

# Route Not Found Troubleshooting

## Initial Issue

```
- (0.048s)
curl 192.168.106.157:32080/a1mediator/A1-P/v2/policytypes/
{
  "message": "no Route matched with those values",
  "request_id": "684a173e87c1b41e1d7c8856567f236c"
}
```

Cannot access the machine pod from outside the server.

This problem is caused by the built in kong that is included with the RIC Installation inside namespace ricplt.

```
kubectl get svc -n ricplt
```

Output:

```

:
:
r4-infrastructure-kong-manager      NodePort      10.99.249.248    <none>      8002:32003/TCP,8445:31632/TCP    9d
r4-infrastructure-kong-proxy      LoadBalancer  10.104.222.44    <pending>   80:32080/TCP,443:32443/TCP      9d
:
:
```

Problems:

- The proxy route is not working
- The kong manager web dashboard is not responsive

## Solution

Installing new kong in docker container, outside ricplt.

Run the [instalation script](#) provided

```
cd kong-setup/
```

Output:

```

• Deploying Kong Gateway to Docker...
i Debugging info logged to:
  /tmp/kong/quickstart/kong-quickstart.log
[+] Downloading Docker images... ✓
[+] Destroying previous kong-quickstart containers... ✓
[+] Starting database... ✓
[+] Starting Kong Gateway... ✓
[+] Validating kong state... ✓

🟢 Kong Gateway Ready 🟢

=====

✂                               Using Kong Gateway
=====

• Kong Gateway Data Plane endpoints:
  HTTP  = http://localhost:8000
  HTTPS = https://localhost:8443

• This script has written an environment file you can
  source to make connecting to Kong Gateway easier.
  Run this command to source these variables into your
  environment:

→ source /tmp/kong/quickstart/kong.env

• Now you can make requests to your Kong Gateway using
  variables from the file, for example:

→ curl -s $KONG_PROXY/mock

=====

✂                               Administer Kong Gateway
=====

• Kong Gateway Admin API endpoint:
  HTTP = http://localhost:8001

• To administer the gateway with curl:

→ curl -s https://localhost:8001

• To stop the gateway run:

→ curl -s https://get.konghq.com/quickstart | \
  bash -s -- -d -a kong-quickstart

Or remove the Docker container directly.

```

## Verifying Testing the newly installed kong

### Verify Docker container

```
docker ps -a
```

Output:

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
df8b68a17bd5	kong/kong-gateway:3.7.0.0	"/entrypoint.sh kong..."	About a minute ago	Up About a minute (healthy)	0.0.0.0:8000-8443/tcp
da77a869bc95	postgres:13	"docker-entrypoint.s..."	About a minute ago	Up About a minute	5432/tcp

## Verify the kong is running

```
curl --head localhost:8001
```

Output:

```
HTTP/1.1 200 OK
Date: Thu, 18 Jul 2024 01:54:26 GMT
Content-Type: application/json; charset=utf-8
Connection: keep-alive
Access-Control-Allow-Origin: *
X-Kong-Admin-Request-ID: 97fbe95dc76f0123958cf2242b3bef34
Content-Length: 20990
X-Kong-Admin-Latency: 241
Server: kong/3.7.0.0-enterprise-edition
```

## Configuring the proxy and route

### Create gateway proxy

```
#Create proxy that links to a1mediator service in http://10.96.102.138:10000
curl -i -X POST http://localhost:8001/services/ \
> --data name=a1mediator-service \
> --data url=http://10.96.102.138:10000
```

Output:

```
HTTP/1.1 201 Created
Date: Thu, 18 Jul 2024 02:05:24 GMT
Content-Type: application/json; charset=utf-8
Connection: keep-alive
Access-Control-Allow-Origin: *
X-Kong-Admin-Request-ID: b4fb24165636582f8866585f0128ae0a
Content-Length: 384
X-Kong-Admin-Latency: 17
Server: kong/3.7.0.0-enterprise-edition

{"connect_timeout":60000,"path":null,"id":"b58a0be9-5964-4b8d-a287-de8a47db575d","tls_verify":null,"tls_verify_depth":null,"ca_certi
```

### Create Route

```
#Create route that access that newly created proxy that can be accessed from localhost:8000/a1mediator
curl -i -X POST http://localhost:8001/services/a1mediator-service/routes \
> --data 'paths[]=/a1mediator'
```

Output:

```
HTTP/1.1 201 Created
Date: Thu, 18 Jul 2024 02:05:30 GMT
Content-Type: application/json; charset=utf-8
Connection: keep-alive
Access-Control-Allow-Origin: *
X-Kong-Admin-Request-ID: 6949b55e48b749283dda6174f5fd282e
Content-Length: 480
X-Kong-Admin-Latency: 19
Server: kong/3.7.0.0-enterprise-edition

{"hosts":null,"paths":["/a1mediator"],"request_buffering":true,"response_buffering":true,"snis":null,"tags":null,"created_at":172126
```

## The newly configured kong

```
#Using A1-P healthcheck API here
curl -i -X GET http://localhost:8000/a1mediator/A1-P/v2/healthcheck
```

Output:

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: keep-alive
Date: Thu, 18 Jul 2024 02:06:05 GMT
X-Kong-Upstream-Latency: 1
X-Kong-Proxy-Latency: 2
Via: kong/3.7.0-enterprise-edition
X-Kong-Request-Id: b5913904e93e7e3498744b253612da1d
```

If the response is 200 OK, it means the kong proxy is already running correctly/