



Kauno technologijos universitetas

Informatikos fakultetas

P175B120 Paslaugų programavimas debesų kompiuterijoje

Laboratorinis darbas Nr. 1

Nedas Liaudanskis IFF-1/9

Studentas

dėst. Pilkauskas Vytautas

Dėstytojas

Turinys

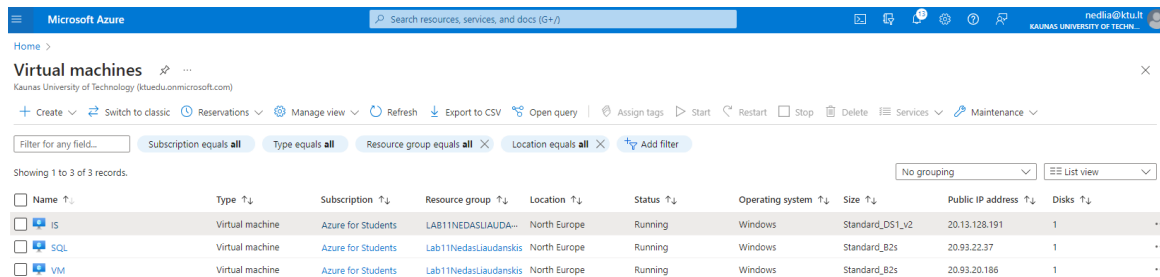
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Lab 1.1 Dalis

[Pav. 1]. Galime matyti „Microsoft Azure“ 1.1 daliai sukurtas virtualias mašinas. VM mašina skirta kontroliuoti domain, IS mašina skirta WEB serveriui ir SQL mašina skirta SQL serveriui palaikyti.

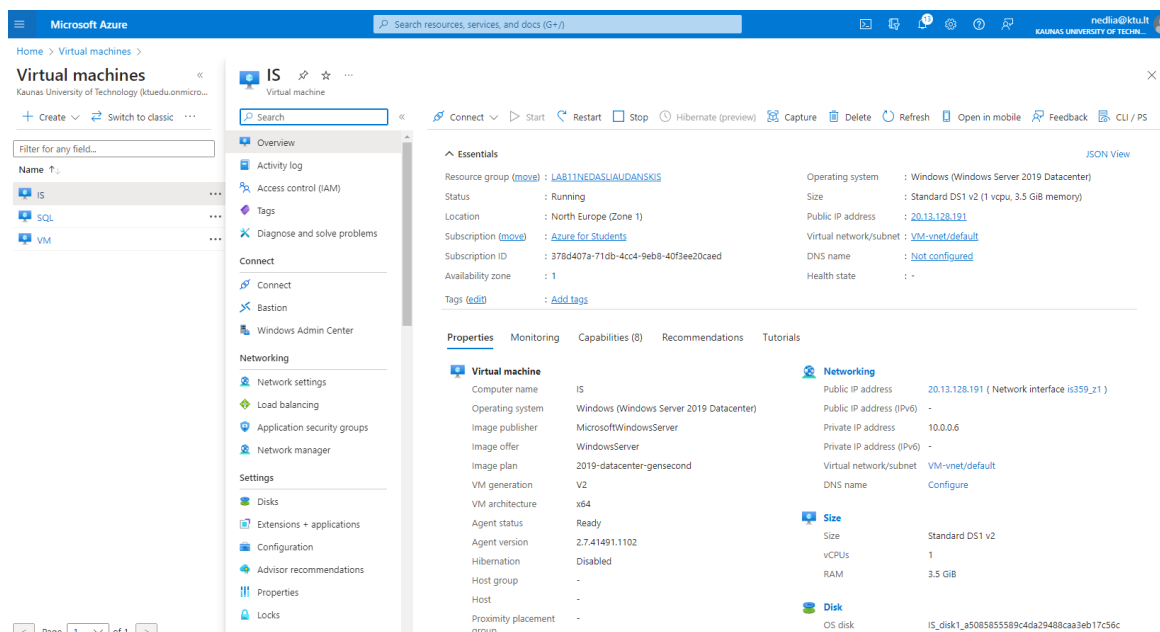


The screenshot shows the Microsoft Azure portal interface. At the top, there's a search bar and navigation icons. Below the header, the 'Virtual machines' section is active, displaying a list of VMs. The table has columns for Name, Type, Subscription, Resource group, Location, Status, Operating system, Size, Public IP address, and Disks. Three VMs are listed: 'IS', 'SQL', and 'VM', all running on Windows with Standard_DS1_v2, Standard_B2s, and Standard_B2s sizes respectively.

Name	Type	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks
IS	Virtual machine	Azure for Students	LAB11NEDASLIAUDANSKIS	North Europe	Running	Windows	Standard_DS1_v2	20.13.128.191	1
SQL	Virtual machine	Azure for Students	Lab11NedasLiaudanskis	North Europe	Running	Windows	Standard_B2s	20.93.22.37	1
VM	Virtual machine	Azure for Students	Lab11NedasLiaudanskis	North Europe	Running	Windows	Standard_B2s	20.93.20.186	1

pav. 1 Azure portale sukurtos VM

[Pav. 2] Galime matyti IS virtualios mašinos parametrus. IS mašinos public IP adress: 20.13.128.191.



The screenshot shows the details page for the 'IS' virtual machine in the Microsoft Azure portal. The left sidebar contains navigation options like Overview, Activity log, Access control, Tags, and Diagnose. The main area is divided into 'Essentials' and 'Properties' sections. The 'Essentials' section shows key details like Resource group, Status, Location, Subscription, and Availability zone. The 'Properties' section is further divided into 'Virtual machine' and 'Networking' details, including Operating system, Image publisher, VM generation, and Network settings.

Essentials	
Resource group	LAB11NEDASLIAUDANSKIS
Status	Running
Location	North Europe (Zone 1)
Subscription	Azure for Students
Subscription ID	378d407a-71db-4cc4-9eb8-40f3ee20caed
Availability zone	1
Tags	Add tags

Virtual machine	
Computer name	IS
Operating system	Windows (Windows Server 2019 Datacenter)
Image publisher	MicrosoftWindowsServer
Image offer	WindowsServer
Image plan	2019-datacenter-gensecond
VM generation	V2
VM architecture	x64
Agent status	Ready
Agent version	2.7.41491.1102
Hibernation	Disabled
Host group	-
Host	-
Proximity placement group	-

Networking	
Public IP address	20.13.128.191 (Network interface is359_1)
Public IP address (IPv6)	-
Private IP address	10.0.0.6
Private IP address (IPv6)	-
Virtual network/subnet	VM-vnet/default
DNS name	Configure

Size	
Size	Standard DS1 v2
vCPUs	1
RAM	3.5 GiB

Disk	
OS disk	IS_disk1_a5085855589c4da29408caa3eb17c56c

pav. 2 IS Virtualios mašinos parametrai

[Pav. 3]. Galime matyti SQL virtualios mašinos parametrus. Public IP adress: 20.93.22.37.

Microsoft Azure

Home > Virtual machines >

Virtual machines

Kaunas University of Technology (ktuedu.onmicro...)

+ Create Switch to classic

Filter for any field...

Name ↑

IS

SQL

VM

Search

Connect Start Restart Stop Hibernate (preview) Capture Delete Refresh Open in mobile Feedback CLI / PS

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Connect

Bastion

Windows Admin Center

Networking

Network settings

Load balancing

Application security groups

Network manager

Settings

Disks

Extensions + applications

Configuration

Advisor recommendations

Properties

Locks

Availability + scale

Essentials

Resource group (move) : Lab11NedasiJaudanskis

Status : Running

Location : North Europe (Zone 1)

Subscription ID : 378d407a-71db-4cc4-9eb8-40f9ee20caed

Availability zone : 1

Tags (edit) : Add tags

Operating system : Windows (Windows Server 2019 Datacenter)

Size : Standard B2s (2 vcpus, 4 GiB memory)

Public IP address : 20.93.22.37

Private IP address : 10.0.0.5

Virtual network/subnet : VM-vnet/default

DNS name : Not configured

Health state : -

JSON View

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name : SQL

Operating system : Windows (Windows Server 2019 Datacenter)

Image publisher : MicrosoftWindowsServer

Image offer : WindowsServer

Image plan : 2019-datacenter-gensecond

VM generation : V2

VM architecture : x64

Agent status : Ready

Agent version : 2.7.41491.1102

Hibernation : Disabled

Host group : -

Host : -

Proximity placement group : -

Colocation status : N/A

Networking

Public IP address : 20.93.22.37 (Network interface sql579_x1)

Public IP address (IPv6) : -

Private IP address : 10.0.0.5

Private IP address (IPv6) : -

Virtual network/subnet : VM-vnet/default

DNS name : Configure

Size

Size : Standard B2s

vCPUs : 2

RAM : 4 GiB

Disk

OS disk : SQL_OsDisk_1_1c1f00d90c8648cf9bb3c61650cbb43

Encryption at host : Disabled

pav. 3 SQL virtualios mašinos parametrai

[Pav. 4]. Galime matyti VM virtualios mašinos parametrus. Public IP adress: 20.93.20.186.

Microsoft Azure

Home > Virtual machines >

Virtual machines

Kaunas University of Technology (ktuedu.onmicro...)

+ Create Switch to classic

Filter for any field...

Name ↑

IS

SQL

VM

Search

Connect Start Restart Stop Hibernate (preview) Capture Delete Refresh Open in mobile Feedback CLI / PS

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Connect

Bastion

Windows Admin Center

Networking

Network settings

Load balancing

Application security groups

Network manager

Settings

Disks

Extensions + applications

Configuration

Advisor recommendations

Properties

Locks

Availability + scale

Essentials

Resource group (move) : Lab11NedasiJaudanskis

Status : Running

Location : North Europe (Zone 1)

Subscription ID : 378d407a-71db-4cc4-9eb8-40f9ee20caed

Availability zone : 1

Tags (edit) : Add tags

Operating system : Windows (Windows Server 2019 Datacenter)

Size : Standard B2s (2 vcpus, 4 GiB memory)

Public IP address : 20.93.20.186

Private IP address : 10.0.0.4

Virtual network/subnet : VM-vnet/default

DNS name : Not configured

Health state : -

JSON View

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name : VM

Operating system : Windows (Windows Server 2019 Datacenter)

Image publisher : MicrosoftWindowsServer

Image offer : WindowsServer

Image plan : 2019-datacenter-gensecond

VM generation : V2

VM architecture : x64

Agent status : Ready

Agent version : 2.7.41491.1102

Hibernation : Disabled

Host group : -

Host : -

Proximity placement group : -

Colocation status : N/A

Networking

Public IP address : 20.93.20.186 (Network interface vm17_x1)

Public IP address (IPv6) : -

Private IP address : 10.0.0.4

Private IP address (IPv6) : -

Virtual network/subnet : VM-vnet/default

DNS name : Configure

Size

Size : Standard B2s

vCPUs : 2

RAM : 4 GiB

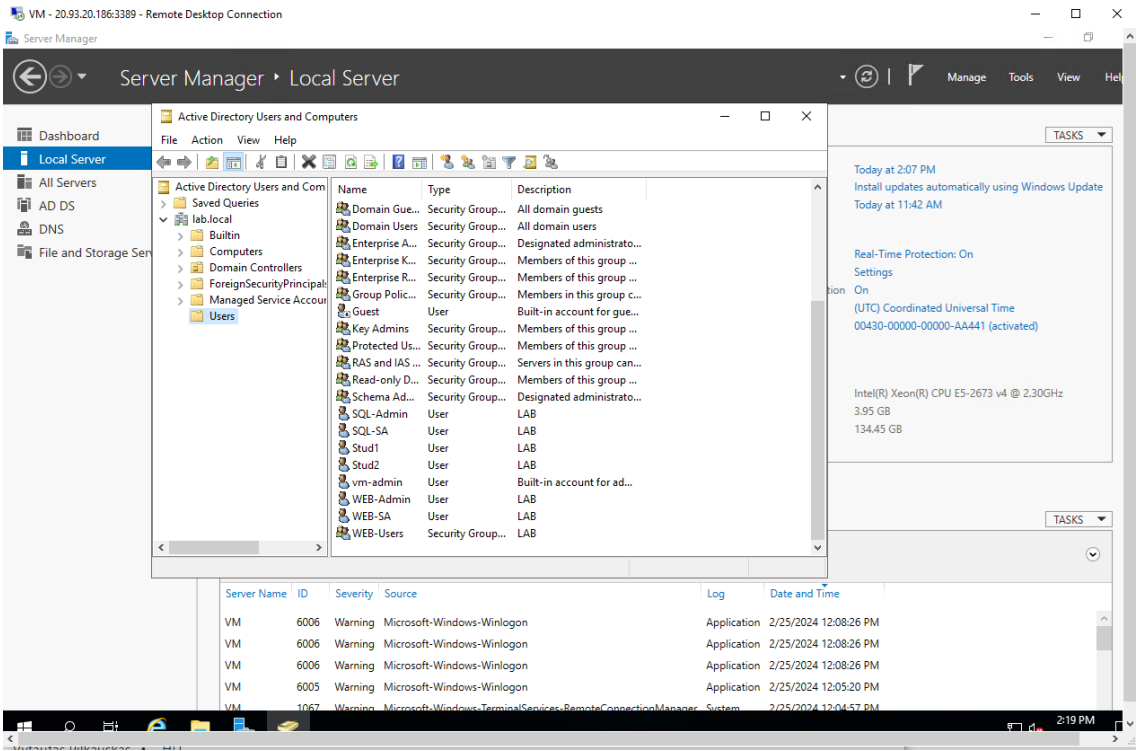
Disk

OS disk : VM_OsDisk_1_3b6a9899878f449fb5512f147cd1bb08

Encryption at host : Disabled

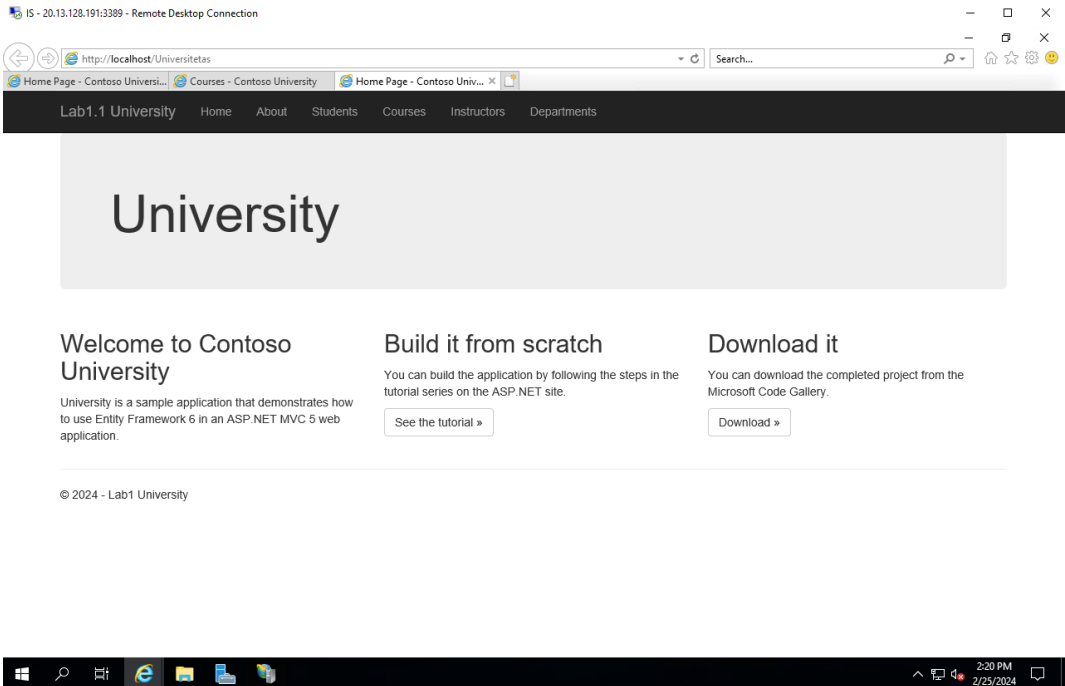
pav. 4 VM virtualios mašinos parametrai

[Pav. 5] Galime matyti domene esančių naudotojų sąrašą ir duoto kodo sugeneruotus ir pridėtus naudotojus, taip kaip buto pateikta laboratorinio darbo prašyme.



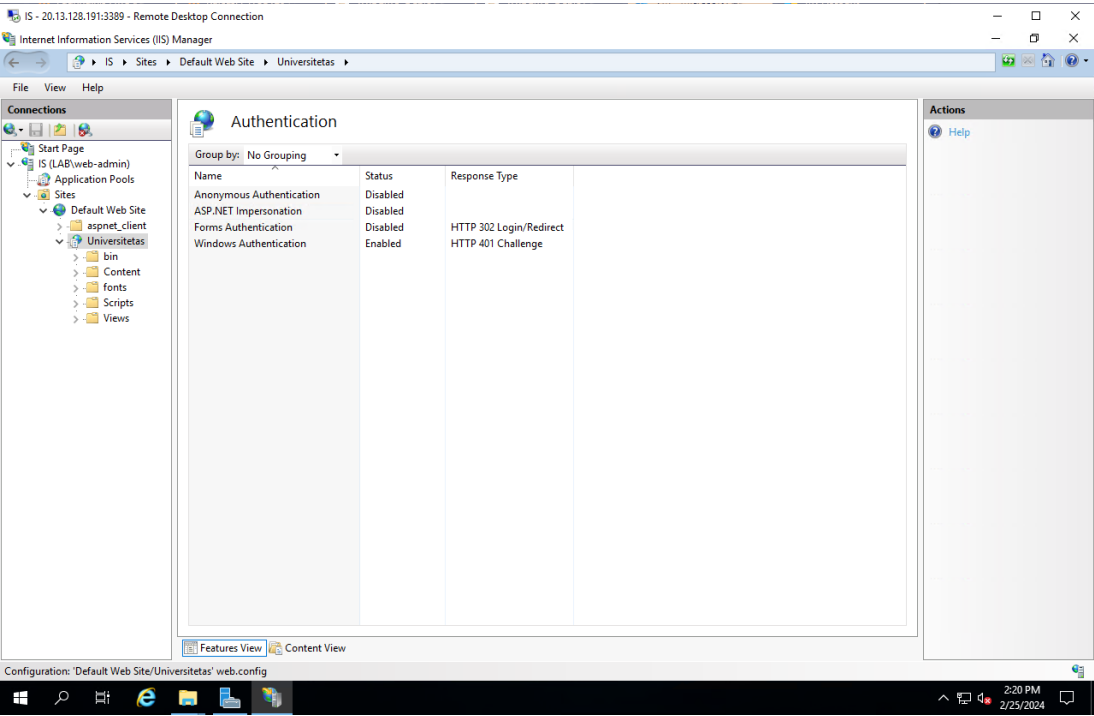
pav. 5 Domene esančių naudotojų sąrašas

[Pav. 6] Galime matyti jau pilnai sutvarkytą WEB serverį. Su domenu ir sql sistema.



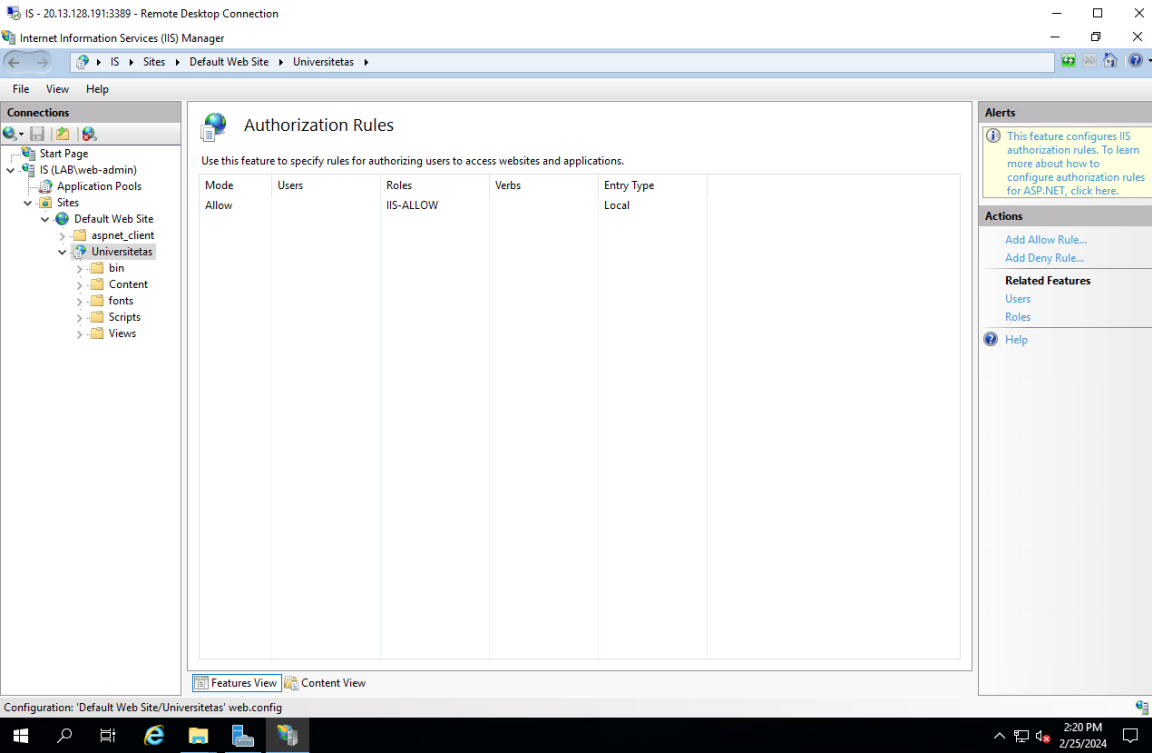
pav. 6 Pilnai sutvarkyto WEB serverio aplikacija

[Pav. 7] Galime matyti WEB serverio naudojamą autentifikacijos metodą(Windows Authentification).



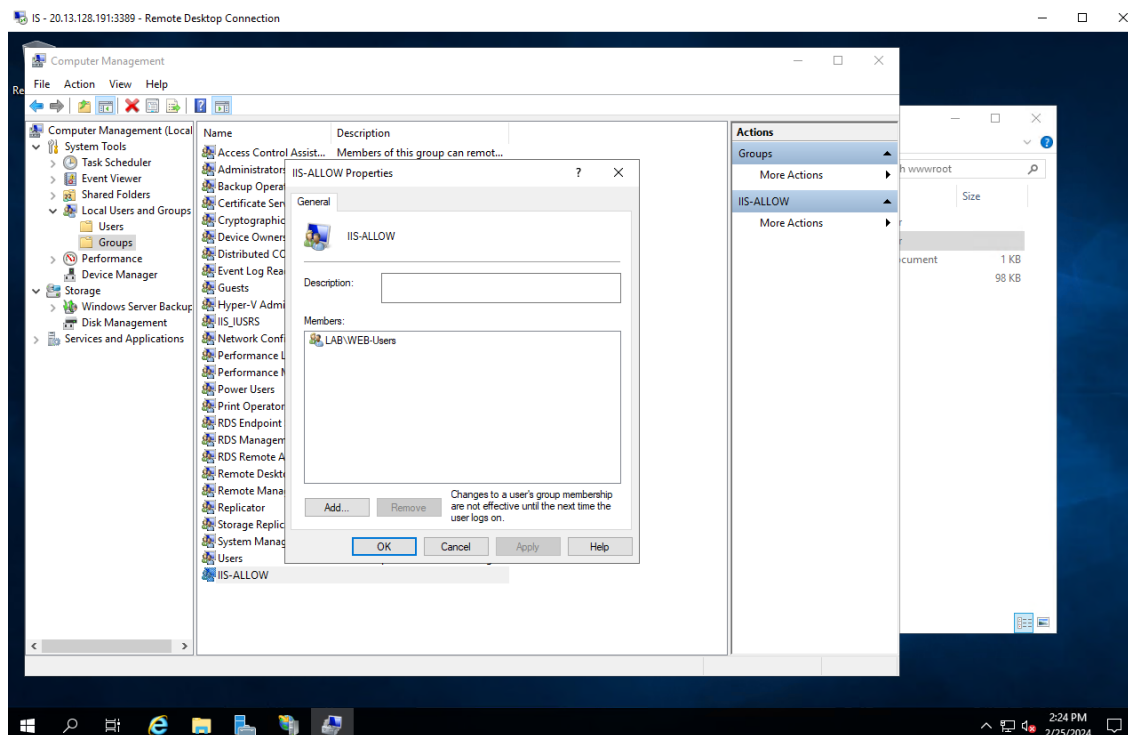
pav. 7 Web serverio naudojamas autentifikacijos metodas

[Pav. 8] Galime matyti autentifikacijos taisykles, kurios sutampa su duota laboratorinio medžiaga.



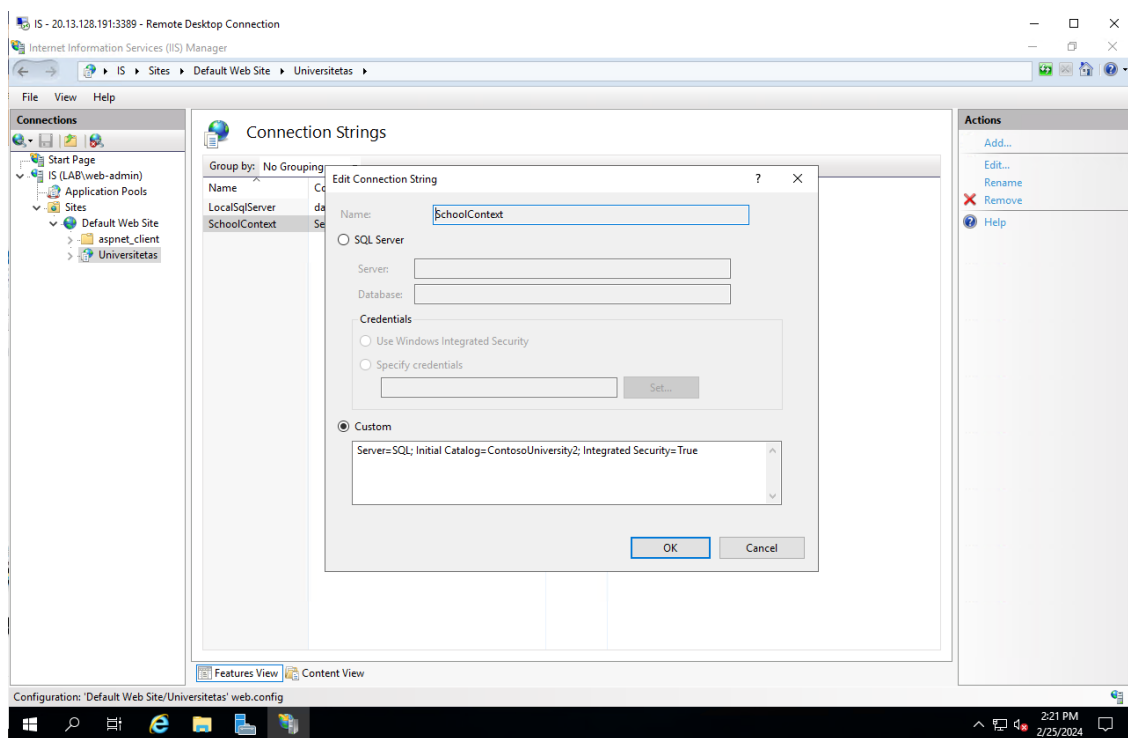
pav. 8 Autentifikacijos naudojamos taisyklės.

[Pav. 9] Galime matyti naudotojų grupę, kuri buvo naudota autentifikacijos taisyklėms sudaryti.

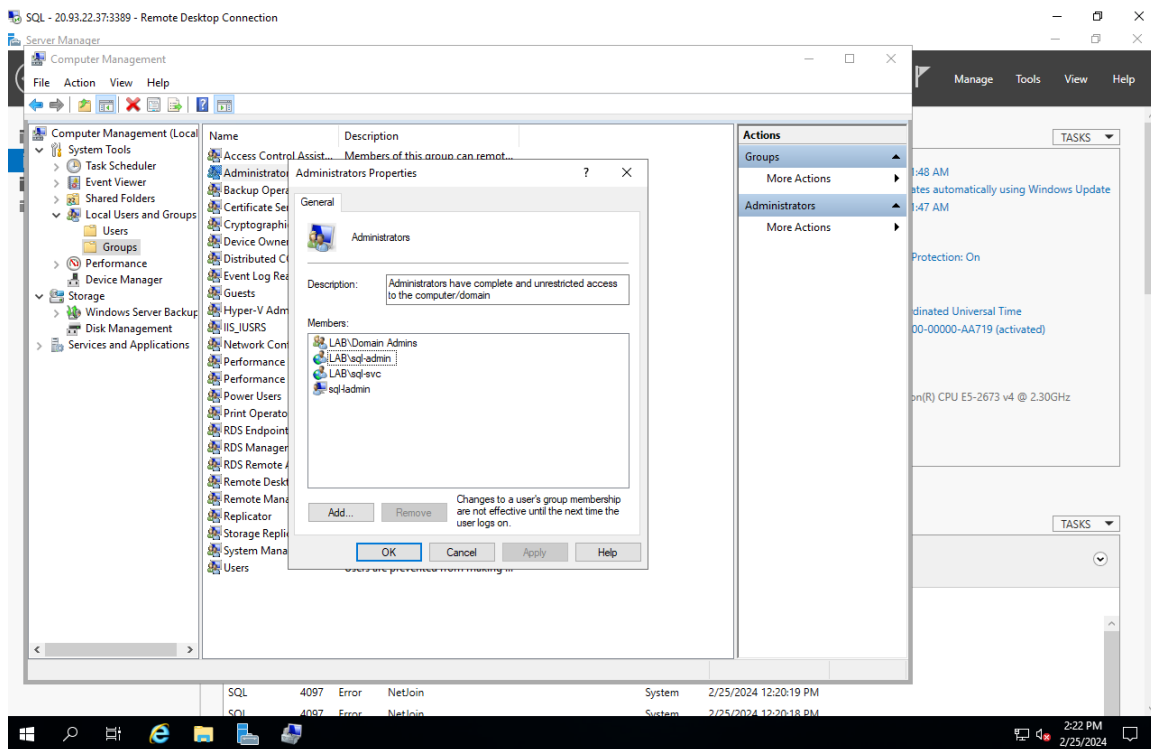


pav. 9 Naudotojų grupė, kuri buvo naudota autentifikacijos taisyklėms sudaryti.

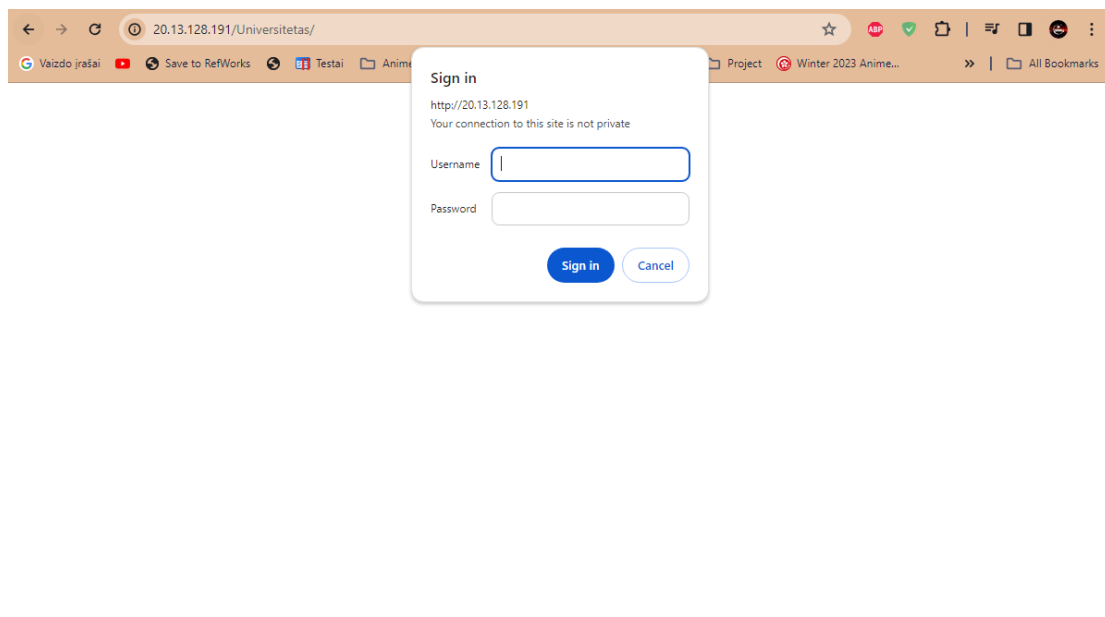
[Pav. 10] Connection string, naudojamas pasiekti SQL duomenų bazę.



pav. 10 Connection string, naudojamas pasiekti SQL duomenų bazę.



pav. 11 SQL virtualios mašinos administratorių sąrašas.



pav. 12 Prisijungimas prie web svetainės naudojant windows authentication.

Lab11NedasLiaudanskis Resource group

Search

Overview

- Activity log
- Access control (IAM)
- Tags
- Resource visualizer
- Events

Settings

- Deployments
- Security
- Deployment stacks
- Policies
- Properties
- Locks

Cost Management

- Cost analysis
- Cost alerts (preview)
- Budgets
- Advisor recommendations

Monitoring

- Insights (preview)
- Alerts

Essentials

Subscription (move): [Azure for Students](#) Deployments: [3 Succeeded](#)

Subscription ID: 378d407a-71db-4cc4-9eb8-40f3ee20caed Location: North Europe

Tags (edit) : [Add tags](#)

Resources Recommendations

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 16 of 16 records. Show hidden types No grouping List view

Name	Type	Location
IS	Virtual machine	North Europe
IS-ip	Public IP address	North Europe
IS-nsg	Network security group	North Europe
is359_z1	Network Interface	North Europe
IS_disk1_a5085855589c4da29488caa3eb17c56c	Disk	North Europe
SQL	Virtual machine	North Europe
SQL-ip	Public IP address	North Europe
SQL-nsg	Network security group	North Europe
sql579_z1	Network Interface	North Europe
SQL_OsDisk_1_1c1f00d90c8648cf9bb3c61650ccbb43	Disk	North Europe

< Previous Page 1 of 1 Next >

Give feedback

pav. 13 visa pirmo 1.1 laboratorinio dalies sukurta biblioteka

Lab 1.2 Dalis

Šioje dalyje reikės aplikaciją įkelti į Azure, App Service. Tai jau integruotas diegimas, kuriame reikia mažiau konfigūracijos ir laiko, didžioji dalis šios aplikacijos bus sugeneruota ir paruošta Azure App service platformos. App Service sukūrimas iš duotos programos [Pav. 14].

ContosoUniversity.Publish index.cshtml

Lab12NedasLiaudanskisUniversity2024 - Web Deploy.pubxml

Azure App Service (Windows)

Publish

Published on 2024-02-26 at 18:02. Open site

Settings

Site URL: <https://lab12nedasliaudanskisuniversity2024.azurewebsites.net/>

Configuration Release

Show all settings

Hosting

Subscription: 378d407a-71db-4cc4-9eb8-40f3ee20caed

Resource group: Lab12

Resource name: Lab12NedasLiaudanskisUniversity2024

Site: <https://lab12nedasliaudanskisuniversity2024.azurewebsites.net/>

Service Dependencies

Azure SQL Database: ContosoUniversity_db

Connection string name: SchoolContext

Configured

Solution Explorer

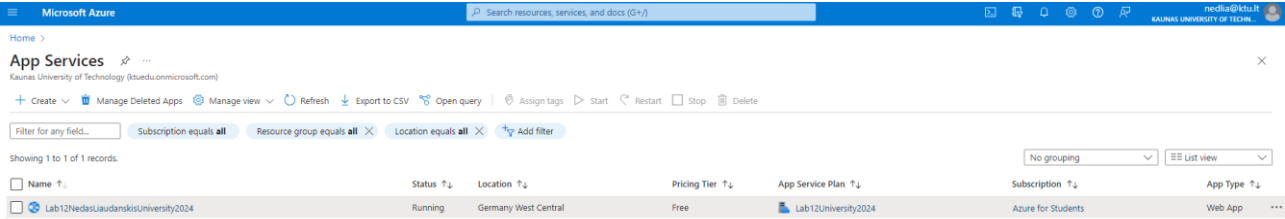
ContosoUniversity

- Properties
- References
- App_Data
- App_Start
- Content
- Controllers
- DAL
- Fonts
- Logging
- Migrations
- Models
- Scripts
- ViewModels
- Views
- Course
- Department
- Home
 - Index.cshtml
 - Details.cshtml
 - Create.cshtml
 - Delete.cshtml
 - Edit.cshtml
 - Index.cshtml
 - YmvoStart.cshtml
- Web.config
- favicon.ico
- Global.asax
- pentagon.config
- Project_Readme.html
- Web.config

Properties

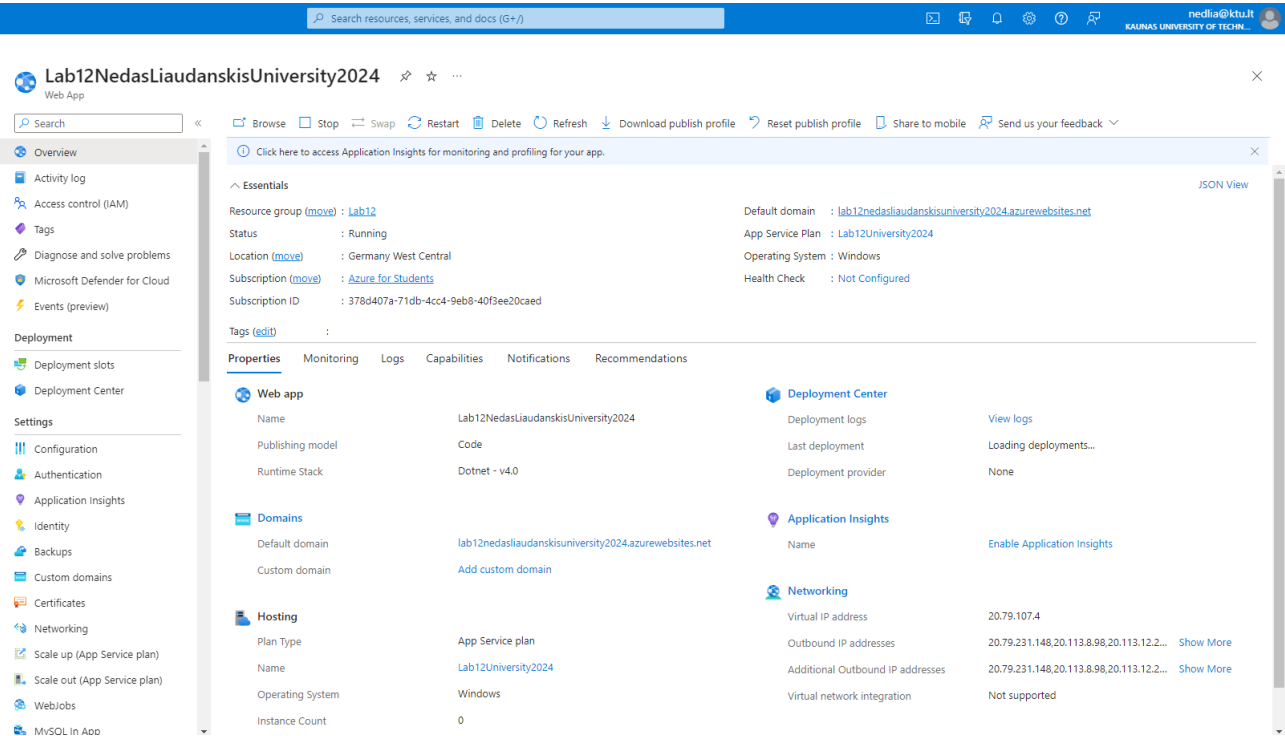
pav. 14 Sukurtas APP service ir published per Azure platforma.

[Pav. 15] Galime matyti sukurta App Service, kuris buvo sukurtas Azure platformoje po sukūrimo.



Name	Status	Location	Pricing Tier	App Service Plan	Subscription	App Type
Lab12NedasLiaudanskisUniversity2024	Running	Germany West Central	Free	Lab12University2024	Azure for Students	Web App

pav. 15 Sukurtas App Service



Web app	Deployment Center	Application Insights	Networking
Name: Lab12NedasLiaudanskisUniversity2024	Deployment logs: View logs	Name: Enable Application Insights	Virtual IP address: 2079.107.4
Publishing model: Code	Last deployment: Loading deployments...		Outbound IP addresses: 2079.231.148.20.113.8.98.20.113.12.2... Show More
Runtime Stack: Dotnet - v4.0	Deployment provider: None		Additional Outbound IP addresses: 2079.231.148.20.113.8.98.20.113.12.2... Show More
			Virtual network integration: Not supported

pav. 16 App service detalės ir informacija

[Pav. 18] Po įdiegimo atidaryta svetainė, jau su veikiančia duomenų baze.

← → ↻ lab12nedasliaudanskisuniversity2024.azurewebsites.net/Course

Valdo įrašai Save to RefWorks Testai Anime one pei ce (1311) Songs - YouT... YouTube Project Winter 2023 Anime... New anime Watch Cartoons an... Parasyte -the masi... Python Module Ind... PyPI - The Python Pa... MEGA All Bookmarks

Lab1.1 University Home About Students Courses Instructors Departments

Courses

Create New

Select Department: All Filter

Number	Title	Credits	Department	
1045	Calculus	4	Mathematics	Edit Details Delete
1050	Chemistry	3	Engineering	Edit Details Delete
2021	Composition	3	English	Edit Details Delete
2042	Literature	4	English	Edit Details Delete
3141	Trigonometry	4	Mathematics	Edit Details Delete
4022	Microeconomics	3	Economics	Edit Details Delete
4041	Macroeconomics	3	Economics	Edit Details Delete

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pav. 17 Atidaryta po įdiegimo svetainė

Lab12

Resource group

Search

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Deployment stacks

Policies

Properties

Locks

Cost Management

Cost analysis

Cost alerts (preview)

Budgets

Advisor recommendations

Monitoring

Insights (preview)

Alerts

Metrics

Diagnostic settings

+ Create

Manage view

Delete resource group

Refresh

Export to CSV

Open query

Assign tags

Move

Delete

Export template

Open in mobile

Essentials

Subscription (move) : [Azure for Students](#)

Subscription ID : 378d407a-71db-4cc4-9eb8-40f3ee20caed

Tags (edit) : [Add tags](#)

Deployments : [2 Succeeded](#)

Location : Germany West Central

Resources

Recommendations

Filter for any field...

Type equals all

Location equals all

Add filter

Showing 1 to 4 of 4 records.

Show hidden types

No grouping

List view

Name	Type	Location
<input type="checkbox"/> ContosoUniversity_db (lab12universitydbserver/ContosoUniversity_db)	SQL database	Germany West Central
<input type="checkbox"/> Lab12NedasLiaudanskisUniversity2024	App Service	Germany West Central
<input type="checkbox"/> Lab12University2024	App Service plan	Germany West Central
<input type="checkbox"/> lab12universitydbserver	SQL server	Germany West Central

< Previous

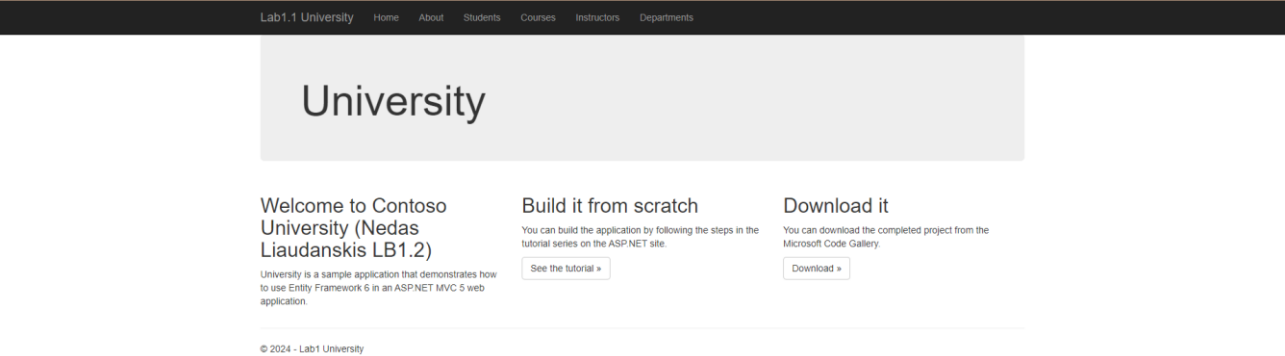
Page 1 of 1

Next >

Give feedback

pav. 18 Visos 1.2 dalies sukurti elementai.

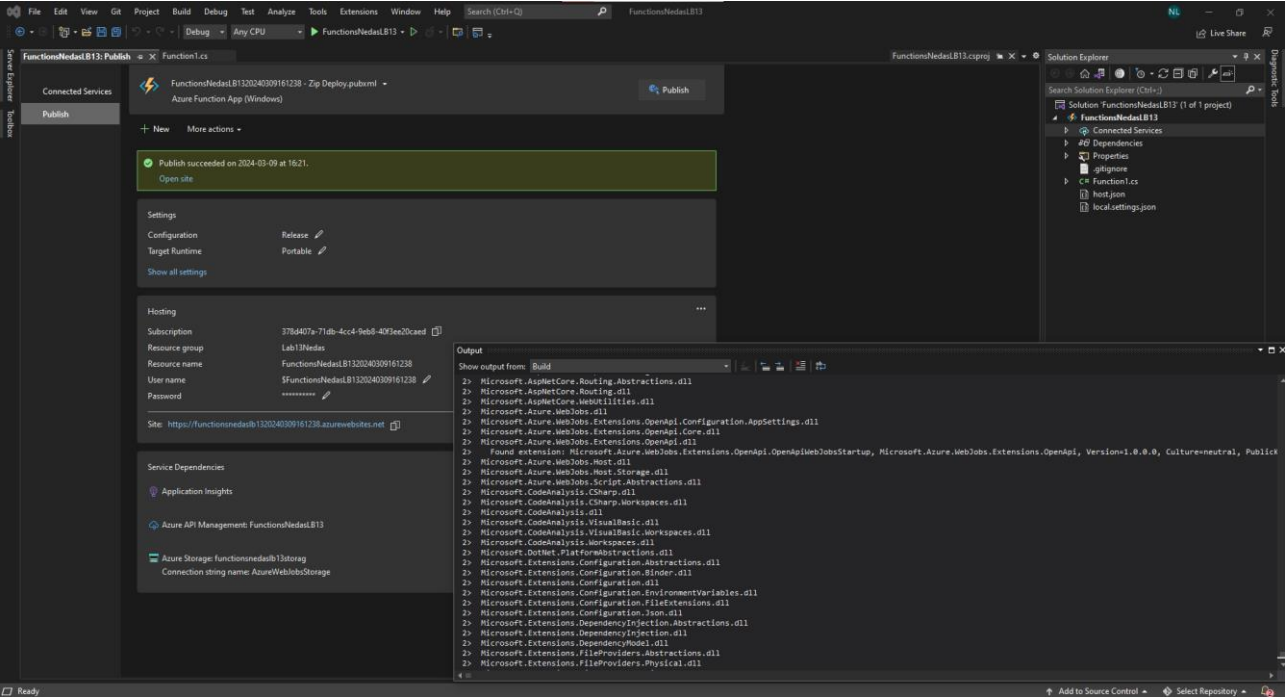
[Pav. 19] Atvaizduoja pagrindinį svetainės puslapį, su mano vardu.



pav. 19 Svetainė su mano vardu.

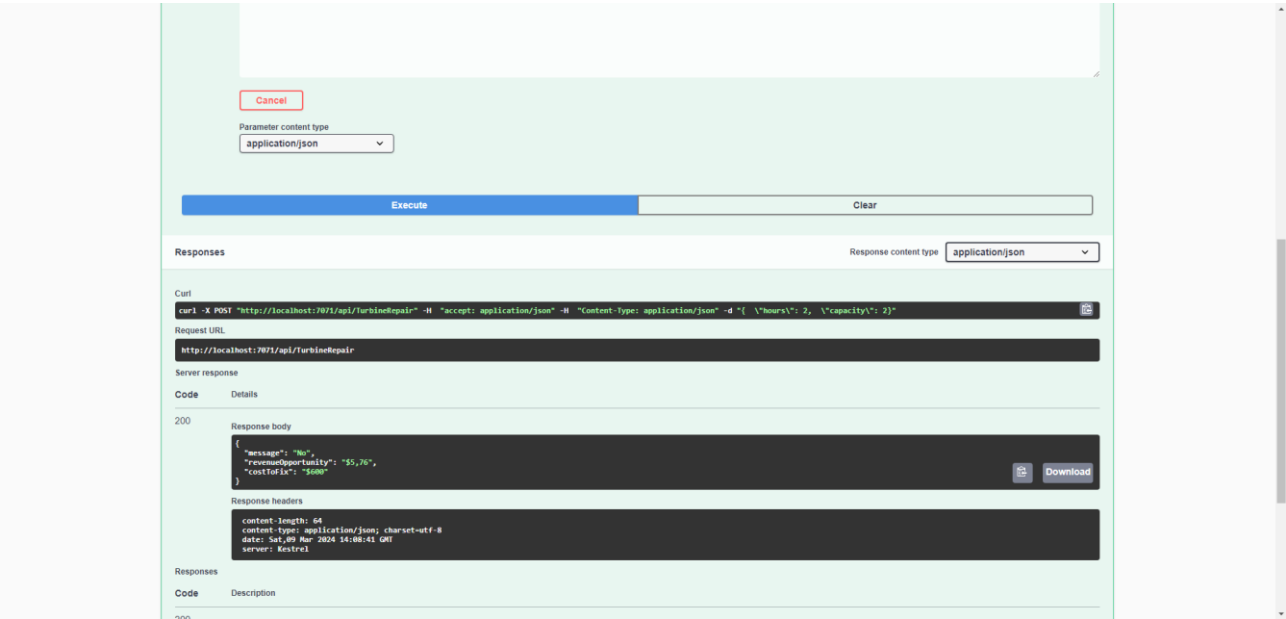
Lab 1.3 Dalis

Šioje laboratorini dalyje, reikės sukurti funkciją, naudojant Azure Function app, kuris leis mums atlikti užklausas ir gauti atsakymus iš mūsų funkcijos. Sukurtą Azure Function App galite matyti [Pav. 20]

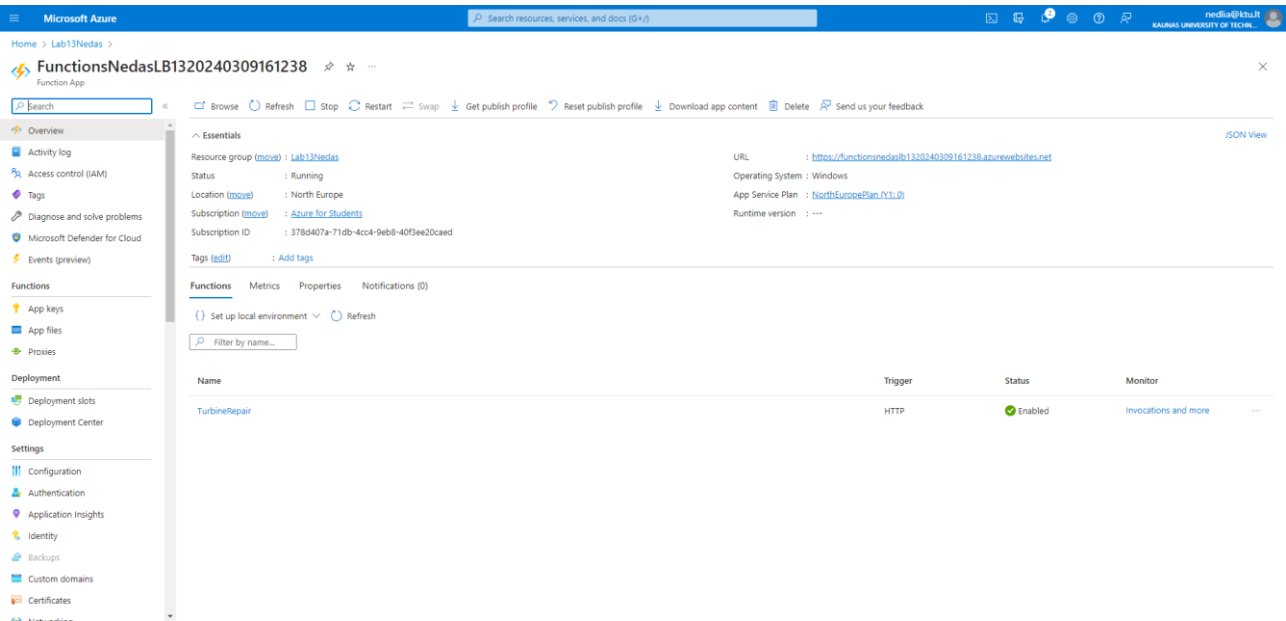


pav. 20 Sukurtas ir įdiegtas, Azure Funtion App

Lokaliai paleistos funkcijos API užklauso įvedimas ir gautas atsakymas [Pav. 21]. Parodo, jog kodas ir programa gali lokaliai veikti.



pav. 21 Lokaliai paleistos funkcijos atsakymas į užklausą.



pav. 22 Sukurtos Function App aplikacijos informacija

Microsoft Azure

Home > Lab13Nedas > FunctionsNedasLB1320240309161238 >

TurbineRepair
Function

Search resources, services, and docs (0+)

Enable Disable Delete Get Function URL Refresh

Overview

Developer

- Code + Test
- Integration
- Monitor
- Function Keys

Application insights: [Setup](#)

JSON View

Essentials

Resource group (move) : [Lab13Nedas](#)

Location : North Europe

Subscription (move) : [Azure for Students](#)

Subscription ID : 3780407a-71db-4cc4-9eb8-40f3ee20caed

Function app : [-](#)

Tags (edit) : [Add tags](#)

[See more](#)

<https://portal.azure.com/#>

pav. 23 Pačios funkcijos informacija.

Microsoft Azure

Home >

FunctionsNedasLB13api
API Management service

Search resources, services, and docs (0+)

Delete Open in mobile

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Events

Settings

- Platform migration
- Properties
- Locks
- APIs
- Products
- Subscriptions
- Named values
- Backends
- Policy fragments
- API Tags
- Schemas
- Credential manager
- Power Platform
- OAuth 2.0 + OpenID Connect

JSON View

Essentials

Resource group (move) : [Lab13Nedas](#)

Status : Online

Location : North Europe

Subscription (move) : [Azure for Students](#)

Subscription ID : 3780407a-71db-4cc4-9eb8-40f3ee20caed

Tags (edit) : [Add tags](#)

Gateway URL : <https://functionsnedaslb13api.azure-api.net>

Tier : Consumption

Platform version : mtr1

Properties Get started Learn more Monitor Recommendations (0)

Pricing tier

Pricing tier	Consumption
SLA	Yes
Scale	0 units

External cache

External cache	None
----------------	------

Custom domains

Gateway URL	https://functionsnedaslb13api.azure-api.net
Management URL	View all

Microsoft Defender for Cloud

Enabled	No
Security alerts	-
Recommendations	-

Identities

Identities

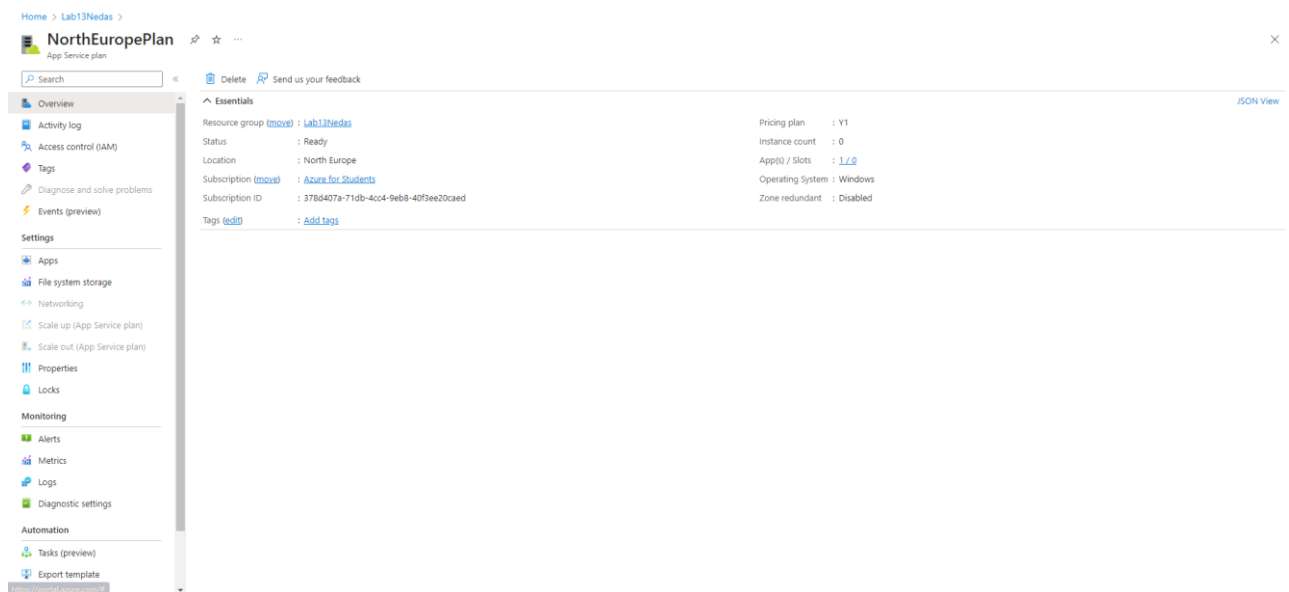
APIs

Total APIs	1
Current APIs	1
Revisions	0

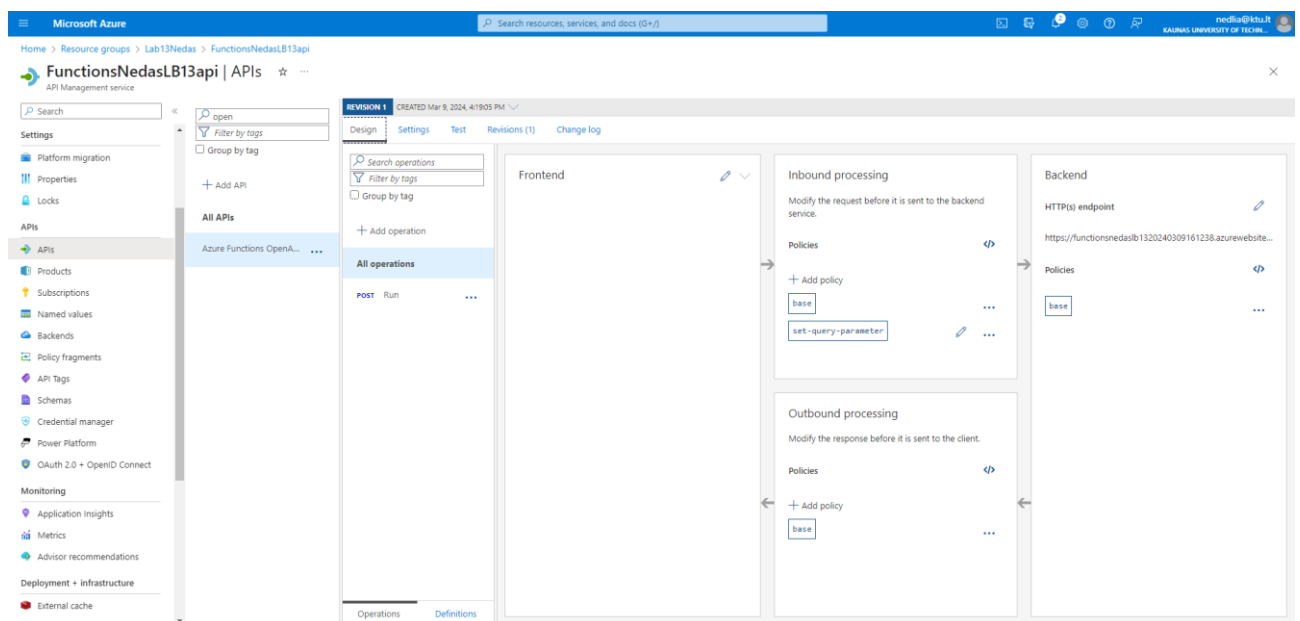
Subscriptions

Subscriptions	1
---------------	---

pav. 24 Funkcijos API Management Service informacija



pav. 25 App Service Plan



pav. 26 Azure Function App testavimas, Azure platformoje, po modifikuotų policy.

Microsoft Azure

Home > Resource groups > Lab13Nedas > FunctionsNedasLB13api

FunctionsNedasLB13api | APIs

API Management service

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Settings

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APIs

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Monitoring

- Application Insights
- Metrics
- Advisor recommendations

Deployment + infrastructure

- External cache

open

Filter by tags

Group by tag

+ Add API

All APIs

Azure Functions OpenA...

REVISION 1 CREATED Mar 9, 2024, 4:19:05 PM

Design Settings Test Revisions (1) Change log

Azure Functions OpenAPI Extensi... > Run > Console

NAME	VALUE	TYPE	DESCRIPTION
Content-Type	application/json	string	Additional header.

Request body

Raw Binary Generate definition

```
1 {"hours":0,"capacity":0}
```

Apply product scope

No products

Request URL

https://functionsnedaslb13api.azure-api.net/TurbineRepair

HTTP request

POST https://functionsnedaslb13api.azure-api.net/TurbineRepair HTTP/1.1
Host: functionsnedaslb13api.azure-api.net
Content-Type: application/json
{ "hours":0, "capacity":0 }

Send Trace Bypass CORS proxy Timeout (in seconds) 60

pav. 27 Sukurta užklausa.

Deja po viso šios programos diegimo, gautas atsakymas iš API Management service buvo neteisingas. Tiksliai negaliu pasakyti, kur ir kokią klaidą padariau. [Pav. 28]

Home > Lab13Nedas > FunctionsNedasLB13api

FunctionsNedasLB13api | APIs

API Management service

Search

Overview

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- API Tags
- Schemas
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Search APIs

Filter by tags

Group by tag

+ Add API

All APIs

Azure Functions OpenA...

REVISION 1 CREATED Mar 9, 2024, 4:19:05 PM

Design Settings Test Revisions (1) Change log

Azure Functions OpenAPI Extensi... > Run > Console

Apply product scope

No products

Request URL

https://functionsnedaslb13api.azure-api.net/TurbineRepair

HTTP request

POST https://functionsnedaslb13api.azure-api.net/TurbineRepair HTTP/1.1
Host: functionsnedaslb13api.azure-api.net
Content-Type: application/json
{ "hours":10, "capacity":10 }

HTTP response

Message Trace

HTTP/1.1 -1 Unknown

Request timed out. Please increase timeout limit or try again later.

Send Trace Bypass CORS proxy Timeout (in seconds) 60

pav. 28 Gautas neteisingas atsakymas.

Microsoft Azure

Search resources, services, and docs (0+)

Home > Lab13Nedas

Resource group

Search

Essentials

Subscription (move) : Azure for Students

Deployments : 3 Succeeded

Subscription ID : 378d407a-71db-4c04-9eb8-40f9ee20caed

Location : North Europe

Tags (edit) : Add tags

Resources Recommendations

Filter for any field...

Type equals all X

Location equals all X

Add filter

Showing 1 to 4 of 4 records. Show hidden types

No grouping List view

Name ↑	Type ↑	Location ↑
FunctionsNedasLB1320240309161238	Function App	North Europe
FunctionsNedasLB13api	API Management service	North Europe
functionsnedaslb13storag	Storage account	North Europe
NorthEuropePlan	App Service plan	North Europe

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Give feedback

pav. 29 Visi Laboratorinio 1.3 dalies sukurti elementai

Lab 1.4 Dalis

Naudojant Azure, šioje laboratorinio darbo dalyje reikėjo sukurti, Computer vision AI service [Pav. 30], kuri padės mums nustatyti objektus nuotraukose.

Microsoft Azure

Search resources, services, and docs (0+)

Home > Subscriptions > Subscriptions > Azure for Students | Resources >

Lab14Nedas

Computer vision

Search

Get Started

Get started with your resource in Vision Studio

Try out all Computer Vision features and build your own custom models

Go to Vision Studio

Keys and endpoint

These keys are used to access your Azure AI services API. Do not share your keys. Store them securely—for example, using Azure Key Vault. We also recommend regenerating these keys regularly. Only one key is necessary to make an API call. When regenerating the first key, you can use the second key for continued access to the service.

Show Keys

Copy to clipboard

KEY 1

KEY 2

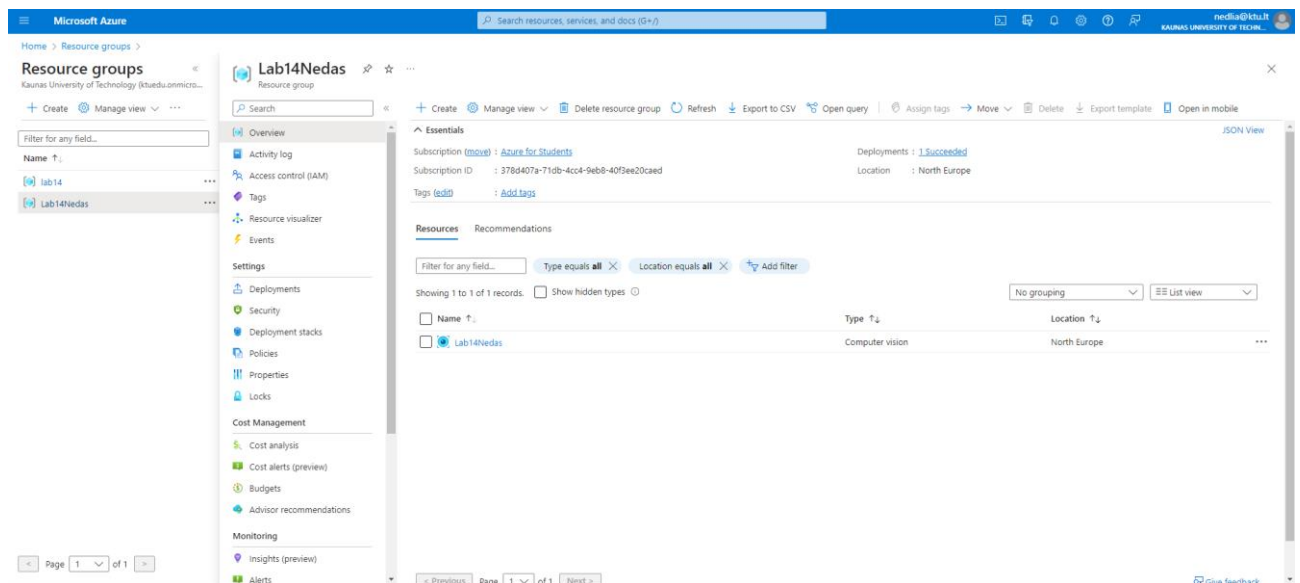
Location/Region

northeurope

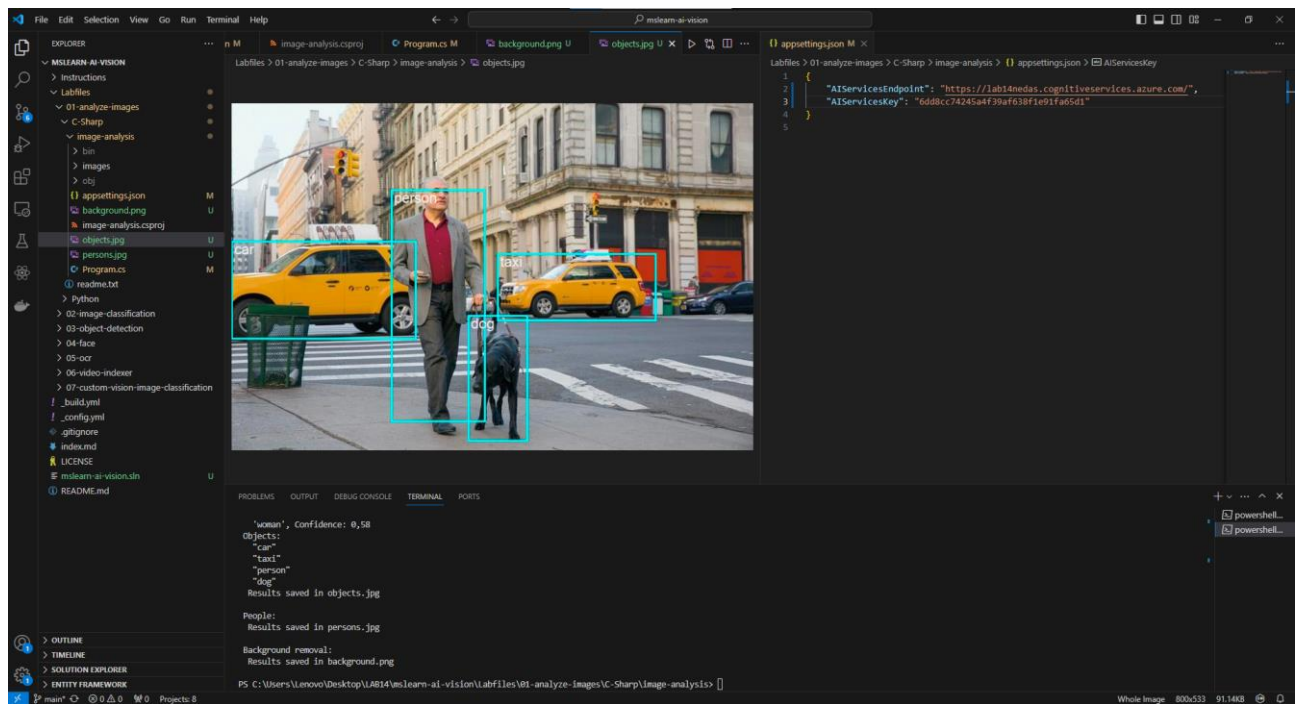
Endpoint

https://lab14nedas.cognitiveservices.azure.com/

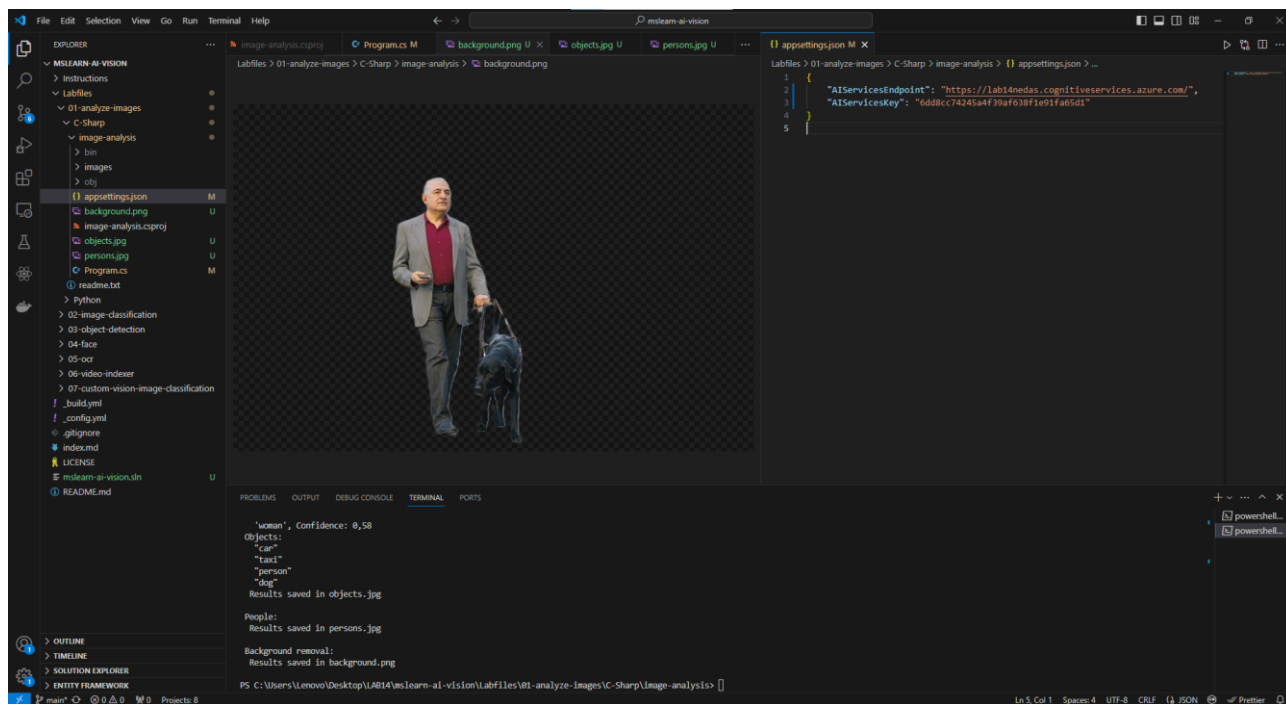
pav. 30 Sukurtos Computer Vision service informacija, kurioje galima lengvai matyti mano vardą.



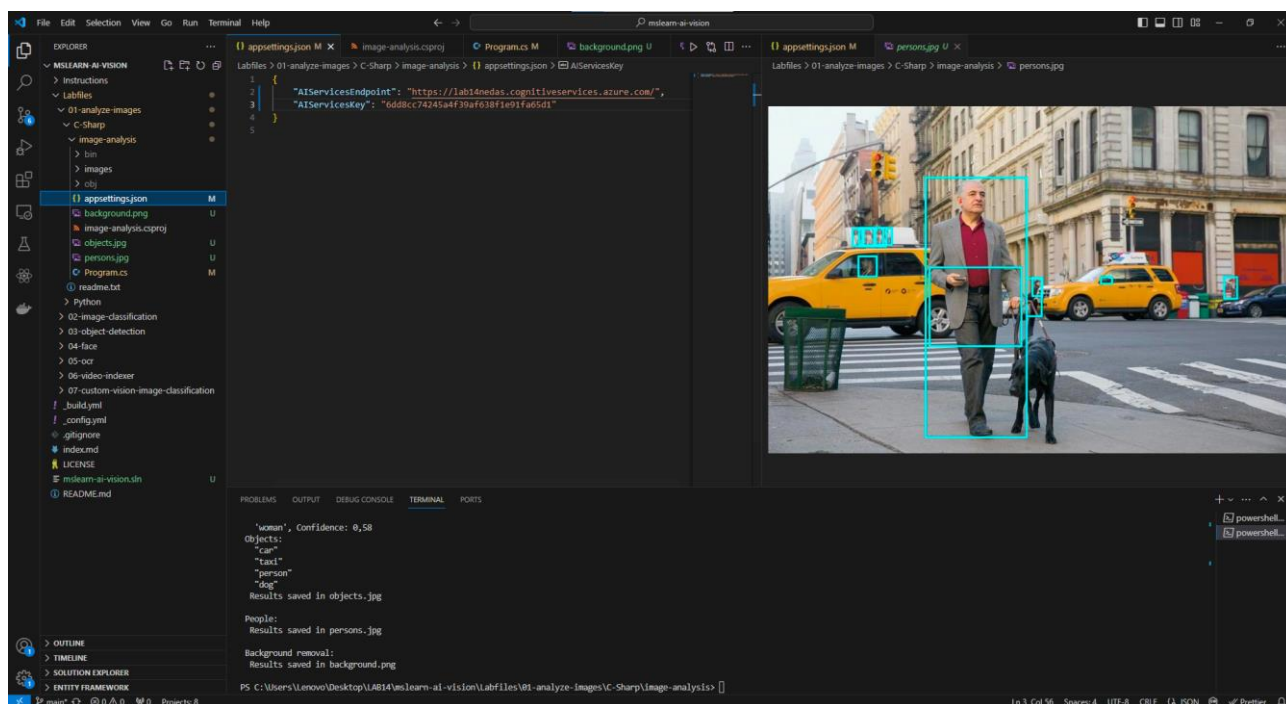
pav. 31 Šio laboratorinio dalies 1.4 visi sukurti elementai.



pav. 32 Parodomas, gautas rezultatas po programos panaudojimo.



pav. 33 Parodomas, gautas rezultatas po programos panaudojimo.



pav. 34 Parodomas, gautas rezultatas po programos panaudojimo.

Išvados

- Šiame laboratoriniame išmokau kaip reikia naudotis Azure aplinka. Joje sukūriau veikiančią svetainę su duomenų baze per virtualias mašinas.
- Antroje dalyje, pirmos dalies užduotį padariau daug lengviau, naudodamas jau sukurtą Azure App service, kuri automatiškai nustatė mano svetainę ir duomenų bazę.
- Trečios dalies nepavyko padaryti, taip kad funkcijos API užklausa veiktų Azure aplinkoje, nors ir visi failai ir elementai buvo sukurti pagal instrukciją.
- Ketvirtoje dalyje naudojome Azure aplinkos Vision AI App, kuris leido sukurti programą, kuri galėtų iš paveikslėlio atskirti joje esančius daiktus.