# HW_4_solution

I've configured ingress:

```yaml
1    apiVersion: networking.k8s.io/v1
2    kind: Ingress
3    metadata:
4      name: my-ingress
5      namespace: {{ .Values.namespace_name }}
6      annotations:
7        nginx.ingress.kubernetes.io/use-regex: "true"
8        nginx.ingress.kubernetes.io/rewrite-target: /$1
9    spec:
10     ingressClassName: nginx
11     rules:
12       - http:
13           paths:
14             - path: /api/resource-service/(.*)
15               pathType: Prefix
16               backend:
17                 service:
18                   name: resource-service
19                   port:
20                     number: 8080
```

so it routes `http://<INGRESS_IP_ADDRESS>/api/resource-service/…` traffic to `resource-service:8080/…`.

And installed ingress nginx controller:

```
[robertgazizov@MacBook-Air-Robert helm-chart % kubectl get pod -n ingress-nginx
NAME                                        READY    STATUS      RESTARTS    AGE
ingress-nginx-admission-create-mrcxl        0/1      Completed   0           2m39s
ingress-nginx-admission-patch-m7mzg         0/1      Completed   1           2m39s
ingress-nginx-controller-7799c6795f-628lc   1/1      Running     0           2m39s
[robertgazizov@MacBook-Air-Robert helm-chart % kubectl get ingress -n my
NAME          CLASS    HOSTS    ADDRESS         PORTS    AGE
my-ingress    nginx    *        192.168.49.2    80       119s
```
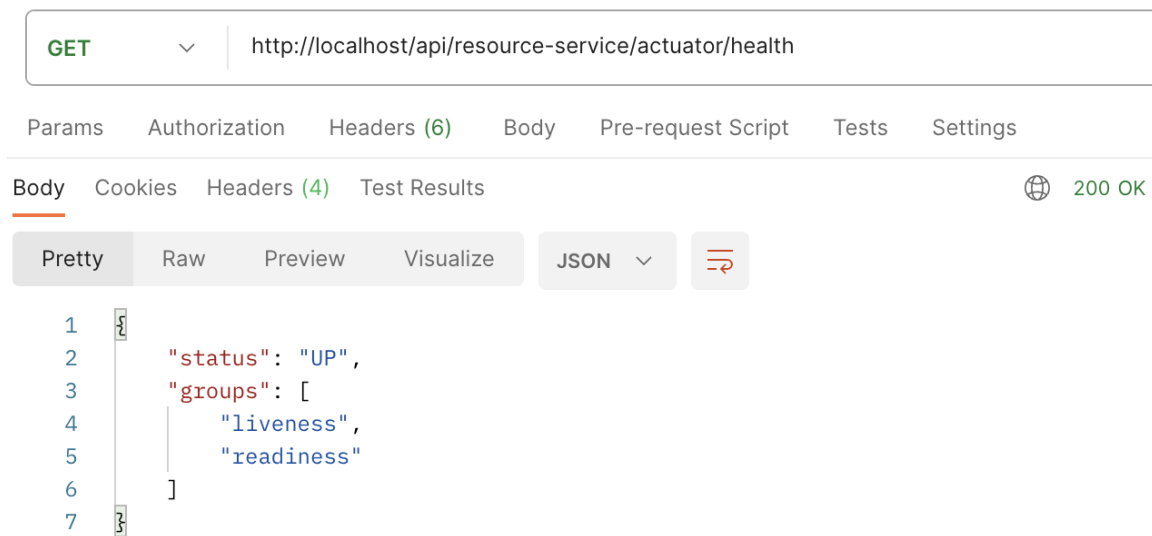
Then I opened minikube tunnel so I am able to access ingress through the localhost:

```
[robertgazizov@MacBook-Air-Robert helm-chart % sudo minikube tunnel
[Password:
✅  Tunnel successfully started

📌  NOTE: Please do not close this terminal as this process must stay alive for the tunnel to be accessible ...

❗  The service/ingress my-ingress requires privileged ports to be exposed: [80 443]
🔑  sudo permission will be asked for it.
🏃  Starting tunnel for service my-ingress.
▌
```

As a result, I am able to reach the resource-service with new URL structure:

| GET | ∨ | http://localhost/api/resource-service/actuator/health |
|-----|---|-------------------------------------------------------|

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings

Body   Cookies   Headers (4)   Test Results                               🌐  200 OK

| Pretty | Raw | Preview | Visualize | JSON ∨ | ⇄ |

```
1   {
2       "status": "UP",
3       "groups": [
4           "liveness",
5           "readiness"
6       ]
7   }
```

and interact with API:

POST ⌄ | http://localhost/api/resource-service/resources

Params   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings

Body   Cookies   Headers (4)   Test Results                              ⊕   200 OK

Pretty   Raw   Preview   Visualize   JSON ⌄   ⇄

```
1  {
2      "id": 4
3  }
```