

Kauno technologijos universitetas Informatikos fakultetas

Laboratorinis darbas Nr. 2

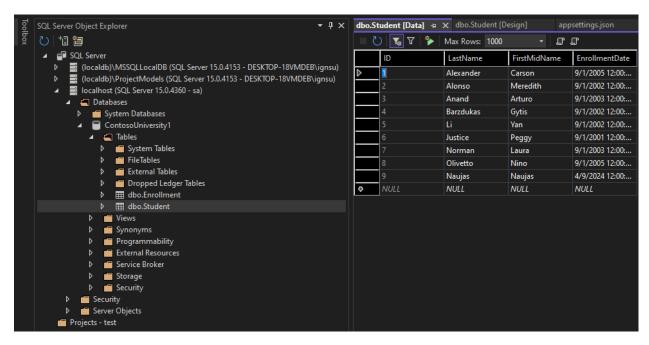
P175B120 Paslaugų programavimas debesų kompiuterijoje

Arnas Bradauskas Studentas Doc. Vytautas Pilkauskas Dėstytojas

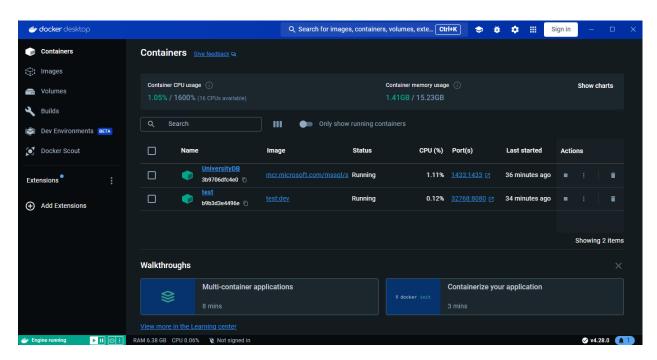
Turinys

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1 Pirma dalis



1 pav. Matomi rezultatai duombazėje, su nauju įterptu objektu.



2 pav. Vaizdas Docker Desktop.

```
Curl
curl -X 'POST' \
   'http://localhost:32768/api/Students' \
   -H 'accept: text/plain' \
   -H 'Content-Type: application/json' \
   -d '{
   "id": 0,
   "lastName": "Naujas",
   "firstMidName": "Naujas",
   "enrollmentDate": "2024-04-09",
   "enrollments": [ ]
Request URL
 http://localhost:32768/api/Students
Server response
             Details
Code
201
             Response body
Undocumented
                "id": 9,
                "lastName": "Naujas",
                "firstMidName": "Naujas",
                "enrollmentDate": "2024-04-09T00:00:00",
                "enrollments": []
             Response headers
               content-type: application/json; charset=utf-8
               date: Tue,09 Apr 2024 18:44:20 GMT
               location: http://localhost:32768/api/Students/9
               server: Kestrel
               transfer-encoding: chunked
```

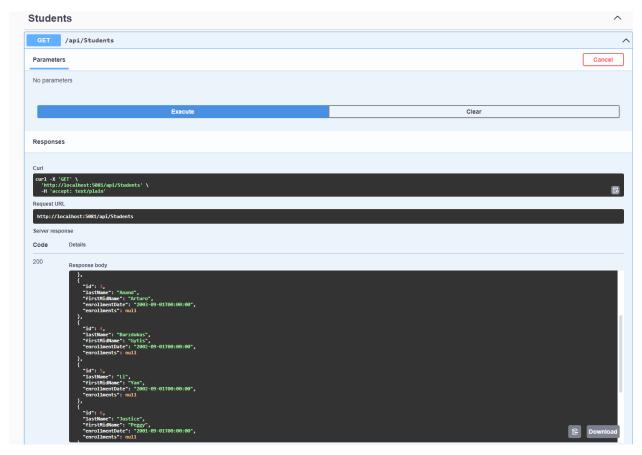
3 pav. Sėkmingas naujo elemento įterpimas.

4 pav. Programos nustatymai, ConnectionString.

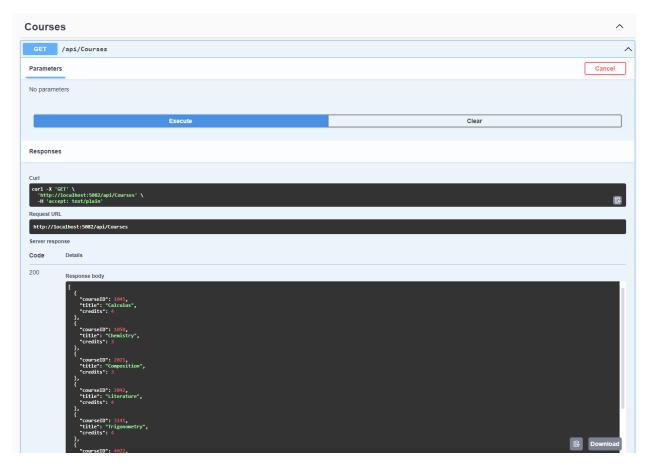
```
"Name": "bridge",
"Id": "ac1e76a71bcc2d31562331bf8d2e13f2ff176acd5eb18c28b7efae709f59a968",
"Created": "2024-04-09T17:57:55.361831414Z",
"Scope": "local",
"Driver": "bridge"
"EnableIPv6": false,
"IPAM": {
     "Driver": "default",
     "Options": null,
     "Config": [
         {
              "Subnet": "172.17.0.0/16",
              "Gateway": "172.17.0.1"
         }
     ]
"Internal": false,
"Attachable": false,
"Ingress": false,
"ConfigFrom": {
     "Network": ""
"ConfigOnly": false,
"Containers": {
     "3b9706dfc4e0ca2417a95bfa07305c4262397f4fe9df5d9cefd61590c0355527": {
         "Name": "UniversityDB",
         "EndpointID": "9cc690d39c81211b6f48057c88c9c43d3b4507c52680c9051e9049eded181236", "MacAddress": "02:42:ac:11:00:02",
         "IPv4Address": "172.17.0.2/16",
         "IPv6Address": ""
     },
"b9b3d3e4496e533335b2fcea633538ca4aaf8c172a800f9e2611318c19d87736": {
         "Name": "test",
"EndpointID": "df6c22d9b84fdcaff76ef90db2ae2d867f447ecc9ba33cccb2c2b5d16802ebb6",
"MacAddress": "02:42:ac:11:00:03",
         "IPv4Address": "172.17.0.3/16",
         "IPv6Address": ""
},
"Options": {
     "com.docker.network.bridge.default_bridge": "true",
     "com.docker.network.bridge.enable_icc": "true",
"com.docker.network.bridge.enable_ip_masquerade": "true",
     "com.docker.network.bridge.host_binding_ipv4": "0.0.0.0",
     "com.docker.network.bridge.name": "docker0",
     "com.docker.network.driver.mtu": "1500"
},
"Labels": {}
```

5 pav. Konteinerių adresai.

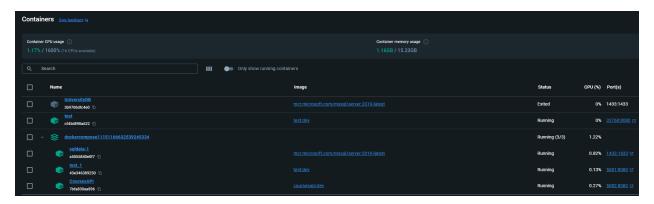
2 Antra dalis



6 pav. Sėkminga užklausa į Studentų API (Port=5081).



7 pav. Sėkminga užklausa į Kursų API (Port=5082).



8 pav. Vaizdas Docker Desktop.

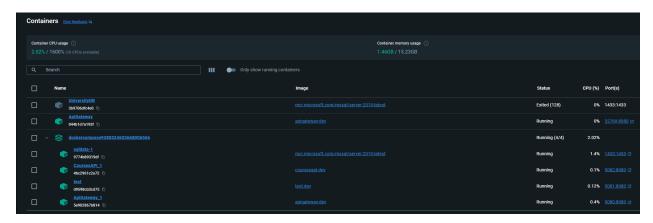
```
version: '3.4'

version: '4.4'

- ASPNETCOBE_ENVIRONMENT=Development
- ASPNETCOBE_ENVIRONMENT=Deve
```

9 pav. Vaizdas Docker Compose faile.

3 Trečia dalis

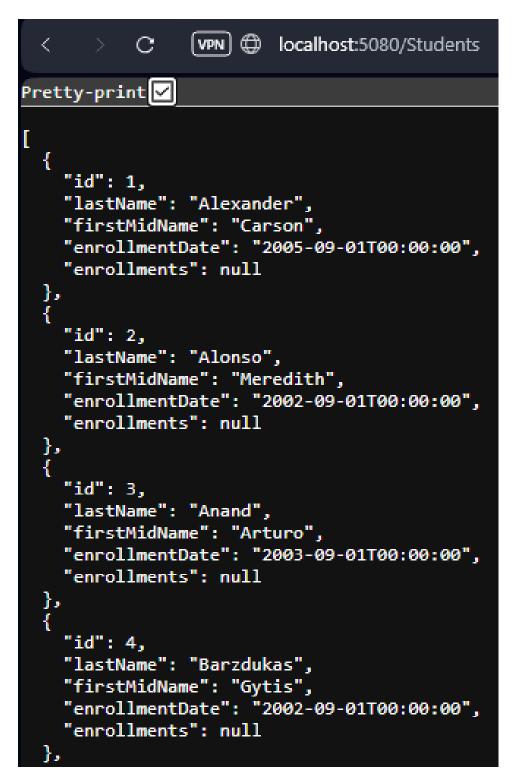


10 pav. Vaizdas Docker Desktop.

```
version: '3.4'
     vservices:
         test:
           image: ${DOCKER_REGISTRY-}test
           build:
 6
             context: .
             dockerfile: Lab2University/StudentsAPI/Dockerfile
 8
           depends_on:
           - sqldata
10
11
12
13
         coursesapi:
           image: ${DOCKER_REGISTRY-}coursesapi
14
          build:
15
16
             context: .
             dockerfile: Lab2University/CoursesAPI/Dockerfile
17
18
           depends_on:
             - sqldata
19
         sqldata:
20
          image: mcr.microsoft.com/mssql/server:2019-latest
21
22
         apigateway:
           image: ${DOCKER_REGISTRY-}apigateway
23
24
           build:
           context: .
25
             dockerfile: Lab2University/ApiGateway/Dockerfile
26
27
28
```

11 pav. Docker Compose.

12 pav. Courses/id request.



13 pav. Students request.

4 Ketvirta dalis

Neatlikta