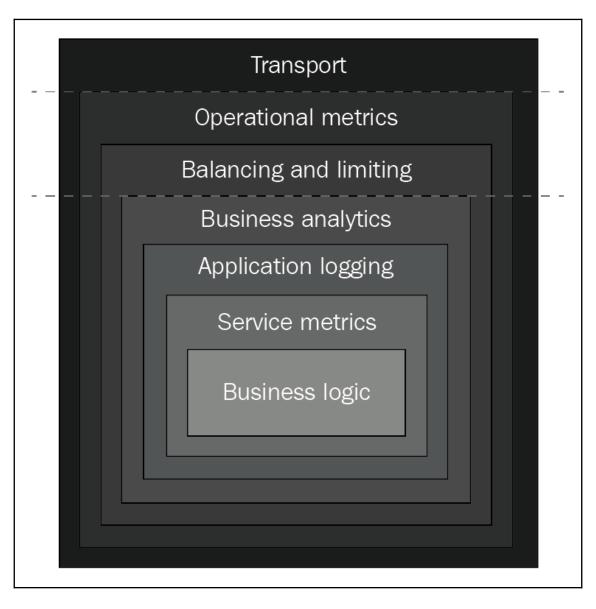




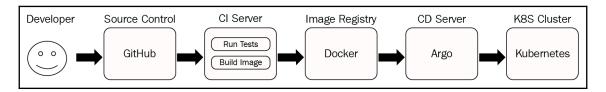




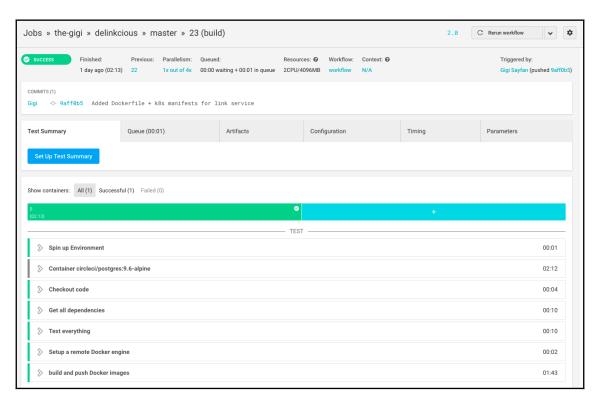
Chapter 3: Delinkcious - the Sample Application



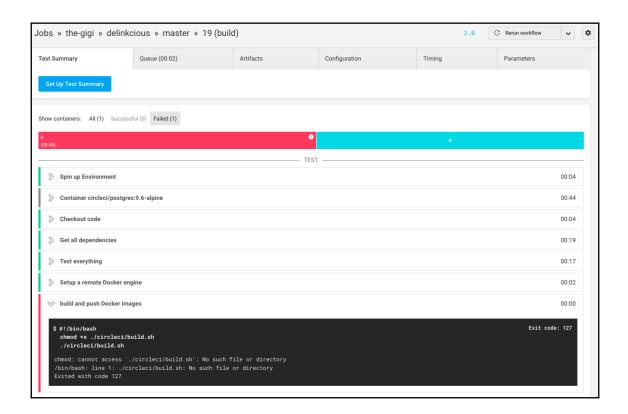
Chapter 4: Setting Up the CI/CD Pipeline

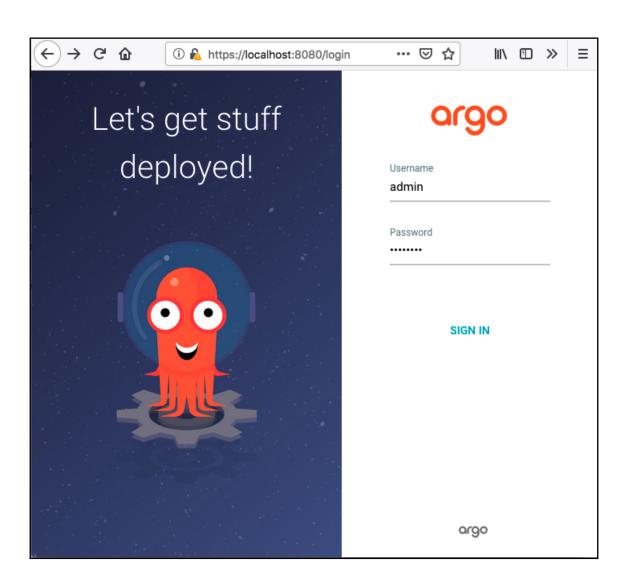


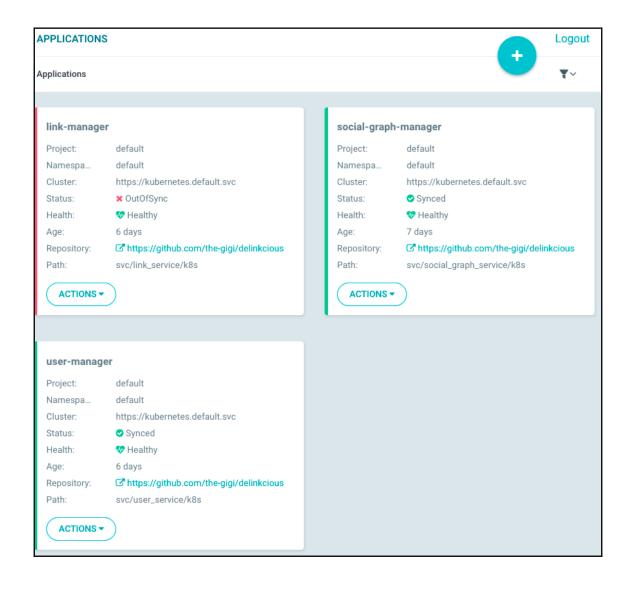


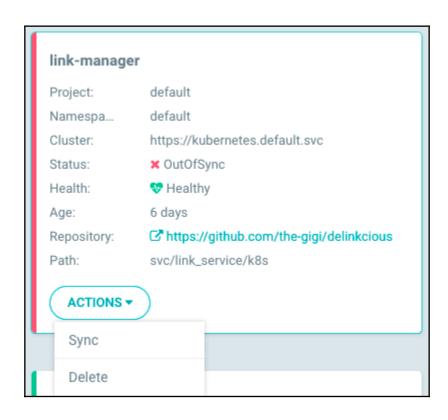


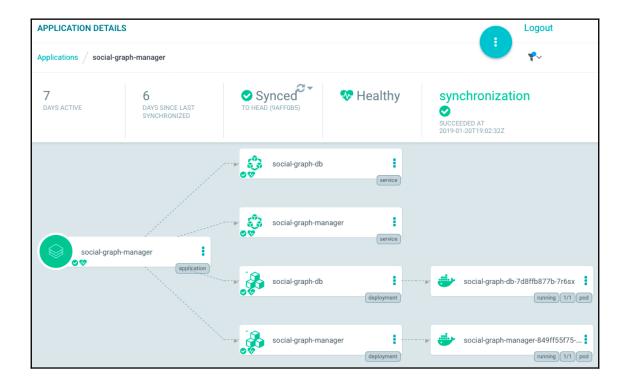








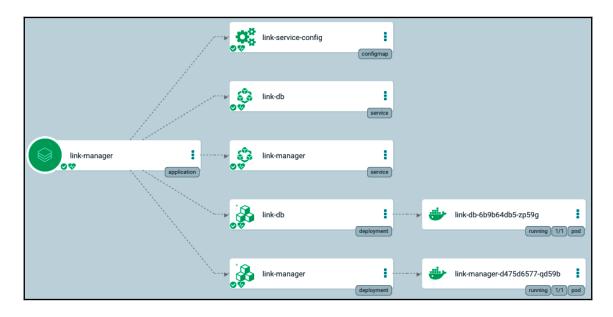




```
SUMMARY
                        EVENTS
  KIND
                                       Service
  NAME
                                       social-graph-manager
  NAMESPACE
                                       default
  TYPE
                                       ClusterIP
  HOSTNAMES
  STATUS
                                       Synced
                                       Healthy
  HEALTH
   DIFF
                     MANIFEST
{
  apiVersion: "v1",
  kind: "Service",
  metadata: {
              "labels": {
               "app.kubernetes.io/instance": "social-graph-manager"
             "name": "social-graph-manager"
           },
  spec: {
          "ports": [
           {
             "port": 9090
          "selector": {
           "app": "manager",
           "svc": "social-graph"
        }
}
```

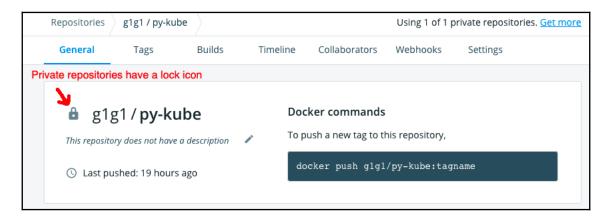
SUMMARY	EVENTS	LOGS	
CONTAINERS:	2019/01/27 (started 10.98.233.41 DB port: 5432
> SOCIAL-GRAPH-MANAGER	2017/01/27	JZ. 40.12 DISCONII	ig on pore sosoiii

Chapter 5: Configuring Microservices with Kubernetes

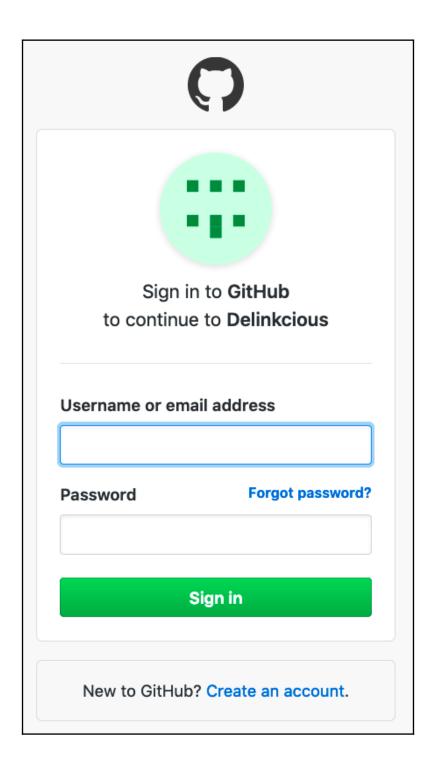


SUMMARY **EVENTS** KIND ConfigMap NAME link-service-config NAMESPACE default STATUS Synced HEALTH Healthy DIFF MANIFEST Hide default fields apiVersion: "v1", data: { "MAX_LINKS_PER_USER": "10", "PORT": "8080" }, kind: "ConfigMap", metadata: { "labels": { "app.kubernetes.io/instance": "link-manager" }, "name": "link-service-config", "namespace": "default" } }

Chapter 6: Securing Microservices on Kubernetes



Chapter 7: Talking to the World - APIs and Load Balancers





Authorize Delinkcious



Delinkcious by the-gigi

wants to access your the-liat account



Personal user data

Email addresses (read-only)

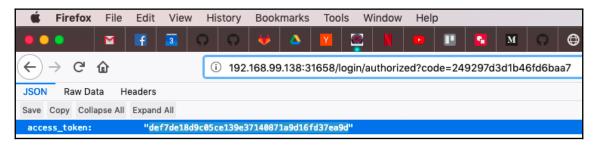


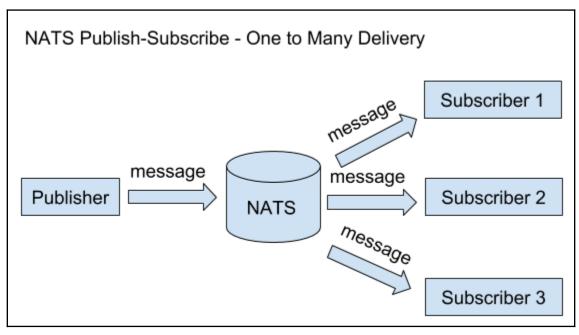
Authorize the-gigi

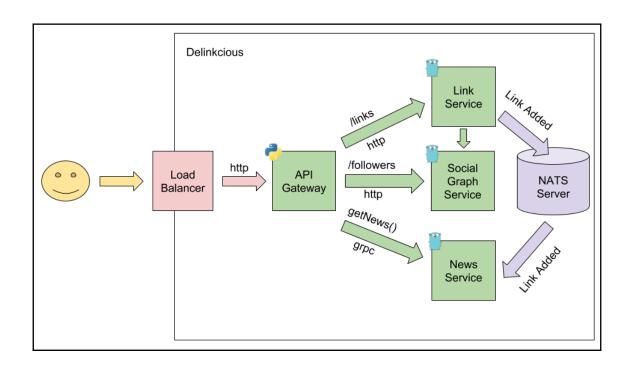
Authorizing will redirect to http://192.168.99.138:31658

- Not owned or operated by GitHub
- © Created 2 weeks ago
- Fewer than 10
 GitHub users

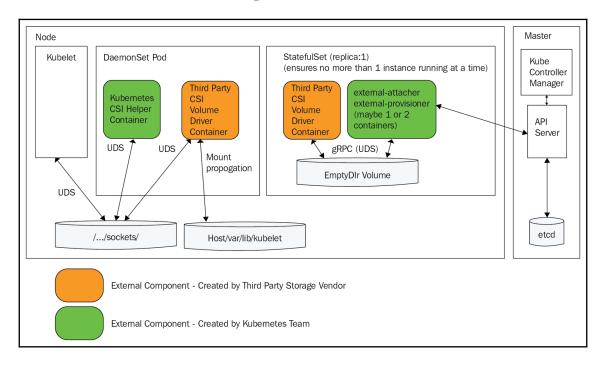
Learn more about OAuth

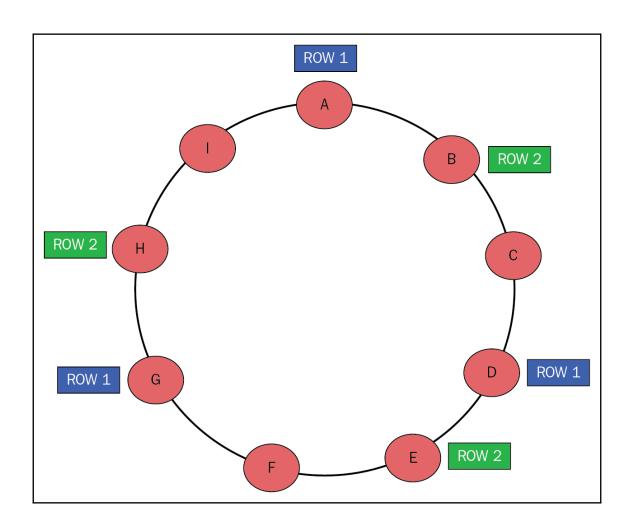




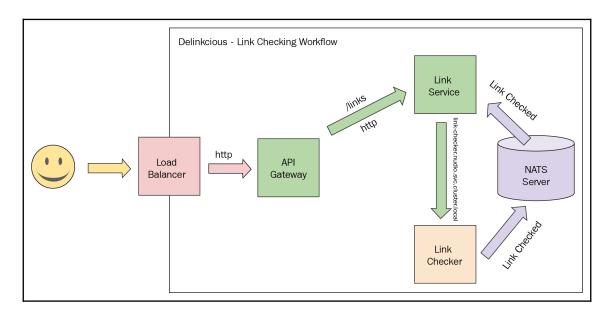


Chapter 8: Working with Stateful Services

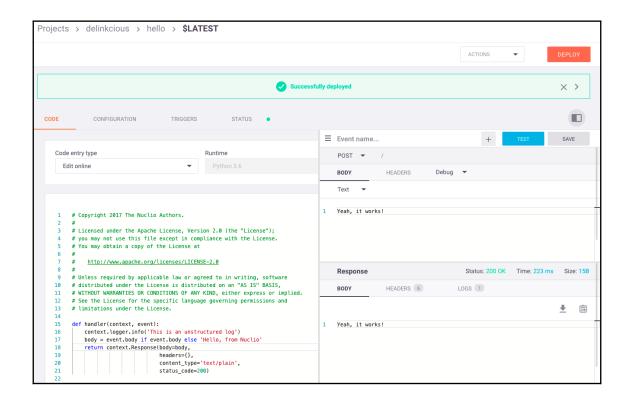




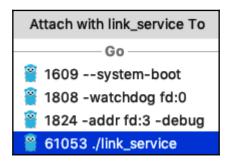
Chapter 9: Running Serverless Tasks on Kubernetes



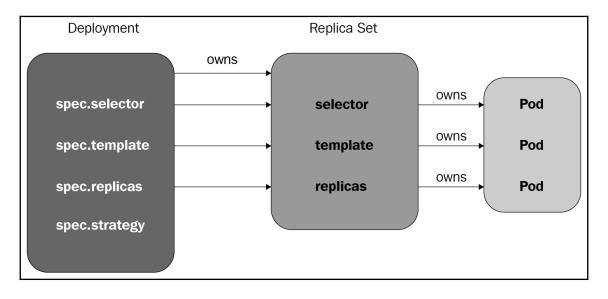


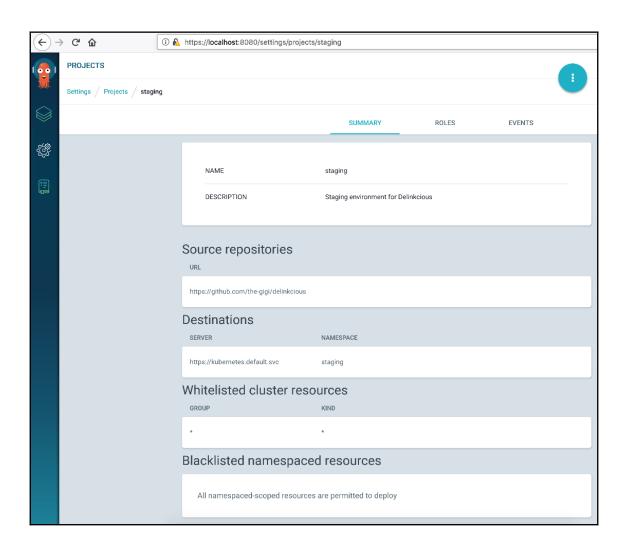


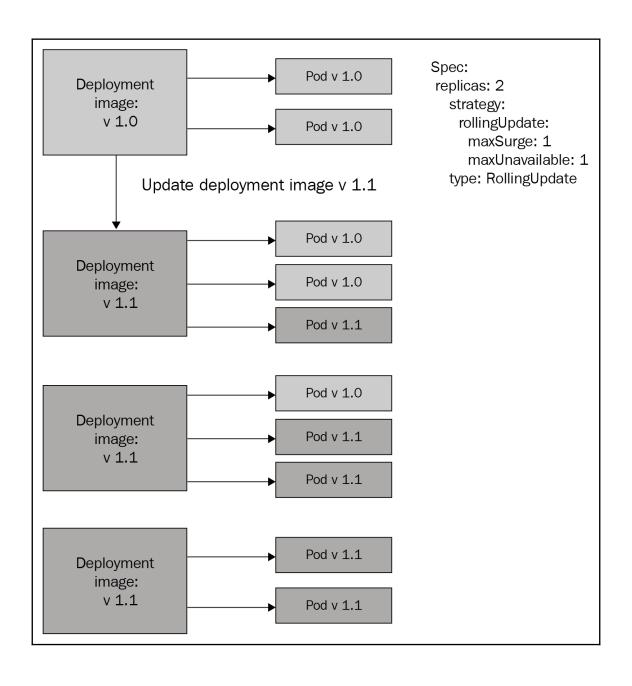
Chapter 10: Testing Microservices

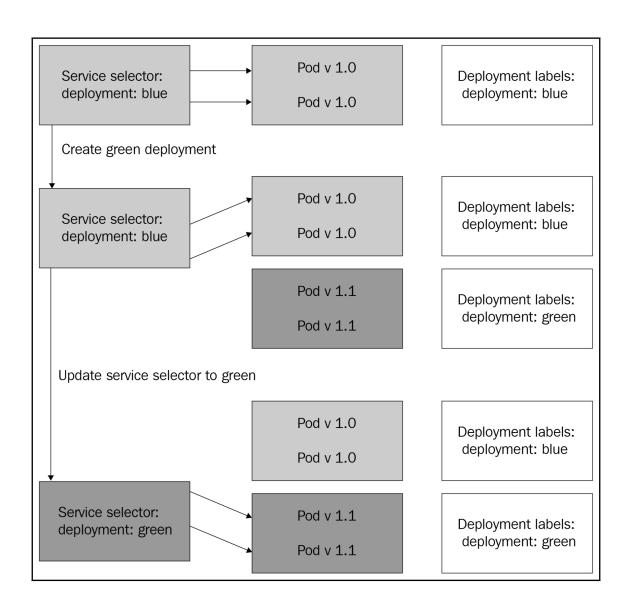


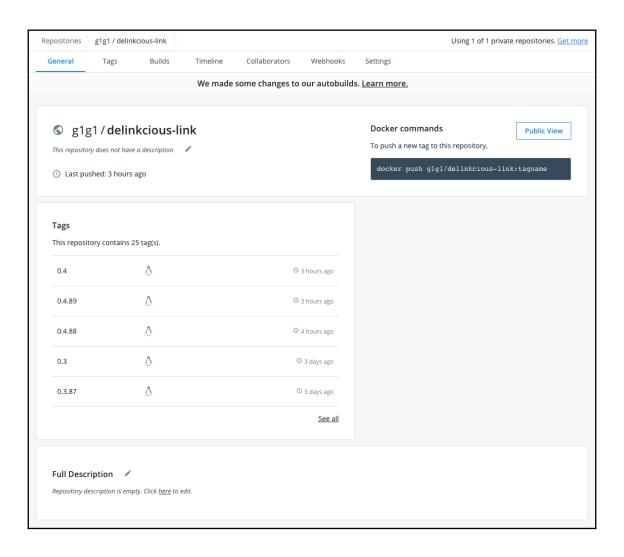
Chapter 11: Deploying Microservices

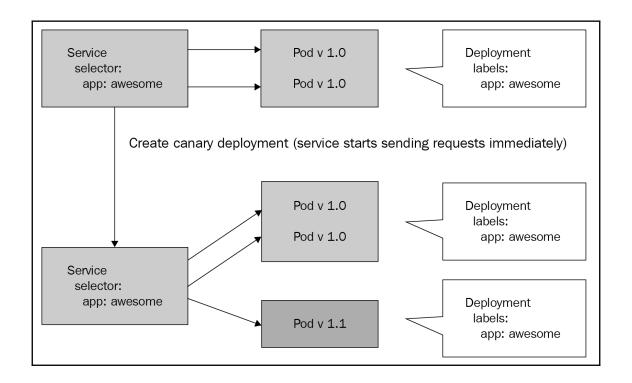


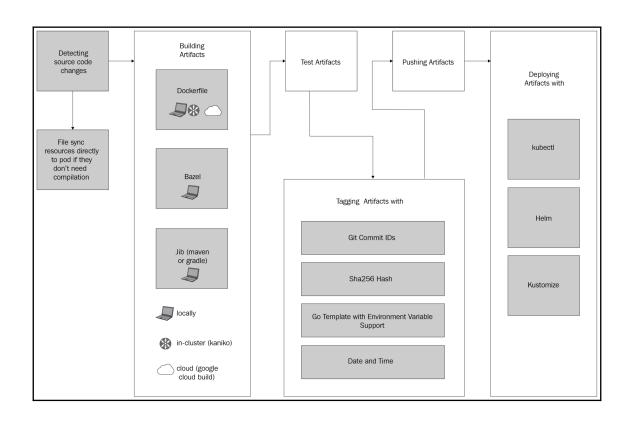












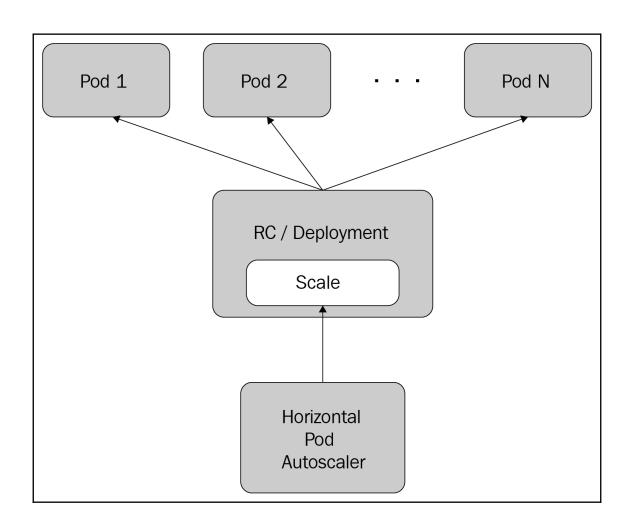
```
▶ • delinkcious-link ----- Running • OK (1m) 2m ago
 • link-db ----- Running • N/A
                                                              3m ago
 • k8s_yaml ----- N/A
                                                          3m ago
    k8sSecret-link-mutual-auth
    k8sServiceAccount-link-manager
    k8sConfigMap-link-manager-config
 • (Tiltfile) ----- N/A
                                                   3m ago
                  ----- (l) maximize log ↑ ----
STEP 2/3 - Pushing docker.io/glg1/delinkcious-link:tilt-5bf2f054446f5b3c
   ¦ Skipping push
STEP 3/3 - Deploying
   Parsing Kubernetes config YAML
   Applying via kubectl
   Step 1 - 76.731s
   Step 2 - 0.000s
   Step 3 - 1.165s
   Done in: 77.897s
delinkcious...! 2019/05/04 05:32:09 *** Listening on port 8080...
✓ OK
           Browse (\downarrow \uparrow), Expand (\Rightarrow) | (enter) log, (b)rowser | (ctrl-C) quit
```

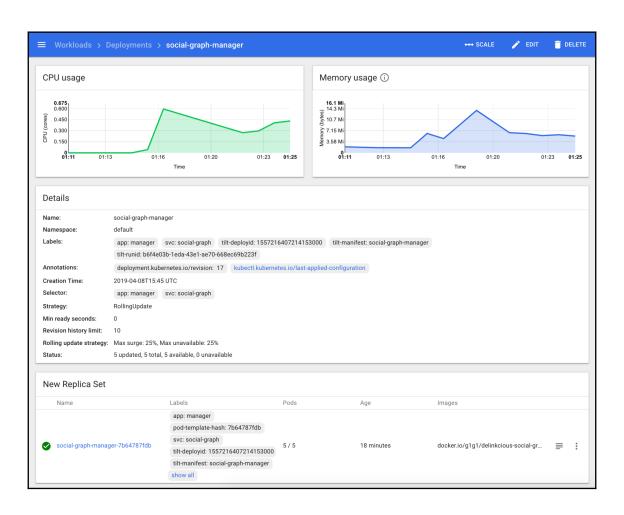
```
• (Tiltfile)
                                                                                       N/A
                                                                                                           3h ago
                                                                                                           3h ago
  • api-gateway
                                                                             Running OK
                                                                                                (3.8s) •
  • k8s_yaml
                                                                                       OK
                                                                                                (0.8s) •
                                                                                                           4h ago
      k8sSecret-github-creds
      k8sServiceAccount-api-gateway
      k8sConfigMap-api-gateway-config
1: ALL LOGS | 2: build log | 3: pod log
                                                                                                        X: expand
              * Serving Flask app "api_gateway_service.api" (lazy loading)
api-gateway
               * Environment: production
api-gateway
                 WARNING: Do not use the development server in a production environment.
api-gateway
api-gateway
                 Use a production WSGI server instead.
api-gateway
               * Debug mode: off
               * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
api-gateway
              172.17.0.1 - - [04/May/2019 20:35:50] "GET /v1/links HTTP/1.1" 200 -
api-gateway
 ✓ OK
                                              Browse (\downarrow \uparrow), Expand (\rightarrow) | (enter) log, (b) rowser | (ctrl-C) quit
 • (Tiltfile)
                                                                                       N/A
                                                                                                          13m ago
 api-gateway
                                                                             Running OK
                                                                                                (0.1s) •
                                                                                                           7m ago
 • k8s_yaml
                                                                                       OK
                                                                                                (4.6s) •
                                                                                                          13m ago
     k8sSecret-github-creds
     k8sServiceAccount-api-gateway
     k8sConfigMap-api-gateway-config
1: ALL LOGS 2: build log 3: pod log
                                                                                                        X: expand
   Rebuilding: api-gateway
 → Updating container...
Copying 1 file(s) to container: c94f8bed64
 '/Users/gigi.sayfan/git/delinkcious/svc/api_gateway_service/api_gateway_service/resources.py' -->
'/api_gateway_service/api_gateway_service/resources.py'
 → Container updated!
 √ ok
```

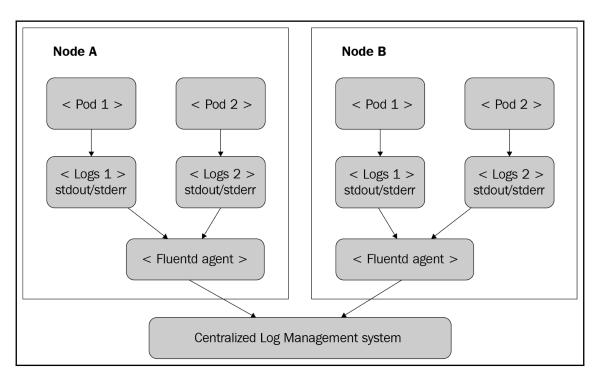
Browse $(\downarrow \uparrow)$, Expand (\rightarrow) | (enter) log, (b)rowser | (ctrl-C) quit

Chapter 12: Monitoring, Logging, and Metrics

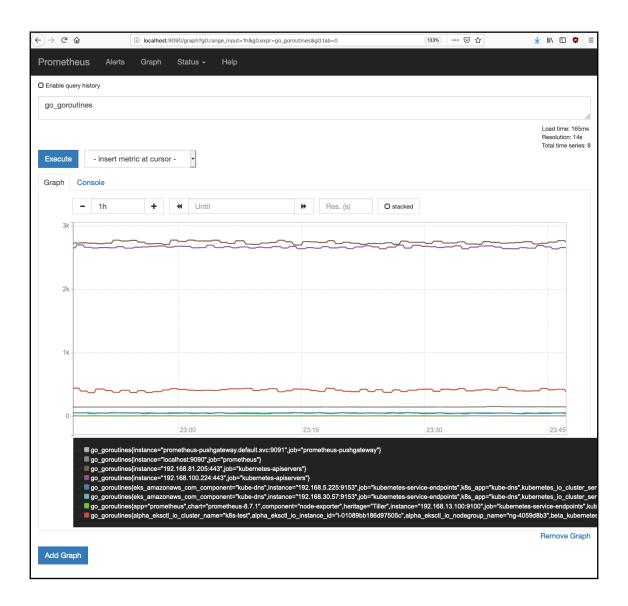
```
• (Tiltfile)
                                                                                                     N/A
                                                                                                                          5m ago
 api-gateway
                                                                                  CrashLoopBackOff • OK
                                                                                                             (2.3s) •
                                                                                                                          1m ago
   HISTORY: EDITED FILES run.py
EDITED FILES run.py
                                                                                                              (2.3s) •
(1.9s) •
                                                                                                     OK
                                                                                                                          1m ago
                                                                                                     OK
                                                                                                                          1m ago
   K8S POD: api-gateway-d756567d6-4jthc
                                                                                                          3 restarts • AGE 1m
       Traceback (most recent call last):
        File "run.py", line 14, in <module>
          raise RuntimeError('Failing on purpose to demonstrate CrashLoopBackOff')
       RuntimeError: Failing on purpose to demonstrate CrashLoopBackOff
                                                                                                               (3.8s) •
                                                                                                                          5m ago
     k8sSecret-github-creds
     k8sServiceAccount-api-gateway
      k8sConfigMap-api-gateway-config
1: ALL LOGS | 2: build log | 3: pod log
                                                                                                                       X: expand
              File "run.py", line 14, in <module>
raise RuntimeError('Failing on purpose to demonstrate CrashLoopBackOff')
api-gateway
             RuntimeError: Failing on purpose to demonstrate CrashLoopBackOff
api-gateway
api-gateway
              Traceback (most recent call last):
              File "run.py", line 14, in <module>
api-gateway
api-gateway
                 raise RuntimeError('Failing on purpose to demonstrate CrashLoopBackOff')
api-gateway RuntimeError: Failing on purpose to demonstrate CrashLoopBackOff
# 1 error
```

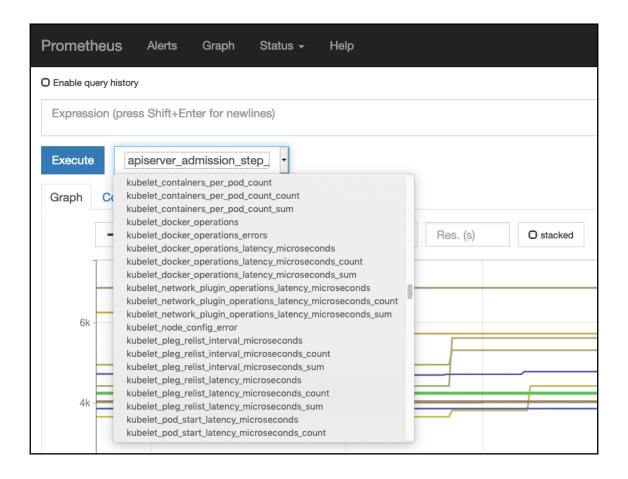


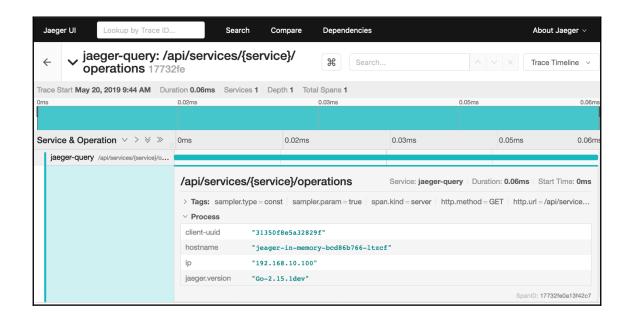




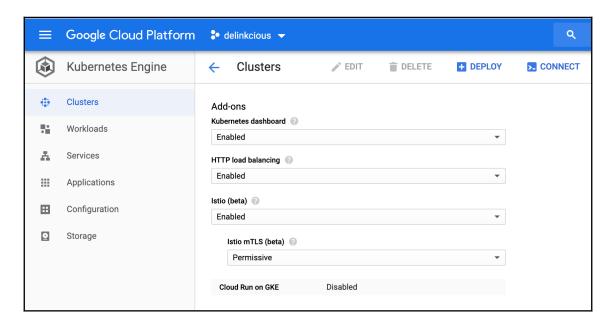


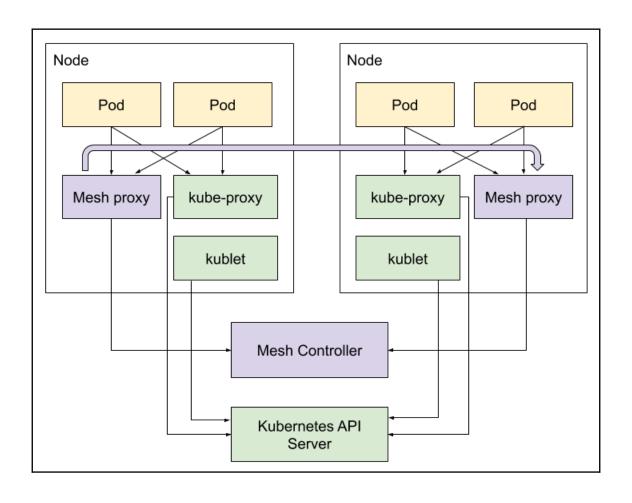


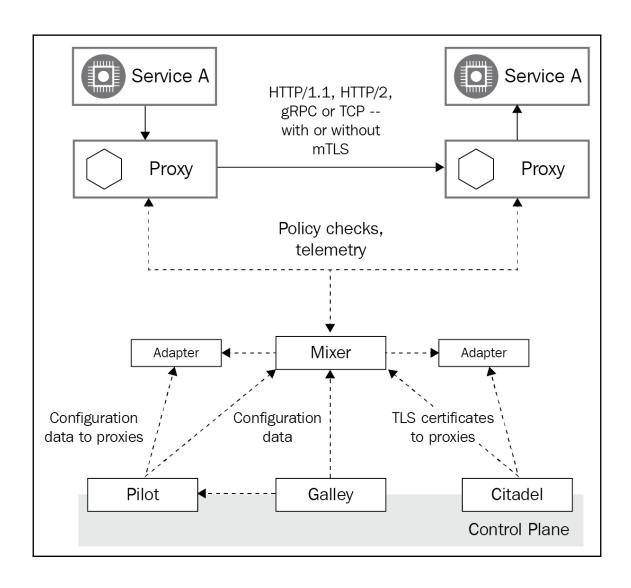


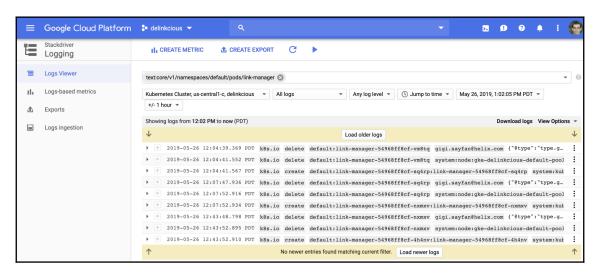


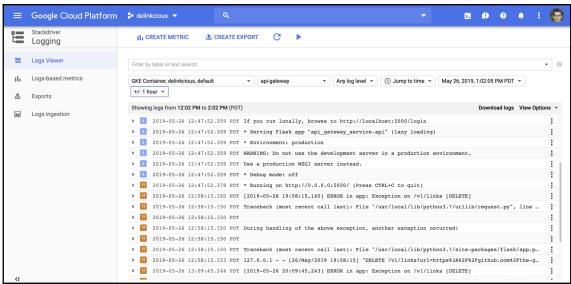
Chapter 13: Service Mesh - Working with Istio

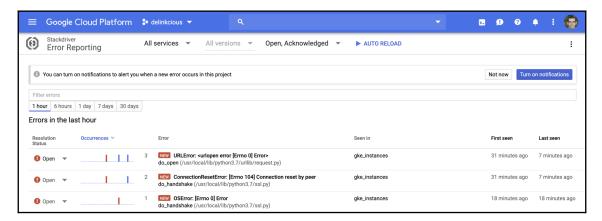


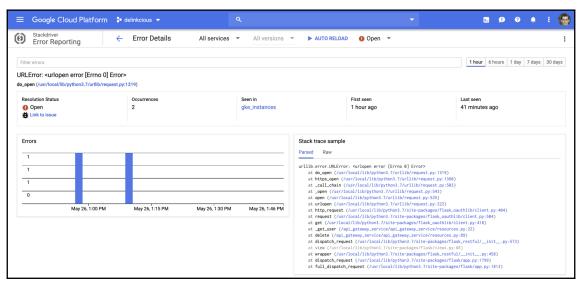












Chapter 14: The Future of Microservices and Kubernetes

